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
N48	30	40	DFT-PI2BPSK	L	Inner_1RB_Right	21.49	22.49	23.00	PASS

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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
N48	30	40	DFT-QPSK	M	Inner_1RB_Right	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_Right	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_Right	18.82	19.82	23.00	PASS
N48	30	40	DFT-64QAM	M	Outer_Full	18.87	19.87	23.00	PASS

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N48	30	40	DFT-256QAM	M	Inner_1RB_Left	17	18	23.00	PASS
N48	30	40	DFT-256QAM	M	Inner_1RB_Right	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_Right	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_Right	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_Right	20.42	21.42	23.00	PASS
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_Right	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_Right	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
N48	30	40	CP-QPSK	L	Inner_1RB_Right	17.18	15.98	19.63	20.63	PASS

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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_Right	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_Right	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_Right	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_Right	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_Right	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_Right	14.99	13.5	17.32	18.32	PASS
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_Right	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_Right	17.11	15.82	19.52	20.52	PASS

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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_Right	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_Right	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_Right	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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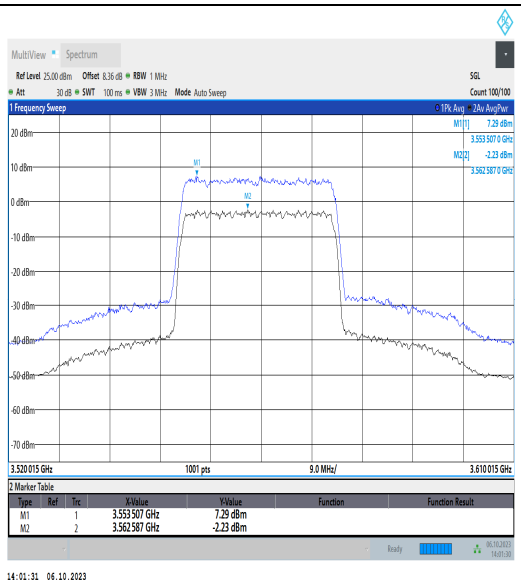
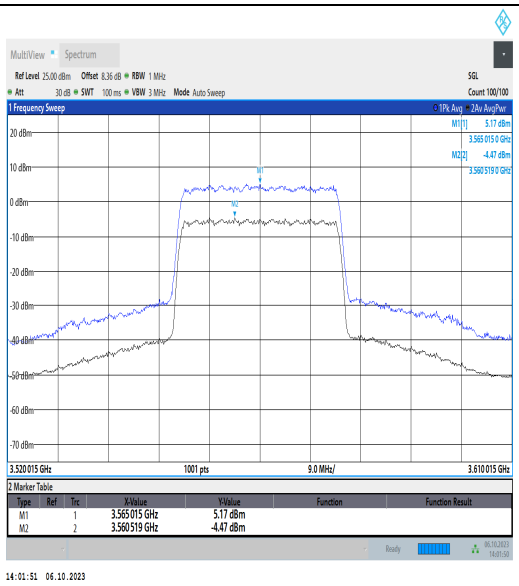
Test Graphs



NTNV_N48_PC3_30_30_L_TID1_#1



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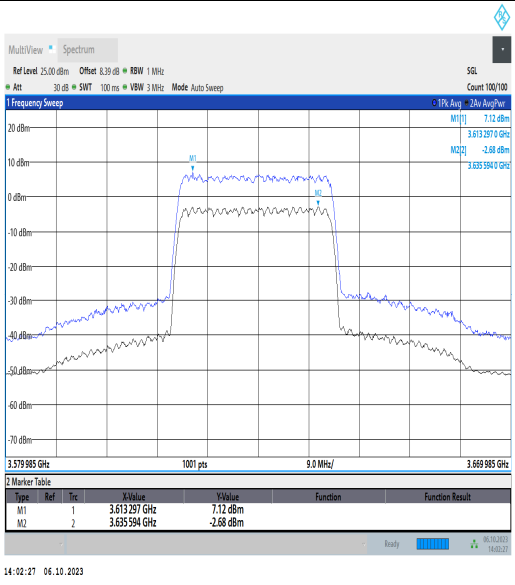

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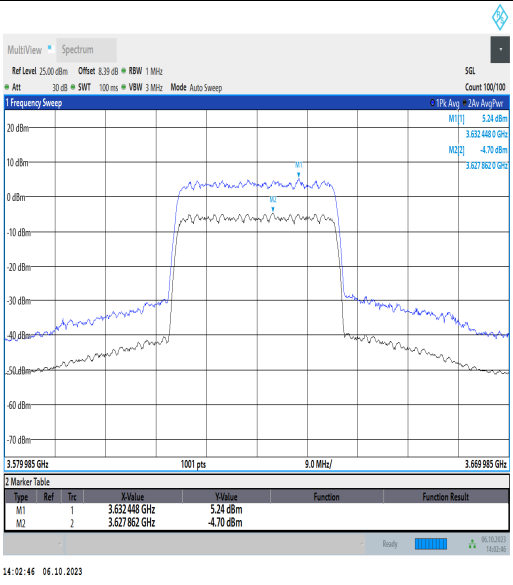

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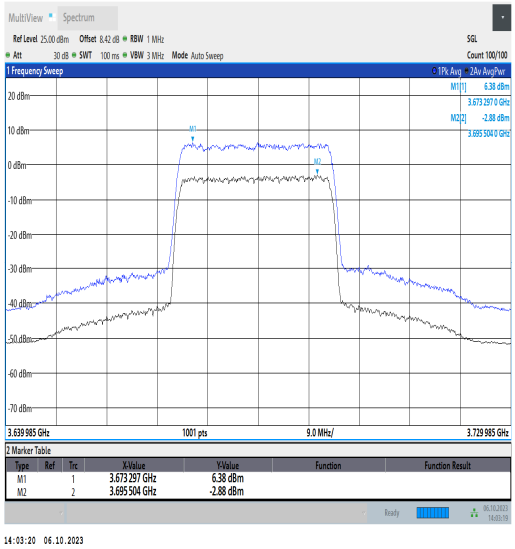

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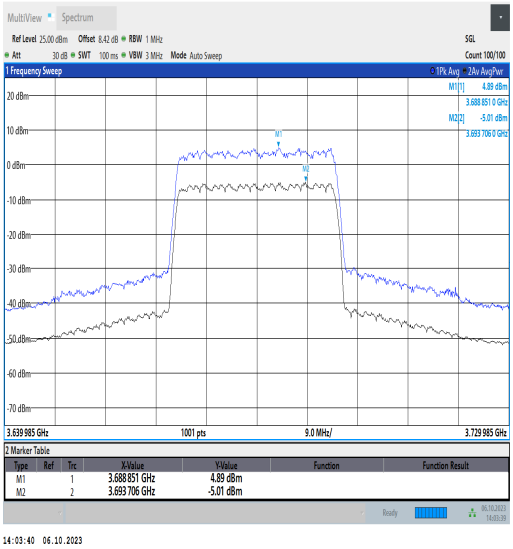

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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
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

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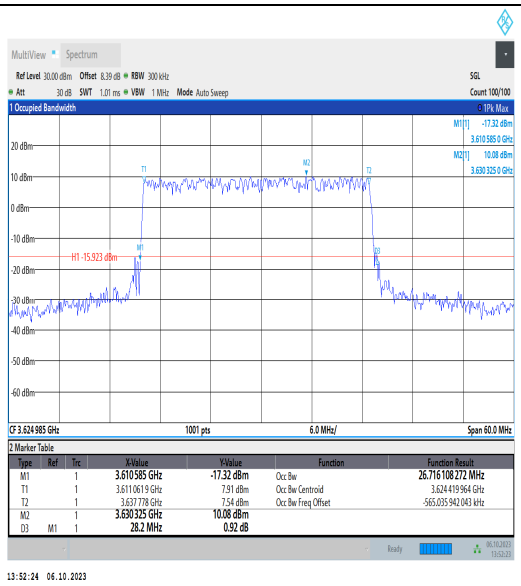
Test Graphs



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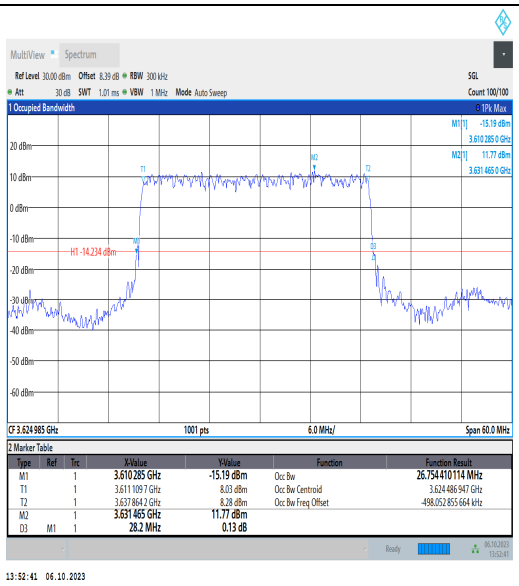

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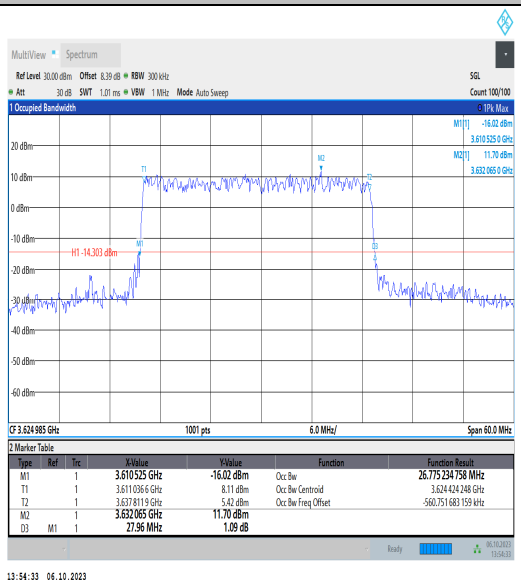

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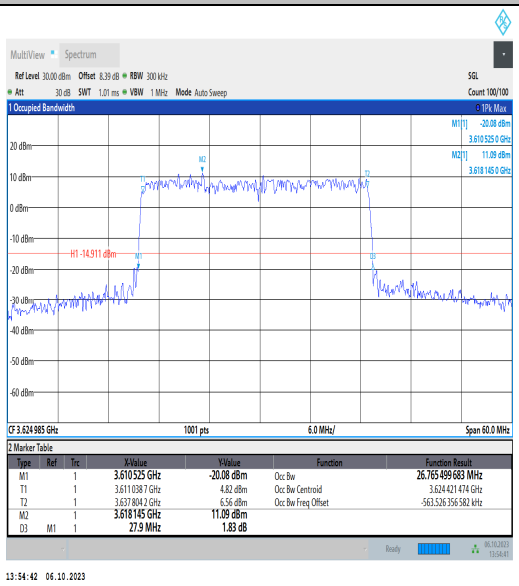

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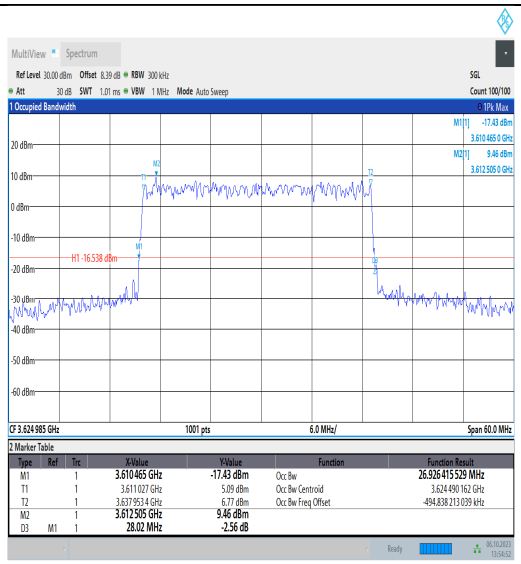

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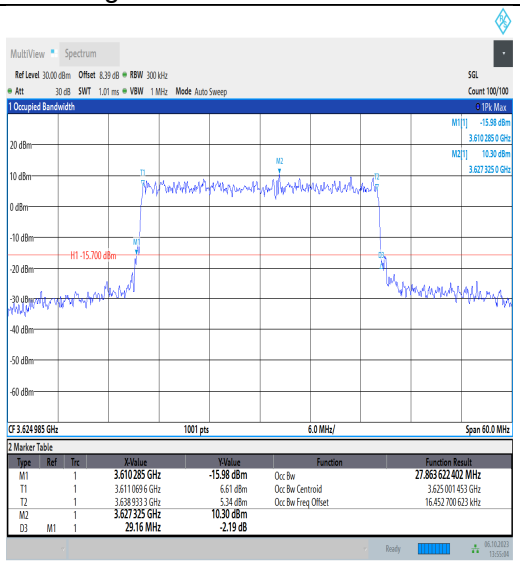

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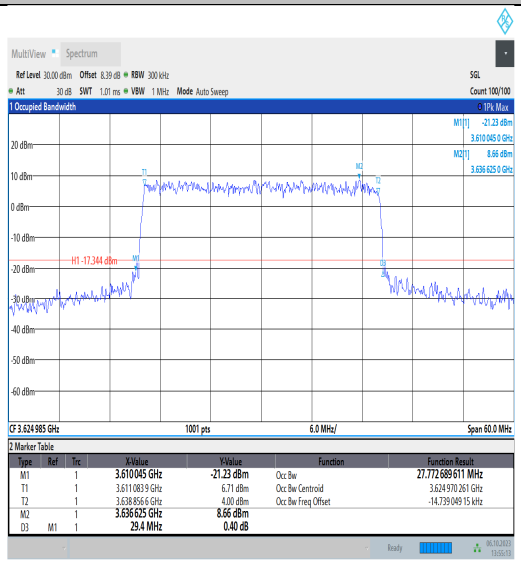

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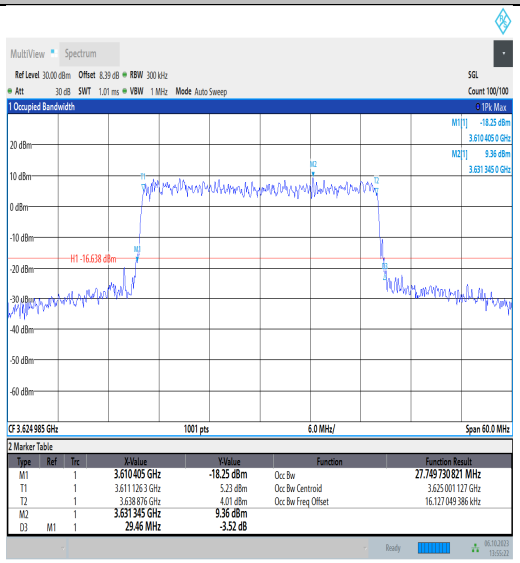

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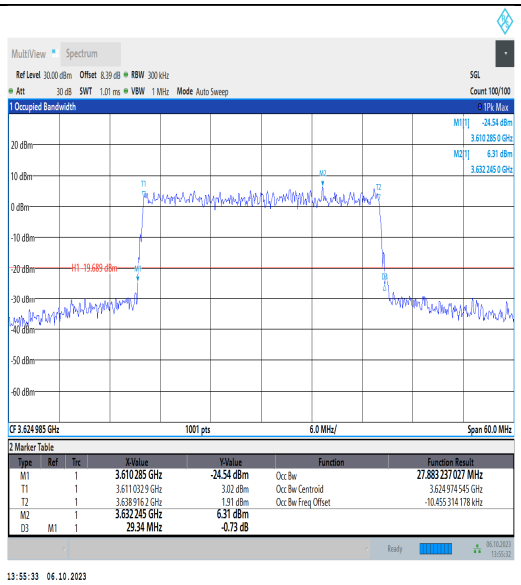

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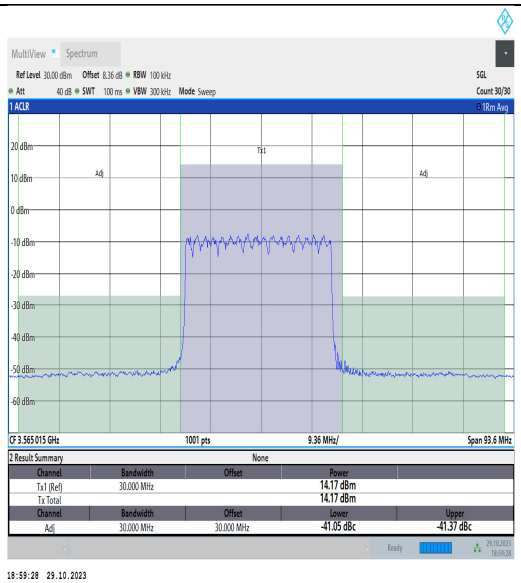
ACLR for SA

Test Graphs



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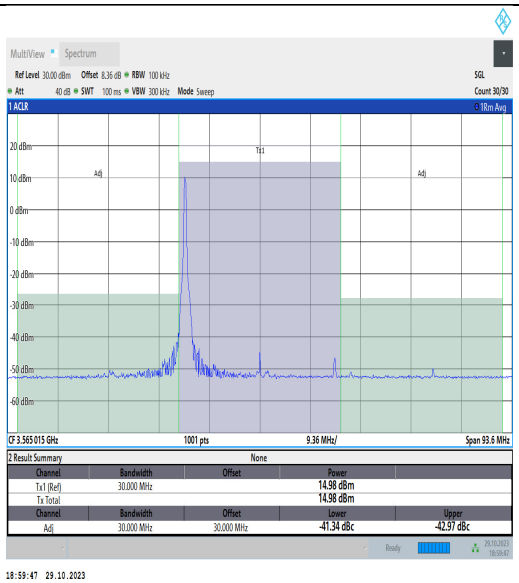

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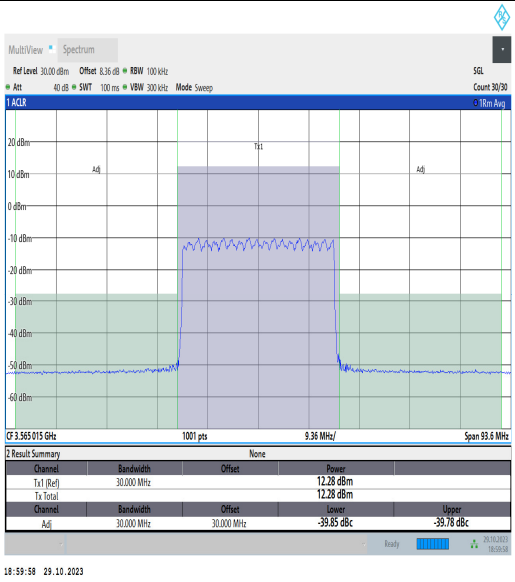

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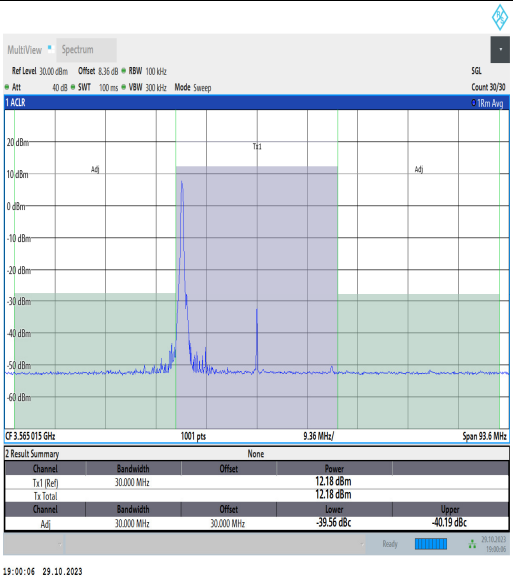

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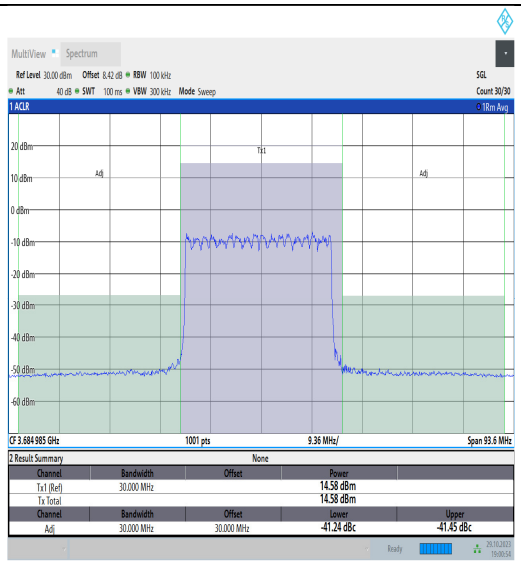

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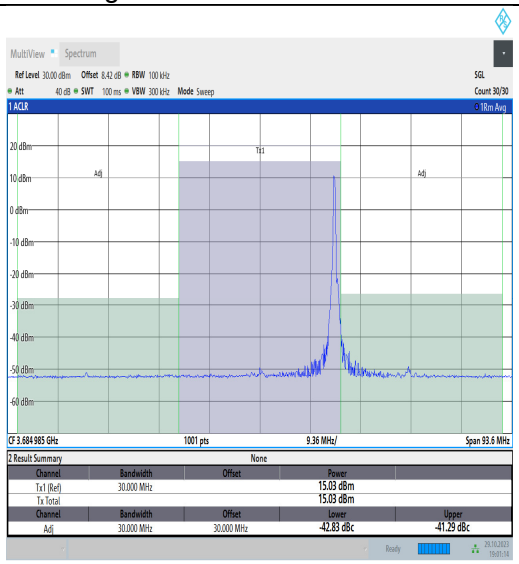

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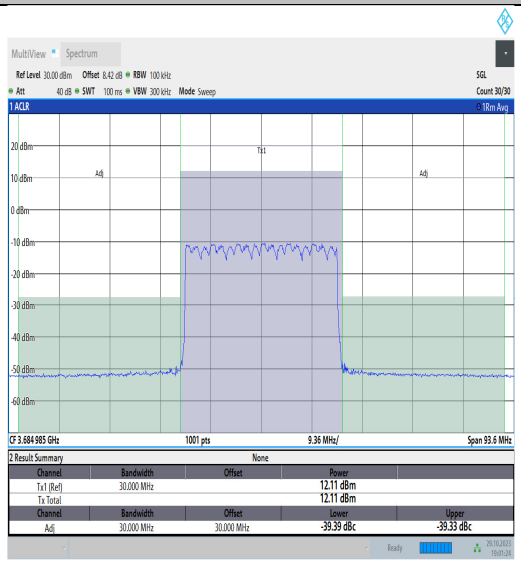

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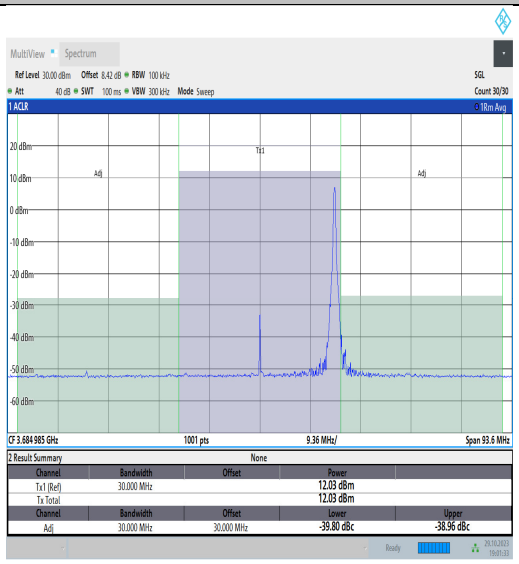

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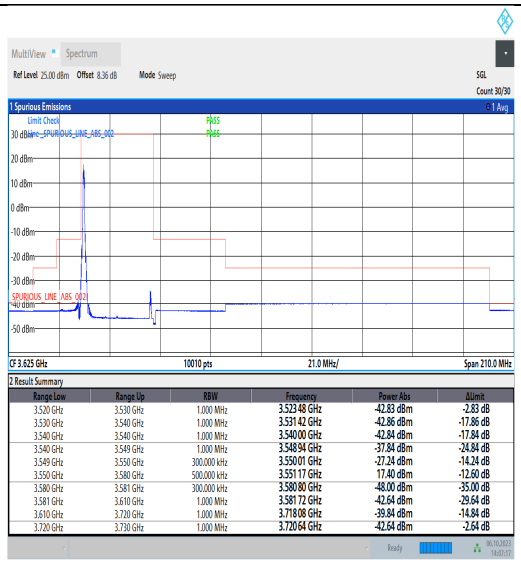
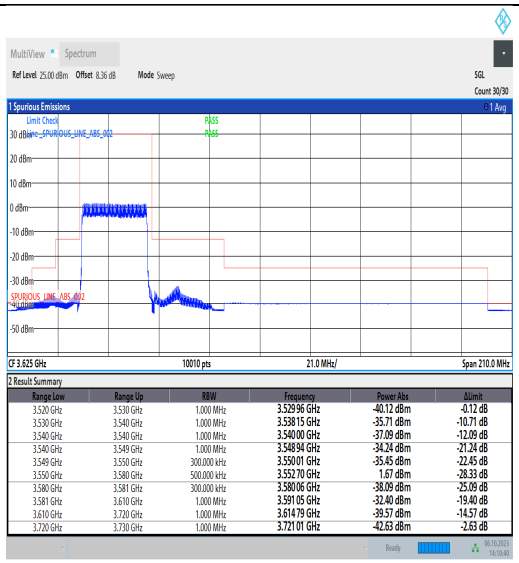
Band Edge for SA

Test Graphs



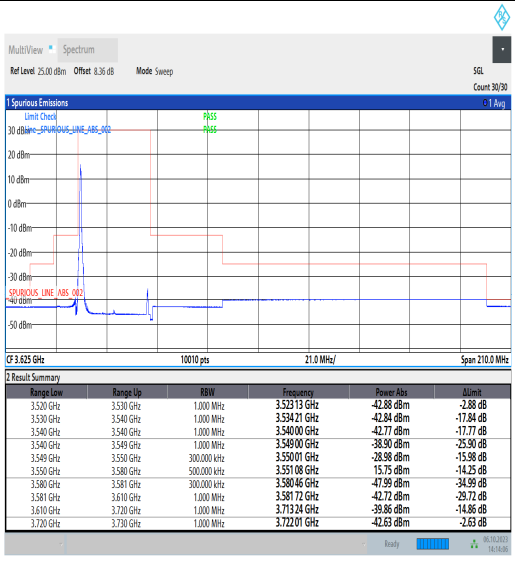
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.520 GHz	3.530 GHz	1.000 MHz	3.523 48 GHz	-42.83 dBm	-2.83 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.531 42 GHz	-42.86 dBm	-17.86 dB
3.540 GHz	3.540 GHz	1.000 MHz	3.540 00 GHz	-42.84 dBm	-17.84 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.548 94 GHz	-37.84 dBm	-24.84 dB
3.549 GHz	3.550 GHz	300.000 kHz	3.550 01 GHz	-27.24 dBm	-14.24 dB
3.550 GHz	3.580 GHz	500.000 kHz	3.551 17 GHz	17.40 dBm	-12.60 dB
3.580 GHz	3.581 GHz	300.000 kHz	3.580 80 GHz	-48.00 dBm	-35.00 dB
3.581 GHz	3.610 GHz	1.000 MHz	3.581 72 GHz	-42.64 dBm	-26.64 dB
3.610 GHz	3.720 GHz	1.000 MHz	3.718 08 GHz	-39.84 dBm	-14.84 dB
3.720 GHz	3.730 GHz	1.000 MHz	3.720 64 GHz	-42.64 dBm	-2.64 dB

NTNV_N48_PC3_30_30_L_TID1_RID1#1



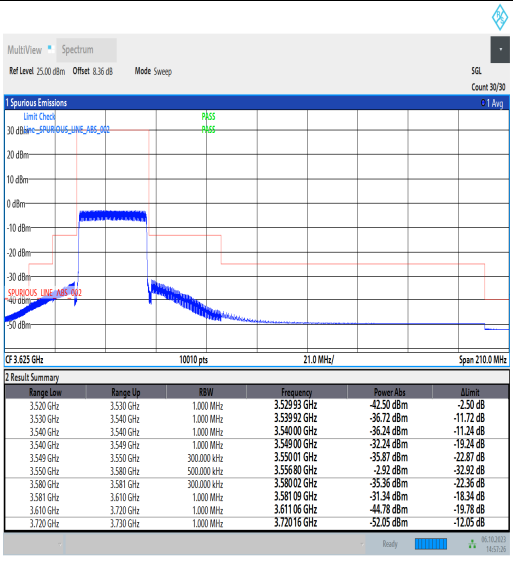
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.520 GHz	3.530 GHz	1.000 MHz	3.529 96 GHz	-40.12 dBm	-0.12 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.538 15 GHz	-35.71 dBm	-10.71 dB
3.540 GHz	3.540 GHz	1.000 MHz	3.540 00 GHz	-37.09 dBm	-12.09 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.548 94 GHz	-34.24 dBm	-21.24 dB
3.549 GHz	3.550 GHz	300.000 kHz	3.550 01 GHz	-35.45 dBm	-22.45 dB
3.550 GHz	3.580 GHz	500.000 kHz	3.552 70 GHz	1.67 dBm	-28.33 dB
3.580 GHz	3.581 GHz	300.000 kHz	3.580 06 GHz	-38.09 dBm	-25.09 dB
3.581 GHz	3.610 GHz	1.000 MHz	3.591 05 GHz	-32.40 dBm	-19.40 dB
3.610 GHz	3.720 GHz	1.000 MHz	3.614 79 GHz	-39.57 dBm	-14.57 dB
3.720 GHz	3.730 GHz	1.000 MHz	3.721 01 GHz	-42.63 dBm	-2.63 dB

NTNV_N48_PC3_30_30_L_TID3_RID1#1



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.520 GHz	3.530 GHz	1.000 MHz	3.523 13 GHz	-42.88 dBm	-2.88 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.534 21 GHz	-42.84 dBm	-17.84 dB
3.540 GHz	3.540 GHz	1.000 MHz	3.540 00 GHz	-42.77 dBm	-17.77 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.549 00 GHz	-38.90 dBm	-25.90 dB
3.549 GHz	3.550 GHz	300.000 kHz	3.550 01 GHz	-28.98 dBm	-15.98 dB
3.550 GHz	3.580 GHz	500.000 kHz	3.551 08 GHz	15.75 dBm	-14.25 dB
3.580 GHz	3.581 GHz	300.000 kHz	3.580 46 GHz	-47.99 dBm	-34.99 dB
3.581 GHz	3.610 GHz	1.000 MHz	3.581 72 GHz	-42.72 dBm	-29.72 dB
3.610 GHz	3.720 GHz	1.000 MHz	3.713 24 GHz	-39.86 dBm	-14.86 dB
3.720 GHz	3.730 GHz	1.000 MHz	3.722 01 GHz	-42.63 dBm	-2.63 dB

NTNV_N48_PC3_30_30_L_TID4_RID1#1



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.520 GHz	3.530 GHz	1.000 MHz	3.529 93 GHz	-42.50 dBm	-2.50 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.539 92 GHz	-36.72 dBm	-11.72 dB
3.540 GHz	3.540 GHz	1.000 MHz	3.540 00 GHz	-36.24 dBm	-11.24 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.549 00 GHz	-32.24 dBm	-19.24 dB
3.549 GHz	3.550 GHz	300.000 kHz	3.550 01 GHz	-35.87 dBm	-22.87 dB
3.550 GHz	3.580 GHz	500.000 kHz	3.556 80 GHz	-2.92 dBm	-32.92 dB
3.580 GHz	3.581 GHz	300.000 kHz	3.580 02 GHz	-35.36 dBm	-22.36 dB
3.581 GHz	3.610 GHz	1.000 MHz	3.581 09 GHz	-31.34 dBm	-18.34 dB
3.610 GHz	3.720 GHz	1.000 MHz	3.611 06 GHz	-44.78 dBm	-19.78 dB
3.720 GHz	3.730 GHz	1.000 MHz	3.720 16 GHz	-52.05 dBm	-12.05 dB

NTNV_N48_PC3_30_30_L_TID6_RID1#1

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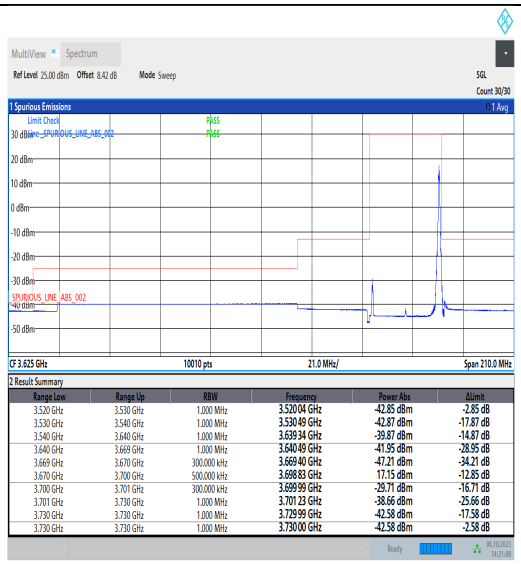
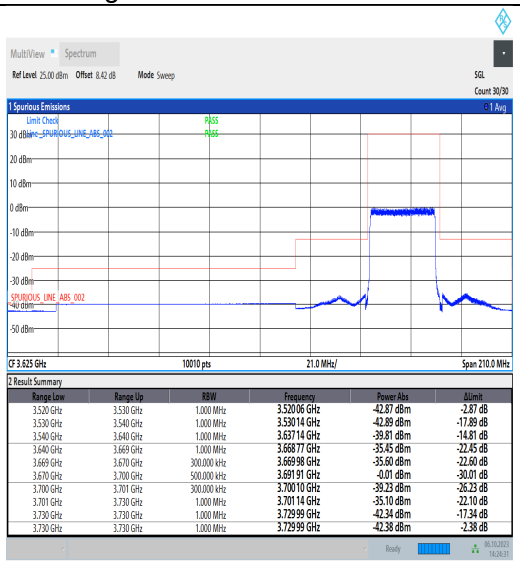


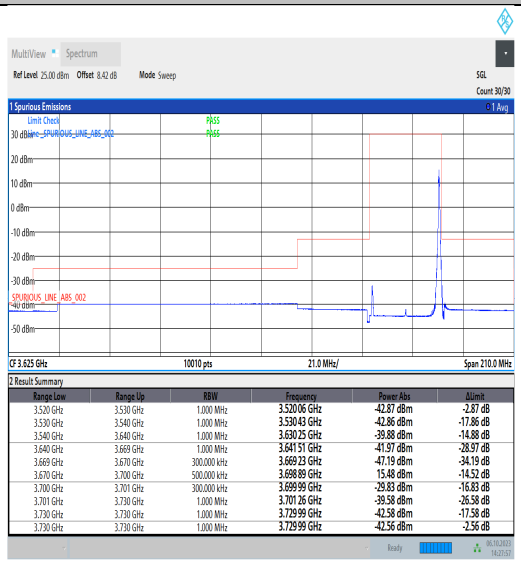
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.520 GHz	3.530 GHz	1.000 MHz	3.520 04 GHz	-42.85 dBm	-2.85 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.530 49 GHz	-42.87 dBm	-17.87 dB
3.540 GHz	3.640 GHz	1.000 MHz	3.639 34 GHz	-39.87 dBm	-14.87 dB
3.640 GHz	3.669 GHz	1.000 MHz	3.640 49 GHz	-41.95 dBm	-28.95 dB
3.669 GHz	3.670 GHz	300.000 kHz	3.669 40 GHz	-47.21 dBm	-34.21 dB
3.670 GHz	3.700 GHz	500.000 kHz	3.698 83 GHz	17.15 dBm	-12.85 dB
3.700 GHz	3.701 GHz	300.000 kHz	3.699 99 GHz	-29.71 dBm	-16.71 dB
3.701 GHz	3.730 GHz	1.000 MHz	3.701 23 GHz	-38.66 dBm	-25.66 dB
3.730 GHz	3.730 GHz	1.000 MHz	3.729 99 GHz	-42.58 dBm	-17.58 dB
3.730 GHz	3.730 GHz	1.000 MHz	3.730 00 GHz	-42.58 dBm	-2.58 dB

NTNV_N48_PC3_30_30_H_TID2_RID1#1



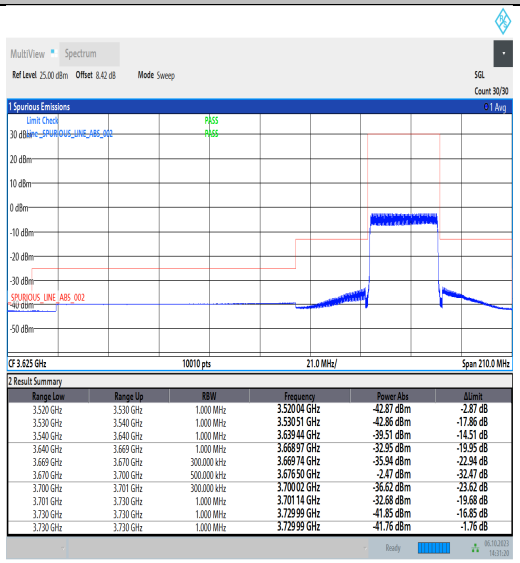
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.520 GHz	3.530 GHz	1.000 MHz	3.520 06 GHz	-42.87 dBm	-2.87 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.530 14 GHz	-42.89 dBm	-17.89 dB
3.540 GHz	3.640 GHz	1.000 MHz	3.637 14 GHz	-39.81 dBm	-14.81 dB
3.640 GHz	3.669 GHz	1.000 MHz	3.668 77 GHz	-35.45 dBm	-22.45 dB
3.669 GHz	3.670 GHz	300.000 kHz	3.669 98 GHz	-35.60 dBm	-22.60 dB
3.670 GHz	3.700 GHz	500.000 kHz	3.691 91 GHz	-0.01 dBm	-30.01 dB
3.700 GHz	3.701 GHz	300.000 kHz	3.700 10 GHz	-39.23 dBm	-26.23 dB
3.701 GHz	3.730 GHz	1.000 MHz	3.701 14 GHz	-35.10 dBm	-22.10 dB
3.730 GHz	3.730 GHz	1.000 MHz	3.729 99 GHz	-42.34 dBm	-17.34 dB
3.730 GHz	3.730 GHz	1.000 MHz	3.729 99 GHz	-42.38 dBm	-2.38 dB

NTNV_N48_PC3_30_30_H_TID3_RID1#1



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.520 GHz	3.530 GHz	1.000 MHz	3.520 06 GHz	-42.87 dBm	-2.87 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.530 43 GHz	-42.86 dBm	-17.86 dB
3.540 GHz	3.640 GHz	1.000 MHz	3.630 25 GHz	-39.88 dBm	-14.88 dB
3.640 GHz	3.669 GHz	1.000 MHz	3.641 51 GHz	-41.97 dBm	-28.97 dB
3.669 GHz	3.670 GHz	300.000 kHz	3.669 23 GHz	-47.19 dBm	-34.19 dB
3.670 GHz	3.700 GHz	500.000 kHz	3.698 89 GHz	15.48 dBm	-14.52 dB
3.700 GHz	3.701 GHz	300.000 kHz	3.699 99 GHz	-29.83 dBm	-16.83 dB
3.701 GHz	3.730 GHz	1.000 MHz	3.701 26 GHz	-39.58 dBm	-26.58 dB
3.730 GHz	3.730 GHz	1.000 MHz	3.729 99 GHz	-42.58 dBm	-17.58 dB
3.730 GHz	3.730 GHz	1.000 MHz	3.729 99 GHz	-42.56 dBm	-2.56 dB

NTNV_N48_PC3_30_30_H_TID5_RID1#1



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.520 GHz	3.530 GHz	1.000 MHz	3.520 04 GHz	-42.87 dBm	-2.87 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.530 51 GHz	-42.86 dBm	-17.86 dB
3.540 GHz	3.640 GHz	1.000 MHz	3.639 44 GHz	-39.51 dBm	-14.51 dB
3.640 GHz	3.669 GHz	1.000 MHz	3.668 97 GHz	-32.95 dBm	-19.95 dB
3.669 GHz	3.670 GHz	300.000 kHz	3.669 74 GHz	-35.94 dBm	-22.94 dB
3.670 GHz	3.700 GHz	500.000 kHz	3.676 50 GHz	-2.47 dBm	-32.47 dB
3.700 GHz	3.701 GHz	300.000 kHz	3.700 02 GHz	-36.62 dBm	-23.62 dB
3.701 GHz	3.730 GHz	1.000 MHz	3.701 14 GHz	-32.68 dBm	-19.68 dB
3.730 GHz	3.730 GHz	1.000 MHz	3.729 99 GHz	-41.85 dBm	-16.85 dB
3.730 GHz	3.730 GHz	1.000 MHz	3.729 99 GHz	-41.76 dBm	-1.76 dB

NTNV_N48_PC3_30_30_H_TID6_RID1#1

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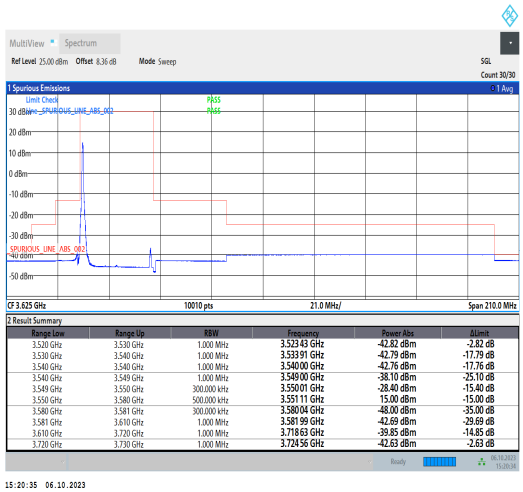
Band Edge for MIMO ANT2

Test Graphs



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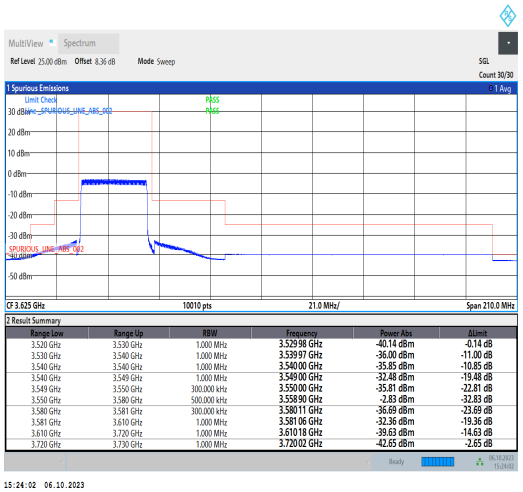

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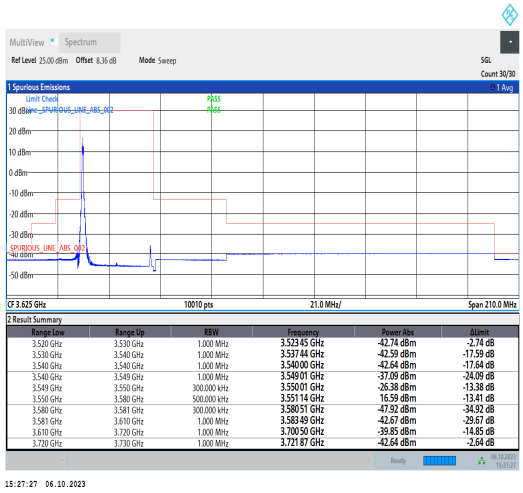

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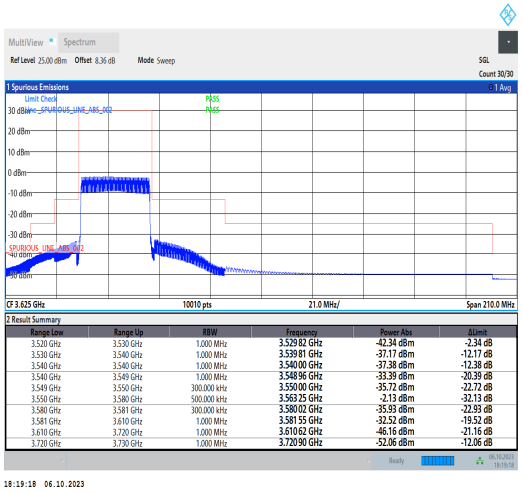

1-N48-PC3-30-30-L-6-CP-QPSK-Outer_Full-78@0-Ant2-1--PASS-see graph

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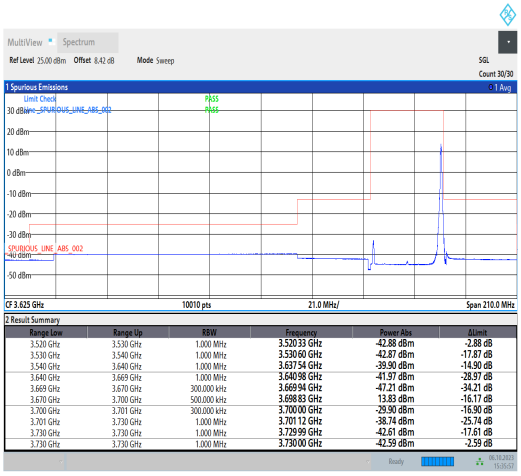
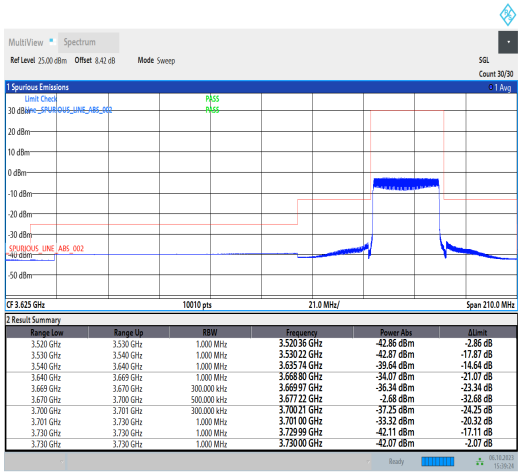


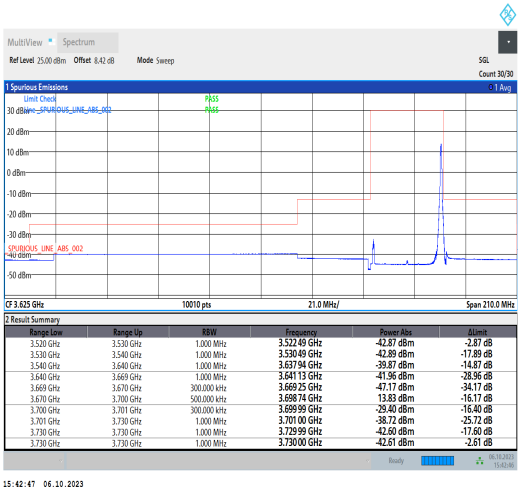
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.520 GHz	3.530 GHz	1.000 MHz	3.520 33 GHz	-42.88 dBm	-2.88 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.530 60 GHz	-42.87 dBm	-17.87 dB
3.540 GHz	3.640 GHz	1.000 MHz	3.637 54 GHz	-39.90 dBm	-14.90 dB
3.640 GHz	3.669 GHz	1.000 MHz	3.640 98 GHz	-41.97 dBm	-28.97 dB
3.669 GHz	3.670 GHz	300.000 kHz	3.669 94 GHz	-47.21 dBm	-34.21 dB
3.670 GHz	3.700 GHz	500.000 kHz	3.698 83 GHz	13.83 dBm	-16.17 dB
3.700 GHz	3.701 GHz	300.000 kHz	3.700 00 GHz	-29.90 dBm	-16.90 dB
3.701 GHz	3.730 GHz	1.000 MHz	3.701 12 GHz	-38.74 dBm	-25.74 dB
3.730 GHz	3.730 GHz	1.000 MHz	3.729 99 GHz	-42.61 dBm	-17.61 dB
3.730 GHz	3.730 GHz	1.000 MHz	3.730 00 GHz	-42.59 dBm	-2.59 dB

1-N48-PC3-30-30-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@77-Ant2-1--PASS-see graph



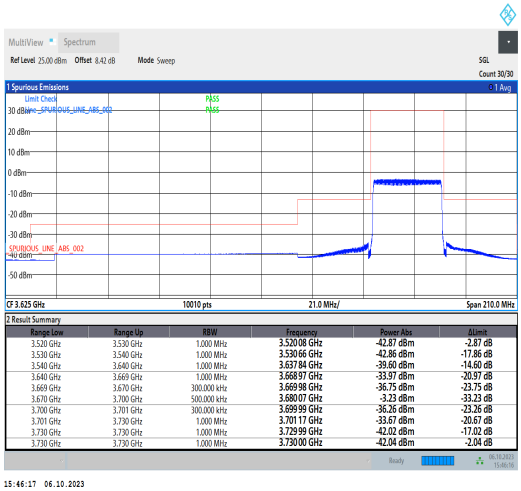
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.520 GHz	3.530 GHz	1.000 MHz	3.520 36 GHz	-42.86 dBm	-2.86 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.530 22 GHz	-42.87 dBm	-17.87 dB
3.540 GHz	3.640 GHz	1.000 MHz	3.635 74 GHz	-39.64 dBm	-14.64 dB
3.640 GHz	3.669 GHz	1.000 MHz	3.668 80 GHz	-34.07 dBm	-21.07 dB
3.669 GHz	3.670 GHz	300.000 kHz	3.669 97 GHz	-36.34 dBm	-23.34 dB
3.670 GHz	3.700 GHz	500.000 kHz	3.677 22 GHz	-2.68 dBm	-32.68 dB
3.700 GHz	3.701 GHz	300.000 kHz	3.700 21 GHz	-37.25 dBm	-24.25 dB
3.701 GHz	3.730 GHz	1.000 MHz	3.701 00 GHz	-33.32 dBm	-20.32 dB
3.730 GHz	3.730 GHz	1.000 MHz	3.729 99 GHz	-42.11 dBm	-17.11 dB
3.730 GHz	3.730 GHz	1.000 MHz	3.730 00 GHz	-42.07 dBm	-2.07 dB

1-N48-PC3-30-30-H-3-DFT-PI2BPSK-Outer_Full-75@0-Ant2-1--PASS-see graph



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.520 GHz	3.530 GHz	1.000 MHz	3.522 69 GHz	-42.87 dBm	-2.87 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.530 49 GHz	-42.89 dBm	-17.89 dB
3.540 GHz	3.640 GHz	1.000 MHz	3.637 94 GHz	-39.87 dBm	-14.87 dB
3.640 GHz	3.669 GHz	1.000 MHz	3.641 13 GHz	-41.96 dBm	-28.96 dB
3.669 GHz	3.670 GHz	300.000 kHz	3.669 25 GHz	-47.17 dBm	-34.17 dB
3.670 GHz	3.700 GHz	500.000 kHz	3.698 74 GHz	13.83 dBm	-16.17 dB
3.700 GHz	3.701 GHz	300.000 kHz	3.699 99 GHz	-29.40 dBm	-16.40 dB
3.701 GHz	3.730 GHz	1.000 MHz	3.701 00 GHz	-38.72 dBm	-25.72 dB
3.730 GHz	3.730 GHz	1.000 MHz	3.729 99 GHz	-42.60 dBm	-17.60 dB
3.730 GHz	3.730 GHz	1.000 MHz	3.730 00 GHz	-42.61 dBm	-2.61 dB

1-N48-PC3-30-30-H-5-CP-QPSK-Edge_1RB_Right-1@77-Ant2-1--PASS-see graph



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.520 GHz	3.530 GHz	1.000 MHz	3.520 08 GHz	-42.87 dBm	-2.87 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.530 66 GHz	-42.86 dBm	-17.86 dB
3.540 GHz	3.640 GHz	1.000 MHz	3.637 84 GHz	-39.60 dBm	-14.60 dB
3.640 GHz	3.669 GHz	1.000 MHz	3.668 97 GHz	-33.97 dBm	-20.97 dB
3.669 GHz	3.670 GHz	300.000 kHz	3.669 98 GHz	-36.75 dBm	-23.75 dB
3.670 GHz	3.700 GHz	500.000 kHz	3.680 07 GHz	-3.23 dBm	-33.23 dB
3.700 GHz	3.701 GHz	300.000 kHz	3.699 99 GHz	-36.26 dBm	-23.26 dB
3.701 GHz	3.730 GHz	1.000 MHz	3.701 17 GHz	-33.67 dBm	-20.67 dB
3.730 GHz	3.730 GHz	1.000 MHz	3.729 99 GHz	-42.02 dBm	-17.02 dB
3.730 GHz	3.730 GHz	1.000 MHz	3.730 00 GHz	-42.04 dBm	-2.04 dB

1-N48-PC3-30-30-H-6-CP-QPSK-Outer_Full-78@0-Ant2-1--PASS-see graph

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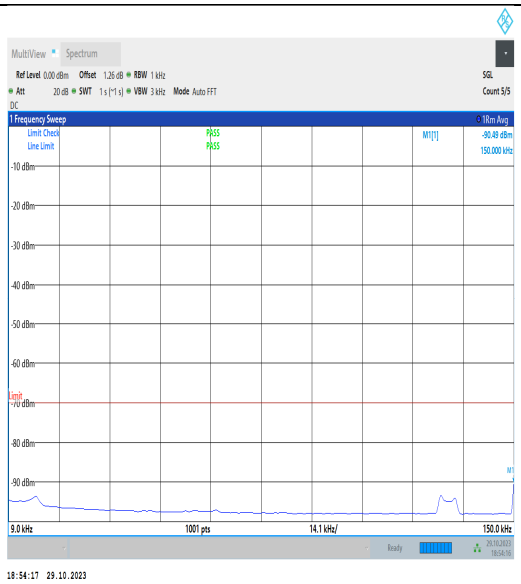
Conducted Spurious Emission for SA

Test Graphs



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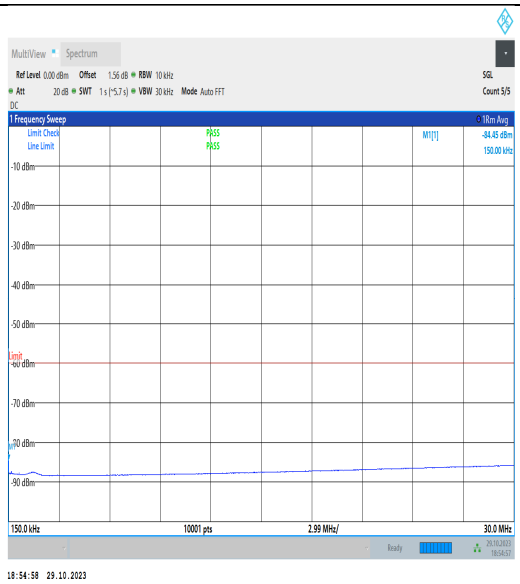

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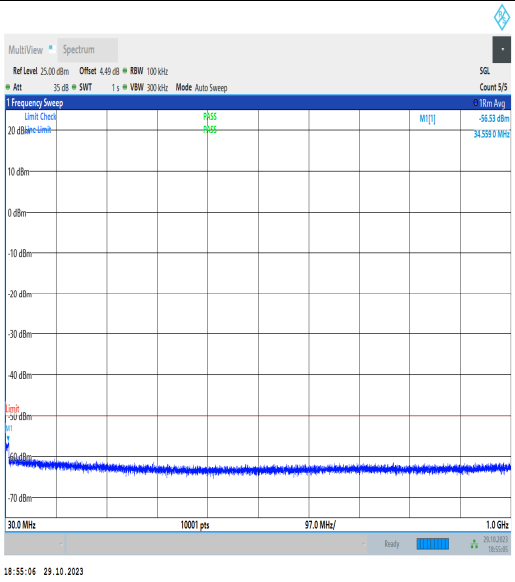

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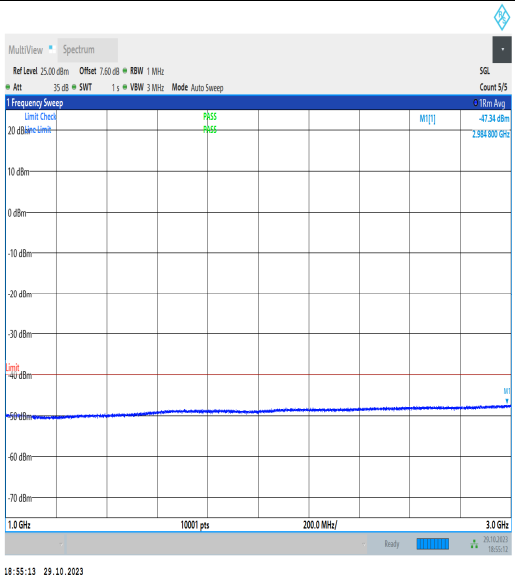

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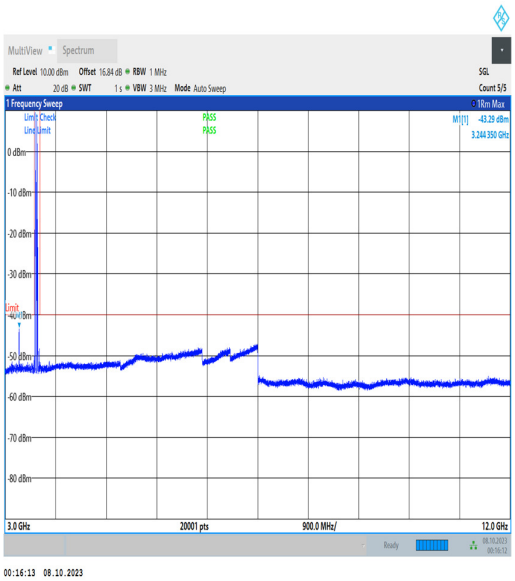

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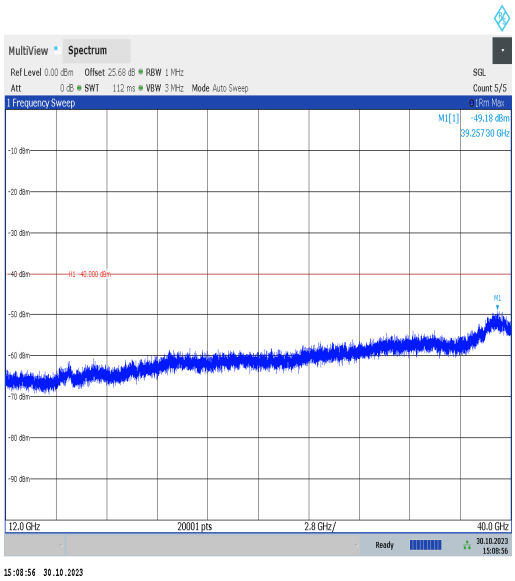

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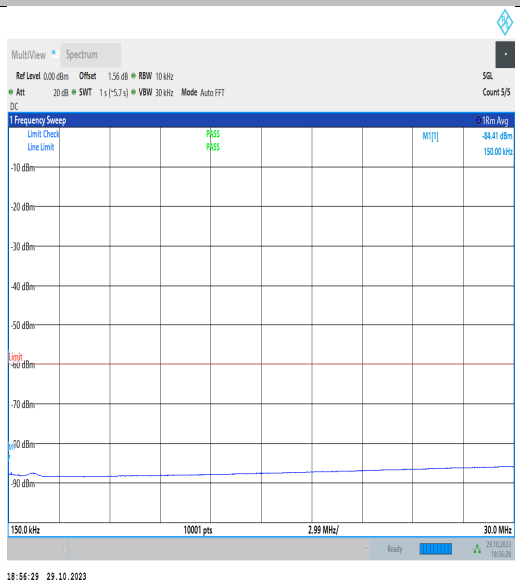

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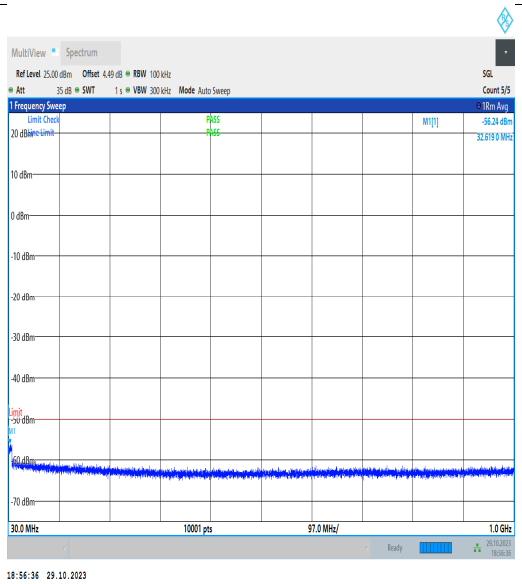

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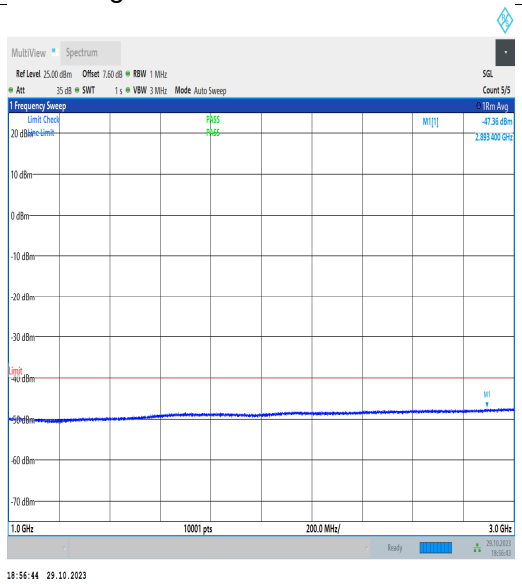

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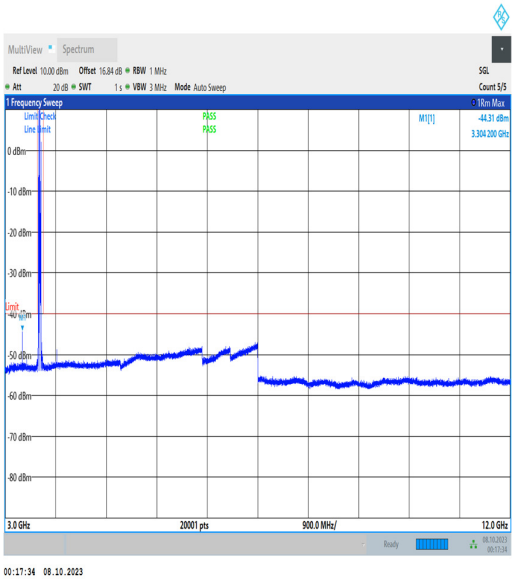

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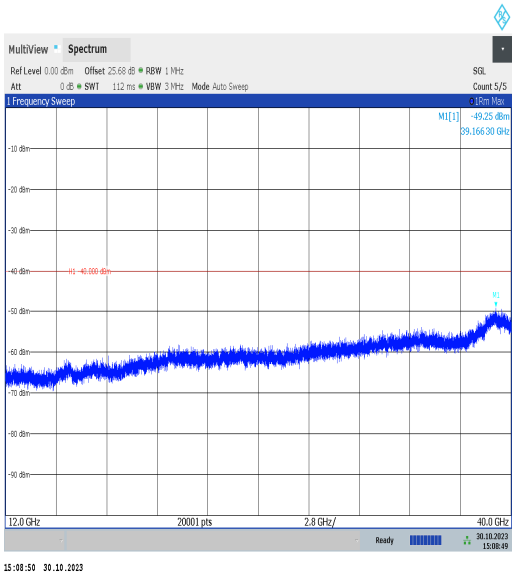

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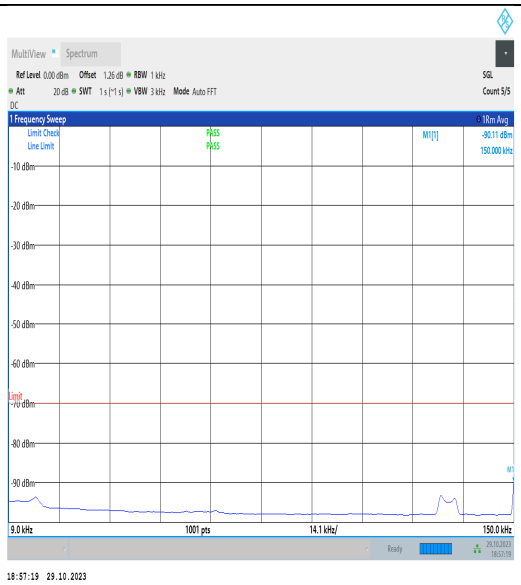

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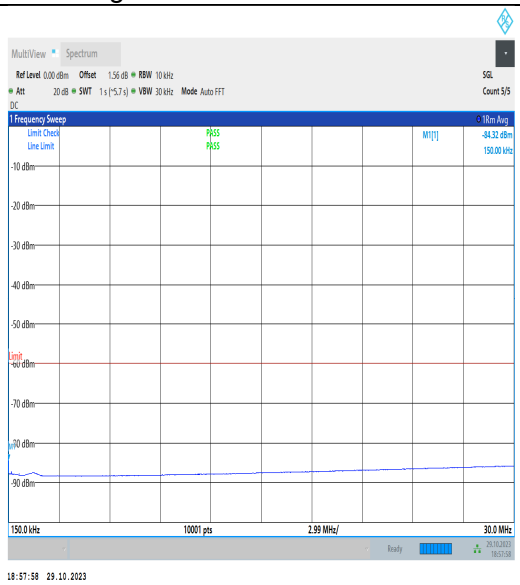

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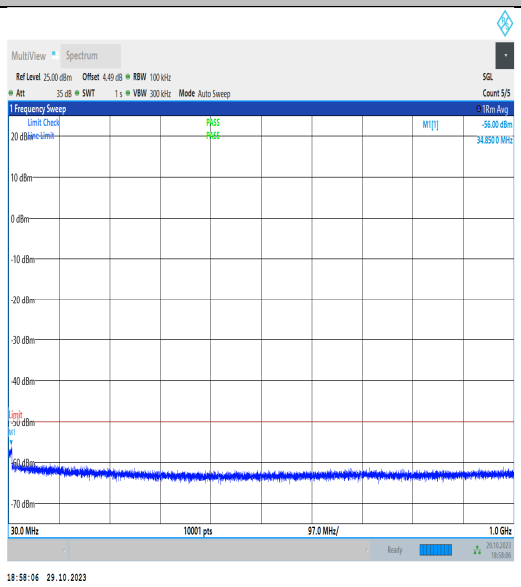

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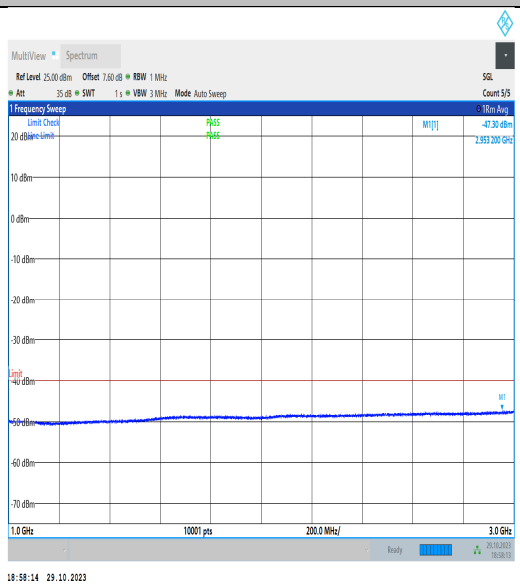

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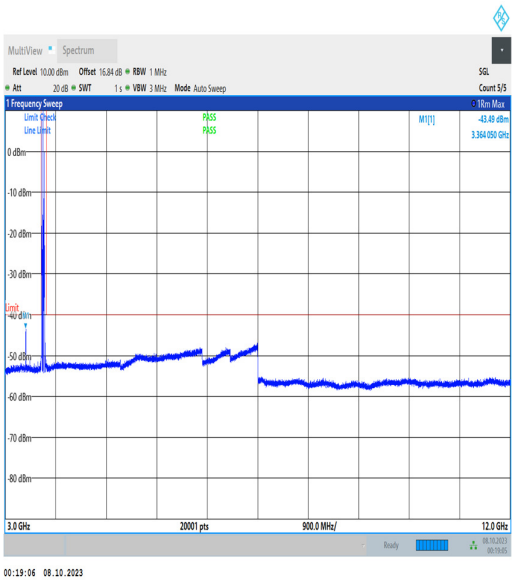	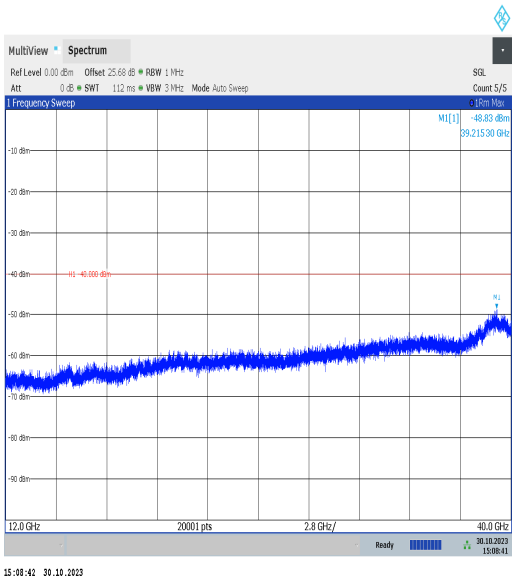
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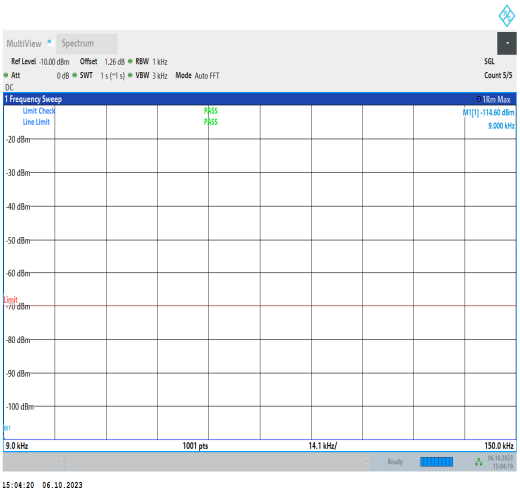
Conducted Spurious Emission for MIMO ANT2

Test Graphs



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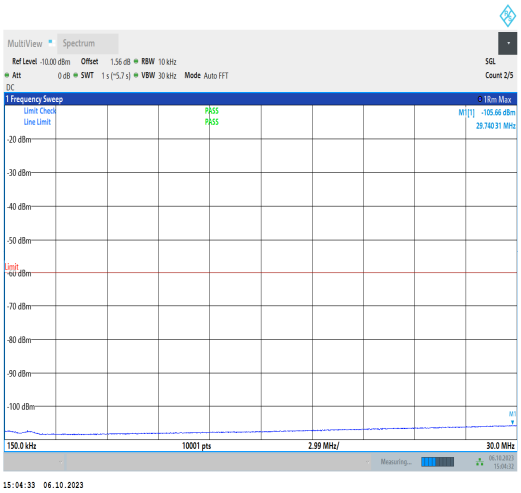

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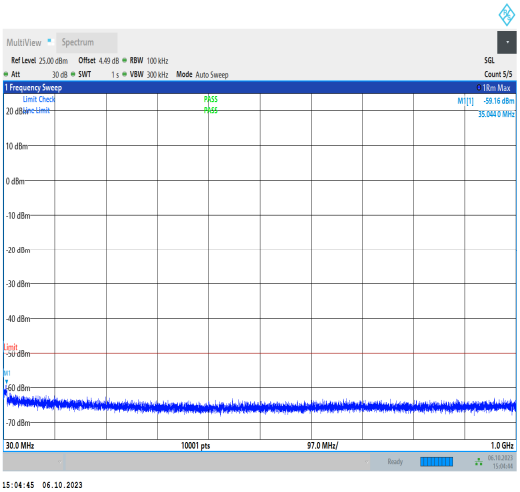

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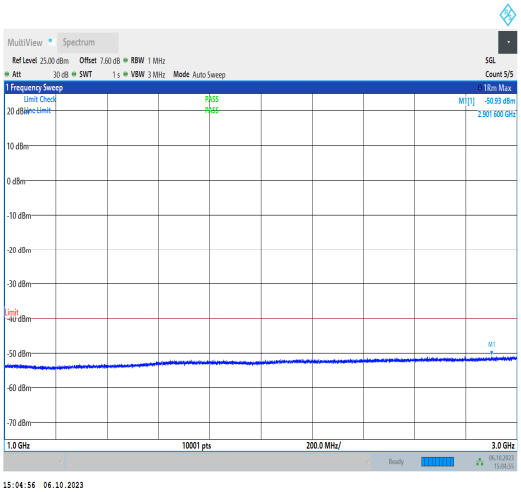

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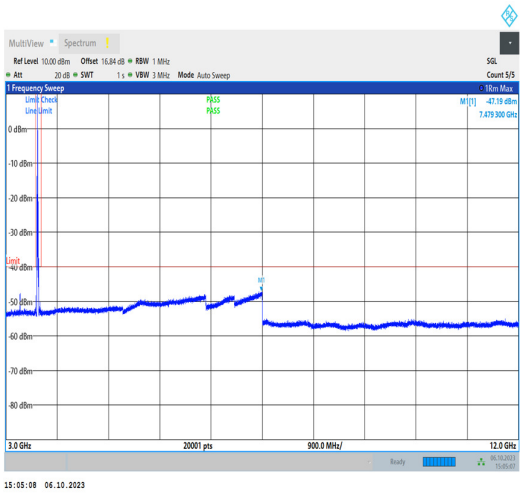

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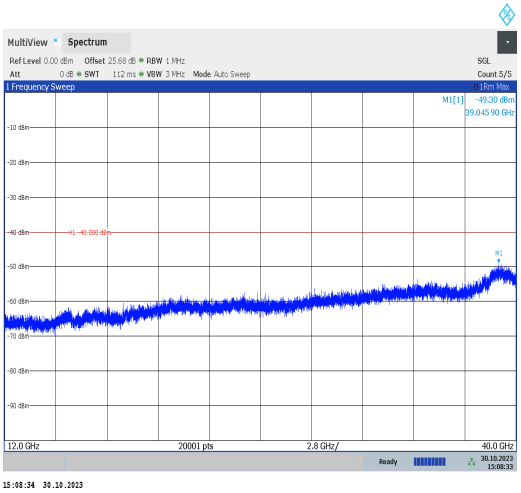

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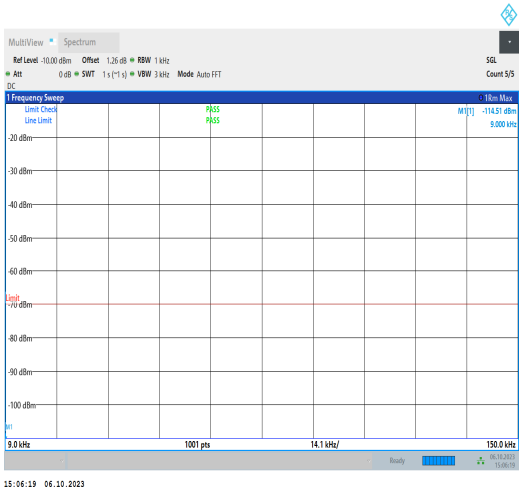

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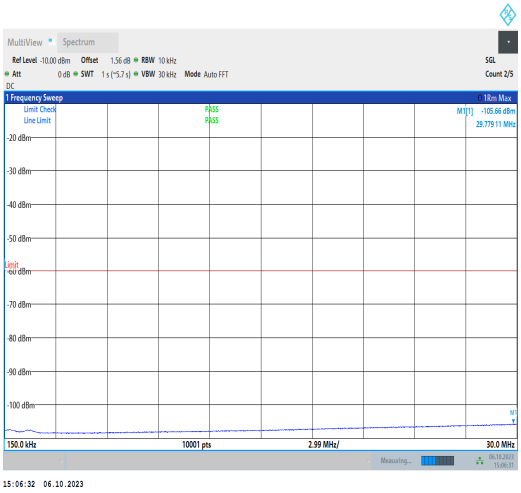

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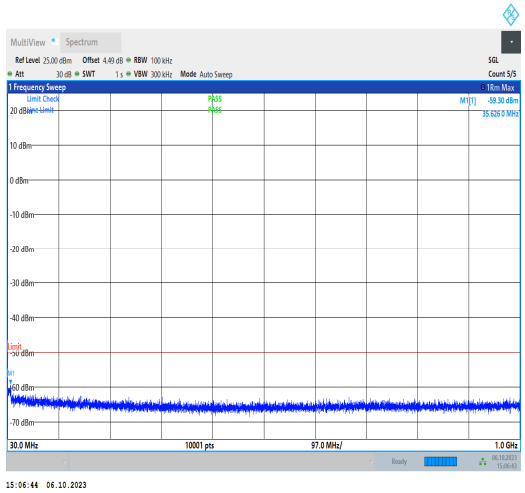

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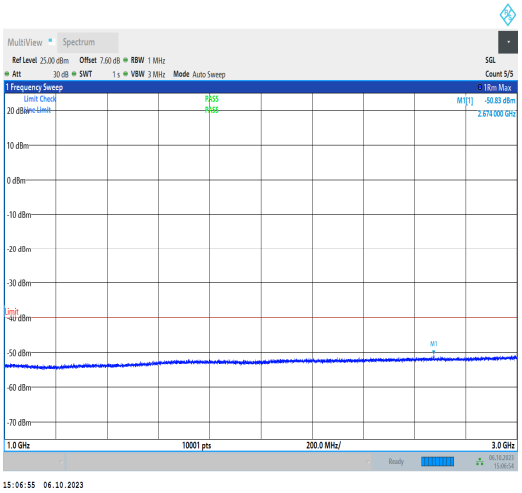

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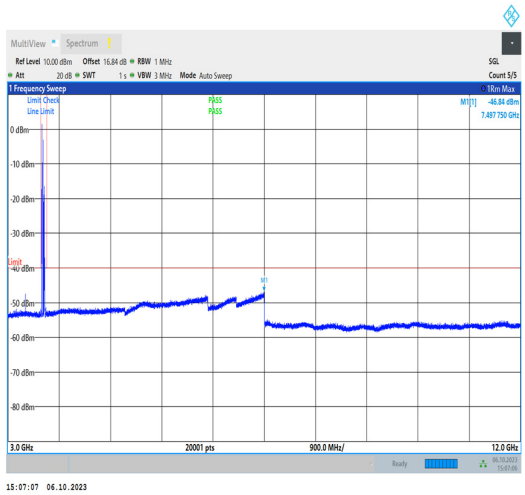

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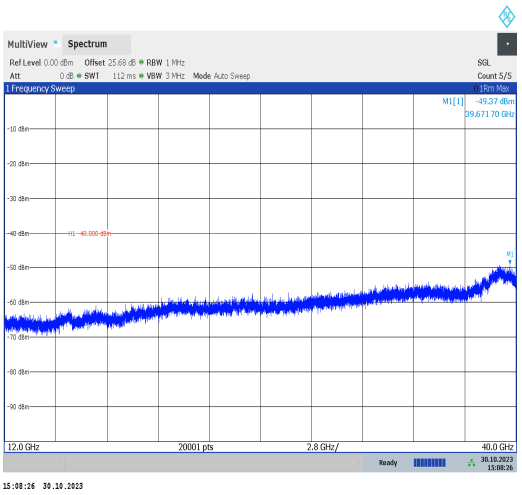

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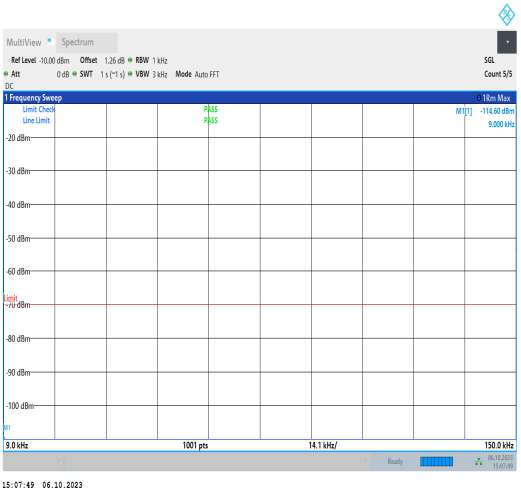
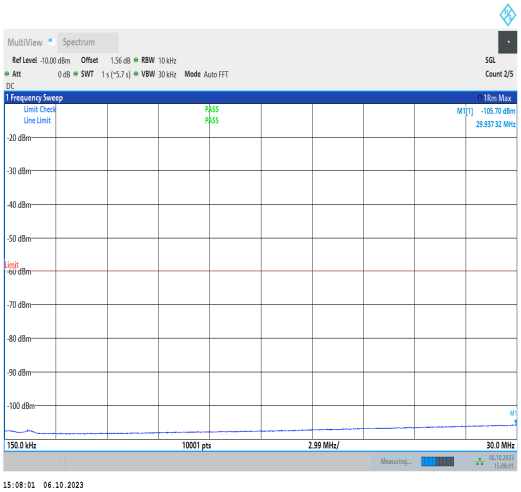


1-N48-PC3-30-30-H-1-DFT-QPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant2-0.01--114.60--70-PASS



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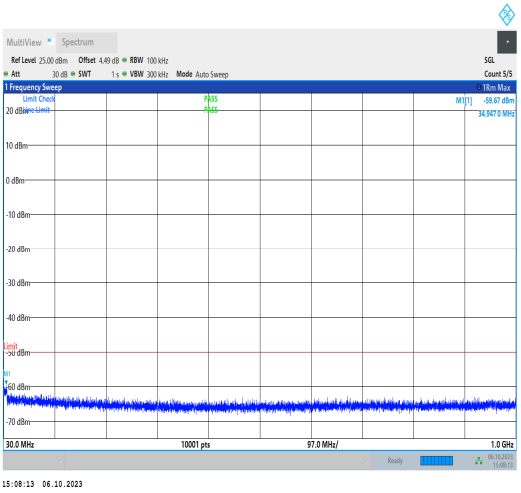
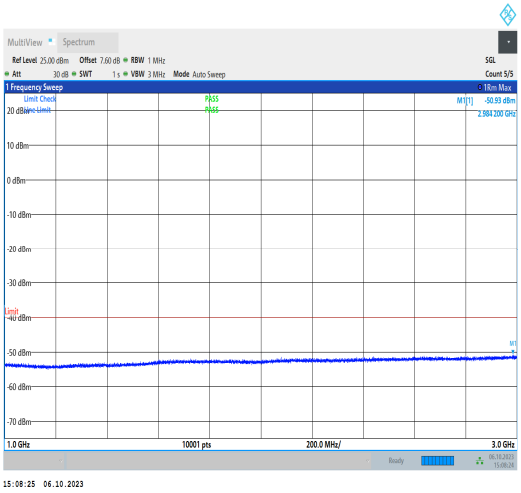


1-N48-PC3-30-30-H-1-DFT-QPSK-Edge_1RB_Left-1@0-30-1000-Ant2-34.95--59.67--50-PASS



1-N48-PC3-30-30-H-1-DFT-QPSK-Edge_1RB_Left-1@0-1000-3000-Ant2-2984.20--50.93--40-PASS

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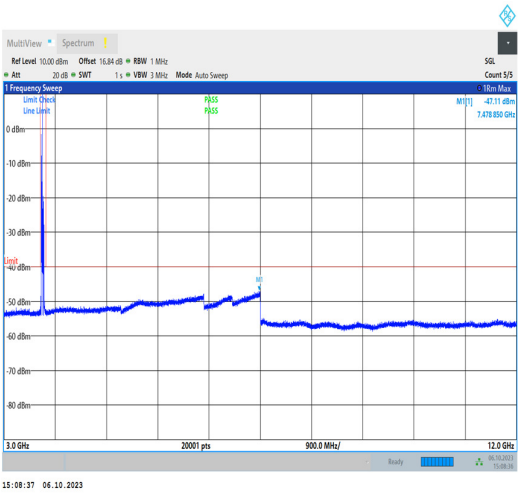	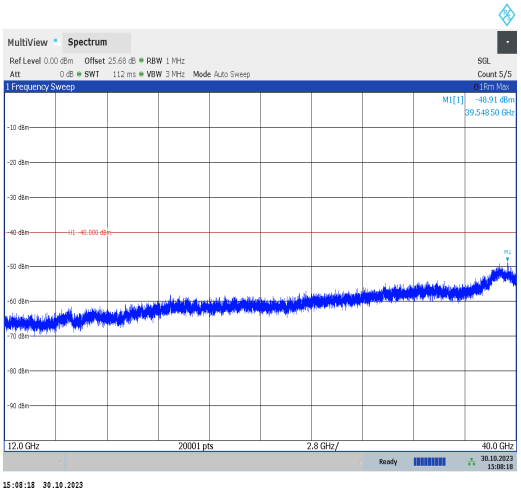
1-N48-PC3-30-30-H-1-DFT-QPSK-Edge_1RB_Left-1@0-3000-12000-Ant2-7478.85--47.11--40-PASS	1-N48-PC3-30-30-H-1-DFT-QPSK-Edge_1RB_Left-1@0-12000-40000-Ant2-16866.80--50.98--40-PASS

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Member of the SGS Group (SGS SA)

Field Strength of Spurious Radiation

Test Band = NR SA Band 48_ TM1
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7241.2708	40.75	-43.40	35.88	-62.03	-40.00	22.03	Horizontal
2	8409.9583	37.55	-41.55	36.60	-62.66	-40.00	22.66	Horizontal
3	9633.75	33.78	-39.13	37.50	-63.11	-40.00	23.11	Horizontal
4	11457.4583	28.54	-37.04	38.75	-65.01	-40.00	25.01	Horizontal
5	13850.8958	27.23	-35.70	40.63	-63.10	-40.00	23.10	Horizontal
6	16492.0625	27.73	-33.41	40.73	-60.22	-40.00	20.22	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7241.2708	42.29	-43.40	35.88	-60.49	-40.00	20.49	Vertical
2	8411.875	38.06	-41.55	36.59	-62.16	-40.00	22.16	Vertical
3	10088.4792	32.09	-39.10	38.24	-64.03	-40.00	24.03	Vertical
4	12219.3333	28.07	-37.11	38.87	-65.44	-40.00	25.44	Vertical
5	13847.0625	27.74	-35.74	40.62	-62.63	-40.00	22.63	Vertical
6	15400.0417	25.21	-33.80	40.46	-63.39	-40.00	23.39	Vertical

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Test Band = NR SA Band 48_ TM1
Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7654.3125	39.08	-42.95	36.66	-62.47	-40.00	22.47	Horizontal
2	9045.8125	35.42	-40.56	36.39	-64.01	-40.00	24.01	Horizontal
3	11329.5208	29.23	-37.44	38.73	-64.73	-40.00	24.73	Horizontal
4	13671.6875	27.19	-36.00	40.31	-63.76	-40.00	23.76	Horizontal
5	15393.3333	25.49	-33.81	40.47	-63.11	-40.00	23.11	Horizontal
6	17161.9375	27.33	-34.91	43.03	-59.81	-40.00	19.81	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7863.2292	39.05	-42.64	36.75	-62.10	-40.00	22.10	Vertical
2	9588.7083	34.87	-39.16	37.42	-62.13	-40.00	22.13	Vertical
3	11148.3958	29.25	-37.62	38.71	-64.91	-40.00	24.91	Vertical
4	13370.2917	26.23	-36.71	39.77	-65.97	-40.00	25.97	Vertical
5	15155.1875	25.86	-34.60	40.97	-63.03	-40.00	23.03	Vertical
6	16464.2708	27.97	-33.59	40.64	-60.24	-40.00	20.24	Vertical

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Test Band = NR SA Band 48_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7241.2708	40.96	-43.40	35.88	-61.82	-40.00	21.82	Horizontal
2	8401.8125	37.95	-41.55	36.60	-62.26	-40.00	22.26	Horizontal
3	9592.5417	34.19	-39.12	37.43	-62.76	-40.00	22.76	Horizontal
4	11143.125	29.70	-37.62	38.71	-64.47	-40.00	24.47	Horizontal
5	12869.0833	27.40	-36.96	39.06	-65.76	-40.00	25.76	Horizontal
6	16487.2708	27.36	-33.44	40.71	-60.63	-40.00	20.63	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7241.2708	40.53	-43.40	35.88	-62.25	-40.00	22.25	Vertical
2	8409.4792	37.86	-41.55	36.60	-62.35	-40.00	22.35	Vertical
3	9646.2083	33.94	-39.17	37.53	-62.97	-40.00	22.97	Vertical
4	11380.7917	28.64	-37.08	38.74	-64.96	-40.00	24.96	Vertical
5	13855.6875	27.43	-35.66	40.64	-62.85	-40.00	22.85	Vertical
6	16510.2708	27.45	-33.49	40.78	-60.52	-40.00	20.52	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
N48	30	30	DFT-PI2BPSK	M	Outer_Full	VL	NT	-10.100000	-0.002786	PASS
N48	30	30	DFT-PI2BPSK	M	Outer_Full	VN	NT	-8.500000	-0.002345	PASS
N48	30	30	DFT-PI2BPSK	M	Outer_Full	VH	NT	-3.200000	-0.000883	PASS
N48	30	30	CP-QPSK	M	Outer_Full	VL	NT	-15.500000	-0.004276	PASS
N48	30	30	CP-QPSK	M	Outer_Full	VN	NT	-6.300000	-0.001738	PASS
N48	30	30	CP-QPSK	M	Outer_Full	VH	NT	-9.800000	-0.002703	PASS

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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N48	30	30	DFT-PI2BPSK	M	Outer_Full	NV	-30	-2.600000	-0.000717	PASS
N48	30	30	DFT-PI2BPSK	M	Outer_Full	NV	-20	-3.300000	-0.000910	PASS
N48	30	30	DFT-PI2BPSK	M	Outer_Full	NV	-10	-6.000000	-0.001655	PASS
N48	30	30	DFT-PI2BPSK	M	Outer_Full	NV	0	-0.200000	-0.000055	PASS
N48	30	30	DFT-PI2BPSK	M	Outer_Full	NV	10	-7.400000	-0.002041	PASS
N48	30	30	DFT-PI2BPSK	M	Outer_Full	NV	20	-7.800000	-0.002152	PASS
N48	30	30	DFT-PI2BPSK	M	Outer_Full	NV	30	-3.500000	-0.000966	PASS
N48	30	30	DFT-PI2BPSK	M	Outer_Full	NV	40	-5.300000	-0.001462	PASS
N48	30	30	DFT-PI2BPSK	M	Outer_Full	NV	50	-4.800000	-0.001324	PASS
N48	30	30	CP-QPSK	M	Outer_Full	NV	-30	-6.100000	-0.001683	PASS
N48	30	30	CP-QPSK	M	Outer_Full	NV	-20	4.200000	0.001159	PASS
N48	30	30	CP-QPSK	M	Outer_Full	NV	-10	-1.500000	-0.000414	PASS
N48	30	30	CP-QPSK	M	Outer_Full	NV	0	-5.600000	-0.001545	PASS
N48	30	30	CP-QPSK	M	Outer_Full	NV	10	-6.000000	-0.001655	PASS
N48	30	30	CP-QPSK	M	Outer_Full	NV	20	0.000000	0.000000	PASS
N48	30	30	CP-QPSK	M	Outer_Full	NV	30	-5.000000	-0.001379	PASS
N48	30	30	CP-QPSK	M	Outer_Full	NV	40	-9.000000	-0.002483	PASS
N48	30	30	CP-QPSK	M	Outer_Full	NV	50	-3.600000	-0.000993	PASS

---End of Attachment---

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