Appendix B.39

NR Band n70

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Effective (Isotropic) Radiated Power Output Data for SA

Test ResultAnt7

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
N70	15	5	DFT-QPSK	L	1@1	23.37	23.70	30.00	PASS
N70	15	5	DFT-16QAM	L	1@1	22.88	23.21	30.00	PASS
N70	15	5	DFT-QPSK	M	1@1	23.48	23.81	30.00	PASS
N70	15	5	DFT-16QAM	M	1@1	22.89	23.22	30.00	PASS
N70	15	5	DFT-QPSK	H	1@1	23.50	23.83	30.00	PASS
N70	15	5	DFT-16QAM	H	1@1	22.95	23.28	30.00	PASS
N70	15	10	DFT-QPSK	L	1@1	23.38	23.71	30.00	PASS
N70	15	10	DFT-16QAM	L	1@1	22.88	23.21	30.00	PASS
N70	15	10	DFT-QPSK	M	1@1	23.42	23.75	30.00	PASS
N70	15	10	DFT-16QAM	M	1@1	22.80	23.13	30.00	PASS
N70	15	10	DFT-QPSK	H	1@1	23.47	23.80	30.00	PASS
N70	15	10	DFT-16QAM	H	1@1	22.87	23.20	30.00	PASS
N70	15	15	DFT-PI2BPSK	L	1@1	23.26	23.59	30.00	PASS
N70	15	15	DFT-PI2BPSK	L	1@77	23.50	23.83	30.00	PASS
N70	15	15	DFT-PI2BPSK	L	75@0	22.95	23.28	30.00	PASS
N70	15	15	DFT-QPSK	L	1@1	23.44	23.77	30.00	PASS
N70	15	15	DFT-QPSK	L	1@77	23.58	23.91	30.00	PASS
N70	15	15	DFT-QPSK	L	75@0	22.99	23.32	30.00	PASS
N70	15	15	DFT-16QAM	L	1@1	22.88	23.21	30.00	PASS
N70	15	15	DFT-16QAM	L	1@77	23.11	23.44	30.00	PASS
N70	15	15	DFT-16QAM	L	75@0	21.93	22.26	30.00	PASS
N70	15	15	DFT-64QAM	L	1@1	21.14	21.47	30.00	PASS
N70	15	15	DFT-64QAM	L	1@77	21.37	21.70	30.00	PASS
N70	15	15	DFT-64QAM	L	75@0	21.35	21.68	30.00	PASS
N70	15	15	DFT-256QAM	L	1@1	19.24	19.57	30.00	PASS
N70	15	15	DFT-256QAM	L	1@77	19.44	19.77	30.00	PASS
N70	15	15	DFT-256QAM	L	75@0	19.45	19.78	30.00	PASS
N70	15	15	DFT-PI2BPSK	M	1@1	23.30	23.63	30.00	PASS
N70	15	15	DFT-PI2BPSK	M	1@77	23.53	23.86	30.00	PASS
N70	15	15	DFT-PI2BPSK	M	75@0	22.99	23.32	30.00	PASS
N70	15	15	DFT-QPSK	M	1@1	23.41	23.74	30.00	PASS

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N70	15	15	DFT-QPSK	M	1@77	23.58	23.91	30.00	PASS
N70	15	15	DFT-QPSK	M	75@0	22.91	23.24	30.00	PASS
N70	15	15	DFT-16QAM	M	1@1	22.84	23.17	30.00	PASS
N70	15	15	DFT-16QAM	M	1@77	23.07	23.40	30.00	PASS
N70	15	15	DFT-16QAM	M	75@0	21.95	22.28	30.00	PASS
N70	15	15	DFT-64QAM	M	1@1	21.16	21.49	30.00	PASS
N70	15	15	DFT-64QAM	M	1@77	21.32	21.65	30.00	PASS
N70	15	15	DFT-64QAM	M	75@0	21.41	21.74	30.00	PASS
N70	15	15	DFT-256QAM	M	1@1	19.23	19.56	30.00	PASS
N70	15	15	DFT-256QAM	M	1@77	19.46	19.79	30.00	PASS
N70	15	15	DFT-256QAM	M	75@0	19.36	19.69	30.00	PASS
N70	15	15	DFT-PI2BPSK	H	1@1	23.32	23.65	30.00	PASS
N70	15	15	DFT-PI2BPSK	H	1@77	23.52	23.85	30.00	PASS
N70	15	15	DFT-PI2BPSK	H	75@0	22.97	23.30	30.00	PASS
N70	15	15	DFT-QPSK	H	1@1	23.43	23.76	30.00	PASS
N70	15	15	DFT-QPSK	H	1@77	23.61	23.94	30.00	PASS
N70	15	15	DFT-QPSK	H	75@0	22.97	23.30	30.00	PASS
N70	15	15	DFT-16QAM	H	1@1	22.83	23.16	30.00	PASS
N70	15	15	DFT-16QAM	H	1@77	23.08	23.41	30.00	PASS
N70	15	15	DFT-16QAM	H	75@0	21.99	22.32	30.00	PASS
N70	15	15	DFT-64QAM	H	1@1	21.17	21.50	30.00	PASS
N70	15	15	DFT-64QAM	H	1@77	21.42	21.75	30.00	PASS
N70	15	15	DFT-64QAM	H	75@0	21.44	21.77	30.00	PASS
N70	15	15	DFT-256QAM	H	1@1	19.15	19.48	30.00	PASS
N70	15	15	DFT-256QAM	H	1@77	19.41	19.74	30.00	PASS
N70	15	15	DFT-256QAM	H	75@0	19.43	19.76	30.00	PASS

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Effective (Isotropic) Radiated Power Output Data for MIMO

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power Ant0 (dBm)	Power Ant7 (dBm)	Total Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
N70	15	5	DFT-QPSK	L	Inner_1RB_Left	20.88	18.47	22.85	23.18	30.00	PASS
N70	15	5	DFT-16QAM	L	Inner_1RB_Left	20.38	17.51	22.19	22.52	30.00	PASS
N70	15	5	DFT-QPSK	M	Inner_1RB_Left	20.76	18.21	22.68	23.01	30.00	PASS
N70	15	5	DFT-16QAM	M	Inner_1RB_Left	20.23	17.26	22.00	22.33	30.00	PASS
N70	15	5	DFT-QPSK	H	Inner_1RB_Left	20.88	18.05	22.70	23.03	30.00	PASS
N70	15	5	DFT-16QAM	H	Inner_1RB_Left	20.16	17.07	21.89	22.22	30.00	PASS
N70	15	10	DFT-QPSK	L	Inner_1RB_Left	20.73	18.28	22.69	23.02	30.00	PASS
N70	15	10	DFT-16QAM	L	Inner_1RB_Left	20.06	17.03	21.81	22.14	30.00	PASS
N70	15	10	DFT-QPSK	M	Inner_1RB_Left	20.64	18.07	22.55	22.88	30.00	PASS
N70	15	10	DFT-16QAM	M	Inner_1RB_Left	20.23	17.31	22.02	22.35	30.00	PASS
N70	15	10	DFT-QPSK	H	Inner_1RB_Left	20.69	18.13	22.61	22.94	30.00	PASS
N70	15	10	DFT-16QAM	H	Inner_1RB_Left	20.13	17.27	21.94	22.27	30.00	PASS
N70	15	15	DFT-PI2BPSK	M	Inner_1RB_Left	20.77	18.37	22.74	23.07	30.00	PASS
N70	15	15	DFT-PI2BPSK	M	Inner_1RB_Right	20.96	17.74	22.65	22.98	30.00	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	19.87	17.23	21.76	22.09	30.00	PASS
N70	15	15	DFT-QPSK	M	Inner_1RB_Left	20.76	18.31	22.72	23.05	30.00	PASS
N70	15	15	DFT-QPSK	M	Inner_1RB_Right	20.95	17.78	22.66	22.99	30.00	PASS
N70	15	15	DFT-QPSK	M	Outer_Full	19.78	17.25	21.71	22.04	30.00	PASS
N70	15	15	DFT-16QAM	M	Inner_1RB_Left	19.79	17.41	21.77	22.1	30.00	PASS
N70	15	15	DFT-16QAM	M	Inner_1RB_Right	20.00	16.96	21.75	22.08	30.00	PASS
N70	15	15	DFT-16QAM	M	Outer_Full	18.89	16.36	20.82	21.15	30.00	PASS
N70	15	15	DFT-64QAM	M	Inner_1RB_Left	18.18	15.83	20.17	20.5	30.00	PASS
N70	15	15	DFT-64QAM	M	Inner_1RB_Right	18.42	15.37	20.17	20.5	30.00	PASS
N70	15	15	DFT-64QAM	M	Outer_Full	18.35	15.65	20.22	20.55	30.00	PASS
N70	15	15	DFT-256QAM	M	Inner_1RB_Left	16.43	13.89	18.35	18.68	30.00	PASS
N70	15	15	DFT-256QAM	M	Inner_1RB_Right	16.59	13.44	18.30	18.63	30.00	PASS
N70	15	15	DFT-256QAM	M	Outer_Full	16.46	13.75	18.32	18.65	30.00	PASS

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Peak-to-Average Ratio for SA

Peak-to-Average Ratio(PAPR)

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	DutyCycle	Factor	Result	Limit	Verdict
N70	15	15	DFT-256QAM	L	Outer_Full	100%	0.00	8.81	≤13	PASS
N70	15	15	CP-256QAM	L	Outer_Full	100%	0.00	9.64	≤13	PASS
N70	15	15	DFT-256QAM	M	Outer_Full	100%	0.00	8.83	≤13	PASS
N70	15	15	CP-256QAM	M	Outer_Full	100%	0.00	9.67	≤13	PASS
N70	15	15	DFT-256QAM	H	Outer_Full	100%	0.00	8.89	≤13	PASS
N70	15	15	CP-256QAM	H	Outer_Full	100%	0.00	9.72	≤13	PASS

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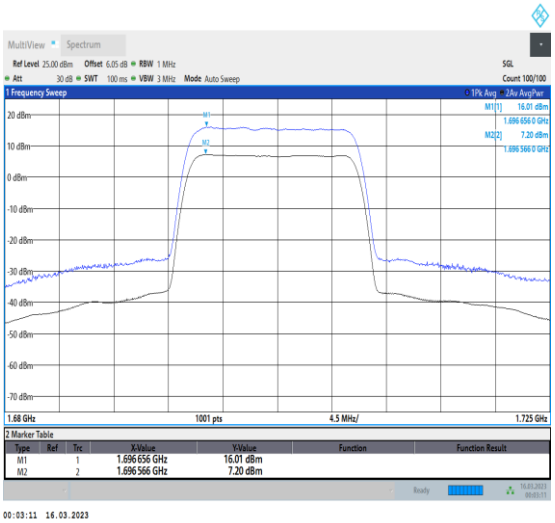
Test Graphs



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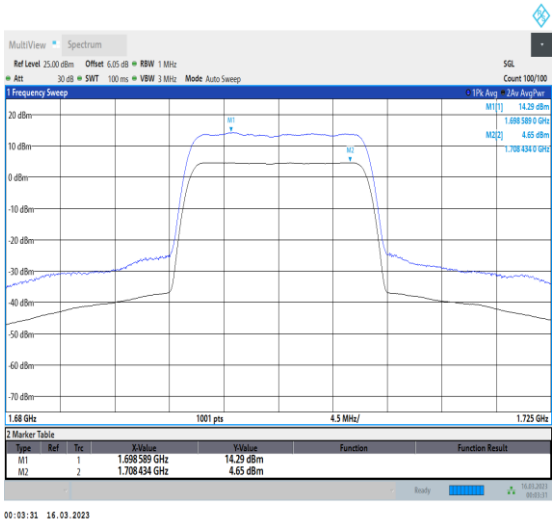

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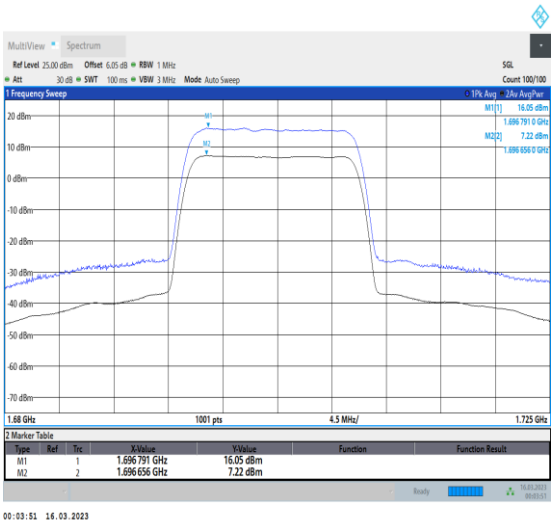

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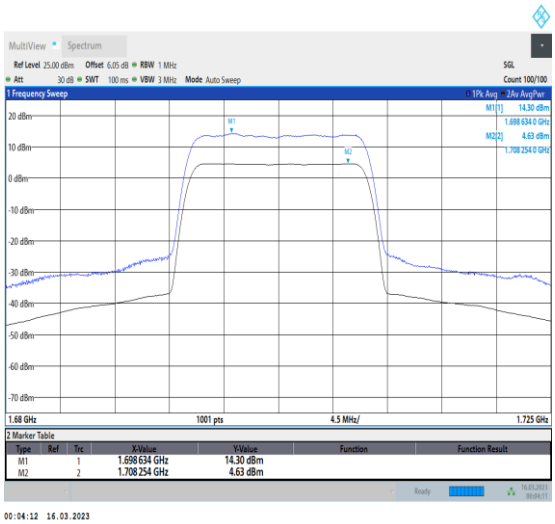

1-N70-PC3-15-15-M-2-CP-256QAM-Outer_Full-79@0-Ant7-9.67-100%-0.00-9.67-PASS-≤13

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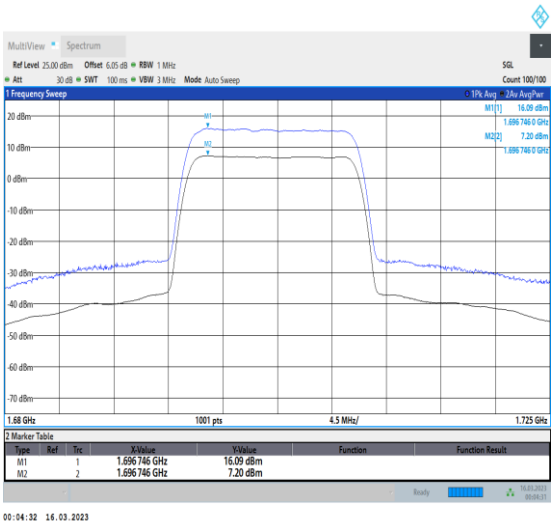

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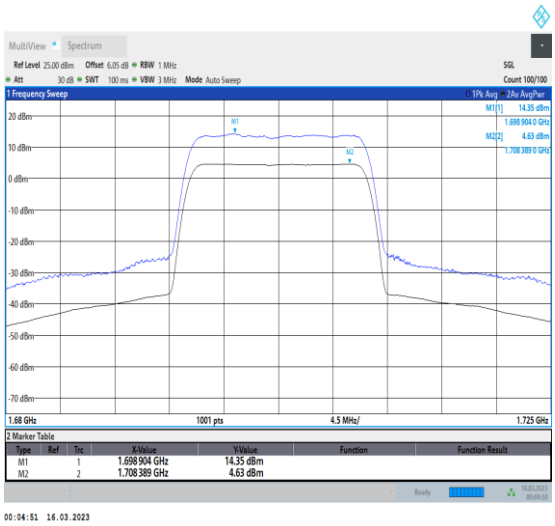

1-N70-PC3-15-15-H-2-CP-256QAM-Outer_Full-79@0-Ant7-9.72-100%-0.00-9.72-PASS-≤13

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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
N70	15	5	DFT-QPSK	L	Outer_Full	4.469	4.810	PASS
N70	15	5	DFT-PI2BPSK	L	Outer_Full	4.47	4.810	PASS
N70	15	5	DFT-16QAM	L	Outer_Full	4.464	4.840	PASS
N70	15	5	DFT-64QAM	L	Outer_Full	4.471	4.770	PASS
N70	15	5	DFT-256QAM	L	Outer_Full	4.466	4.830	PASS
N70	15	5	CP-QPSK	L	Outer_Full	4.467	4.820	PASS
N70	15	5	CP-16QAM	L	Outer_Full	4.465	4.810	PASS
N70	15	5	CP-64QAM	L	Outer_Full	4.469	4.780	PASS
N70	15	5	CP-256QAM	L	Outer_Full	4.466	4.780	PASS
N70	15	5	DFT-QPSK	M	Outer_Full	4.454	4.820	PASS
N70	15	5	DFT-PI2BPSK	M	Outer_Full	4.477	4.830	PASS
N70	15	5	DFT-16QAM	M	Outer_Full	4.463	4.810	PASS
N70	15	5	DFT-64QAM	M	Outer_Full	4.463	4.790	PASS
N70	15	5	DFT-256QAM	M	Outer_Full	4.454	4.800	PASS
N70	15	5	CP-QPSK	M	Outer_Full	4.465	4.870	PASS
N70	15	5	CP-16QAM	M	Outer_Full	4.469	4.860	PASS
N70	15	5	CP-64QAM	M	Outer_Full	4.466	4.830	PASS
N70	15	5	CP-256QAM	M	Outer_Full	4.471	4.820	PASS
N70	15	5	DFT-QPSK	H	Outer_Full	4.466	4.790	PASS
N70	15	5	DFT-PI2BPSK	H	Outer_Full	4.467	4.780	PASS
N70	15	5	DFT-16QAM	H	Outer_Full	4.467	4.800	PASS
N70	15	5	DFT-64QAM	H	Outer_Full	4.456	4.790	PASS
N70	15	5	DFT-256QAM	H	Outer_Full	4.462	4.750	PASS
N70	15	5	CP-QPSK	H	Outer_Full	4.463	4.830	PASS
N70	15	5	CP-16QAM	H	Outer_Full	4.47	4.850	PASS
N70	15	5	CP-64QAM	H	Outer_Full	4.476	4.790	PASS
N70	15	5	CP-256QAM	H	Outer_Full	4.474	4.840	PASS
N70	15	10	DFT-QPSK	L	Outer_Full	8.903	9.420	PASS
N70	15	10	DFT-PI2BPSK	L	Outer_Full	8.909	9.420	PASS
N70	15	10	DFT-16QAM	L	Outer_Full	8.907	9.380	PASS

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N70	15	10	DFT-64QAM	L	Outer_Full	8.911	9.400	PASS
N70	15	10	DFT-256QAM	L	Outer_Full	8.909	9.360	PASS
N70	15	10	CP-QPSK	L	Outer_Full	9.274	9.800	PASS
N70	15	10	CP-16QAM	L	Outer_Full	9.27	9.740	PASS
N70	15	10	CP-64QAM	L	Outer_Full	9.276	9.780	PASS
N70	15	10	CP-256QAM	L	Outer_Full	9.289	9.800	PASS
N70	15	10	DFT-QPSK	M	Outer_Full	8.924	9.420	PASS
N70	15	10	DFT-PI2BPSK	M	Outer_Full	8.919	9.480	PASS
N70	15	10	DFT-16QAM	M	Outer_Full	8.908	9.360	PASS
N70	15	10	DFT-64QAM	M	Outer_Full	8.921	9.420	PASS
N70	15	10	DFT-256QAM	M	Outer_Full	8.911	9.400	PASS
N70	15	10	CP-QPSK	M	Outer_Full	9.29	9.740	PASS
N70	15	10	CP-16QAM	M	Outer_Full	9.269	9.720	PASS
N70	15	10	CP-64QAM	M	Outer_Full	9.284	9.760	PASS
N70	15	10	CP-256QAM	M	Outer_Full	9.272	9.800	PASS
N70	15	10	DFT-QPSK	H	Outer_Full	8.925	9.380	PASS
N70	15	10	DFT-PI2BPSK	H	Outer_Full	8.914	9.420	PASS
N70	15	10	DFT-16QAM	H	Outer_Full	8.901	9.340	PASS
N70	15	10	DFT-64QAM	H	Outer_Full	8.901	9.400	PASS
N70	15	10	DFT-256QAM	H	Outer_Full	8.912	9.380	PASS
N70	15	10	CP-QPSK	H	Outer_Full	9.282	9.800	PASS
N70	15	10	CP-16QAM	H	Outer_Full	9.276	9.800	PASS
N70	15	10	CP-64QAM	H	Outer_Full	9.298	9.760	PASS
N70	15	10	CP-256QAM	H	Outer_Full	9.292	9.780	PASS
N70	15	15	DFT-QPSK	L	Outer_Full	13.434	14.070	PASS
N70	15	15	DFT-PI2BPSK	L	Outer_Full	13.432	14.040	PASS
N70	15	15	DFT-16QAM	L	Outer_Full	13.438	14.160	PASS
N70	15	15	DFT-64QAM	L	Outer_Full	13.438	14.130	PASS
N70	15	15	DFT-256QAM	L	Outer_Full	13.425	14.100	PASS
N70	15	15	CP-QPSK	L	Outer_Full	14.096	14.850	PASS
N70	15	15	CP-16QAM	L	Outer_Full	14.163	14.790	PASS
N70	15	15	CP-64QAM	L	Outer_Full	14.134	14.820	PASS
N70	15	15	CP-256QAM	L	Outer_Full	14.124	14.790	PASS
N70	15	15	DFT-QPSK	M	Outer_Full	13.444	14.040	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	13.447	14.160	PASS
N70	15	15	DFT-16QAM	M	Outer_Full	13.408	14.100	PASS
N70	15	15	DFT-64QAM	M	Outer_Full	13.455	14.100	PASS

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N70	15	15	DFT-256QAM	M	Outer_Full	13.418	14.100	PASS
N70	15	15	CP-QPSK	M	Outer_Full	14.097	14.850	PASS
N70	15	15	CP-16QAM	M	Outer_Full	14.162	14.760	PASS
N70	15	15	CP-64QAM	M	Outer_Full	14.099	14.790	PASS
N70	15	15	CP-256QAM	M	Outer_Full	14.139	14.730	PASS
N70	15	15	DFT-QPSK	H	Outer_Full	13.44	14.070	PASS
N70	15	15	DFT-PI2BPSK	H	Outer_Full	13.43	14.160	PASS
N70	15	15	DFT-16QAM	H	Outer_Full	13.423	14.130	PASS
N70	15	15	DFT-64QAM	H	Outer_Full	13.418	14.100	PASS
N70	15	15	DFT-256QAM	H	Outer_Full	13.435	14.040	PASS
N70	15	15	CP-QPSK	H	Outer_Full	14.117	15.540	PASS
N70	15	15	CP-16QAM	H	Outer_Full	14.129	14.820	PASS
N70	15	15	CP-64QAM	H	Outer_Full	14.095	14.760	PASS
N70	15	15	CP-256QAM	H	Outer_Full	14.109	14.820	PASS

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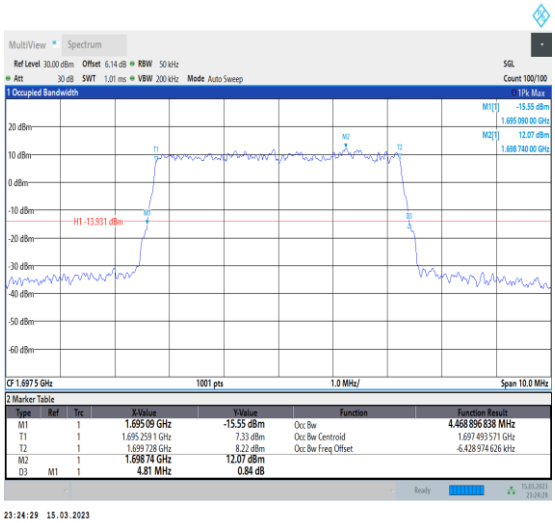
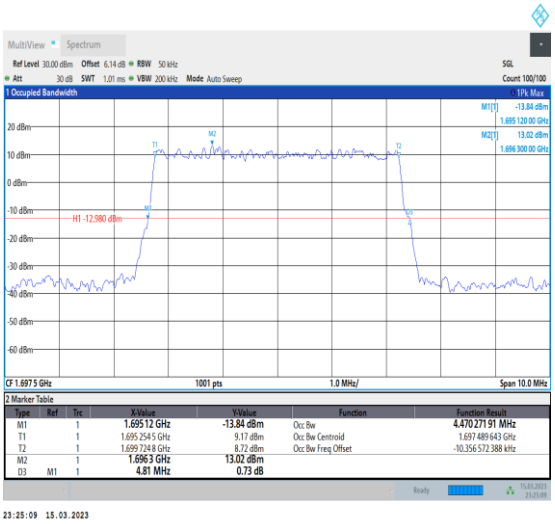
Test Graphs



1-N70-PC3-15-5-L-1-DFT-QPSK-Outer_Full-25@0-Ant7-4.469-4.810-≤5-PASS



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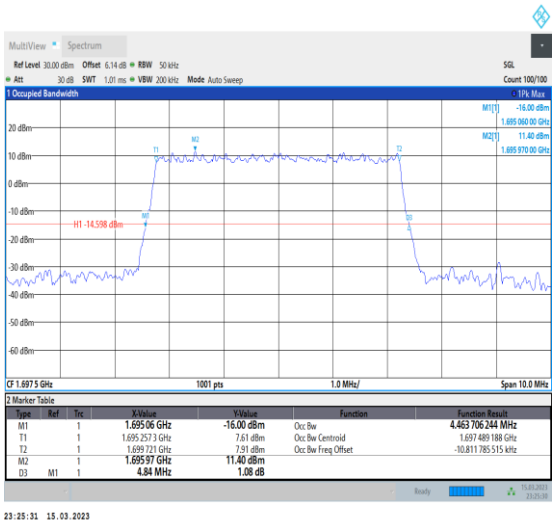

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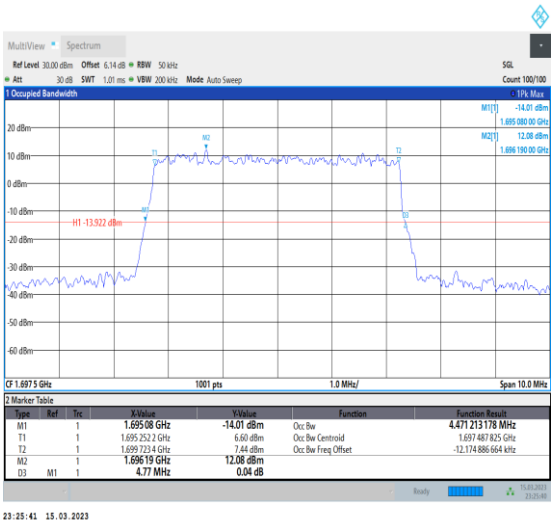

1-N70-PC3-15-5-L-4-DFT-64QAM-Outer_Full-25@0-Ant7-4.471-4.770-≤5-PASS

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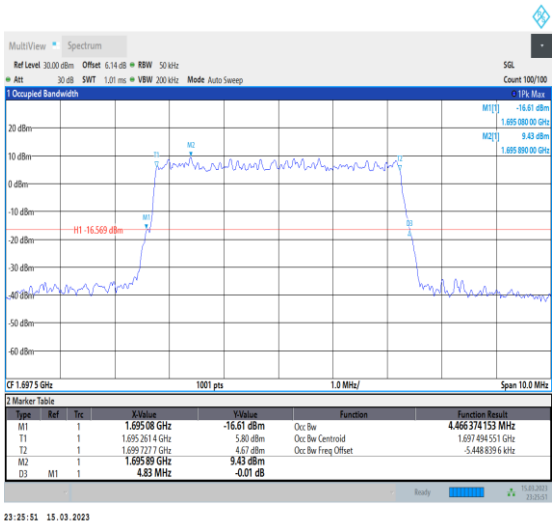

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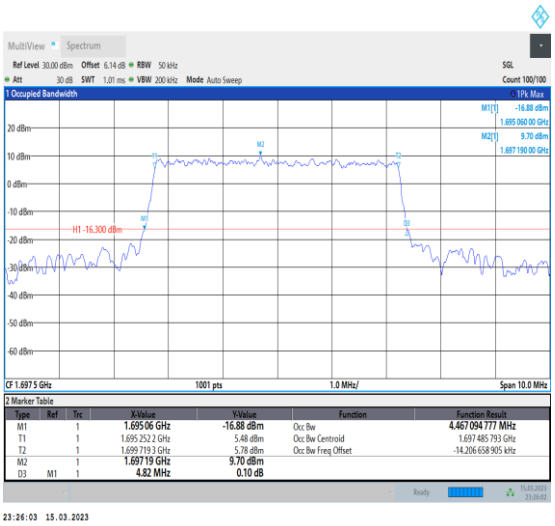

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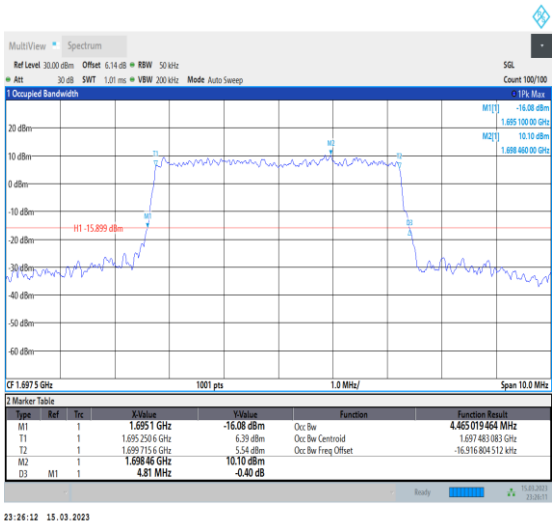

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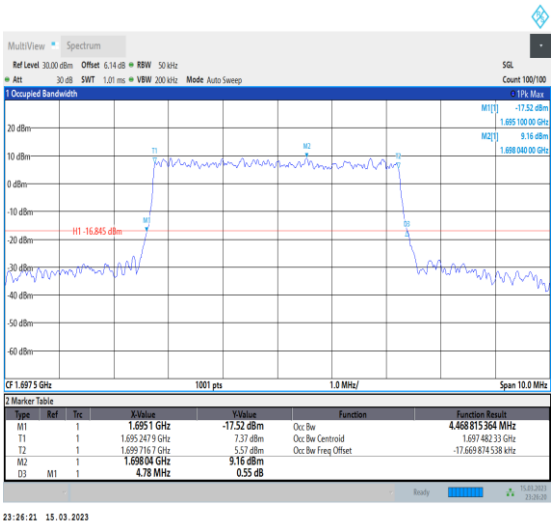

1-N70-PC3-15-5-L-8-CP-64QAM-Outer_Full-25@0-Ant7-4.469-4.780-≤5-PASS

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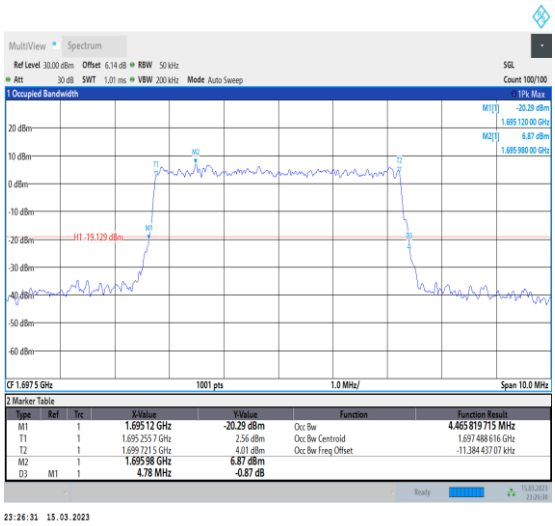

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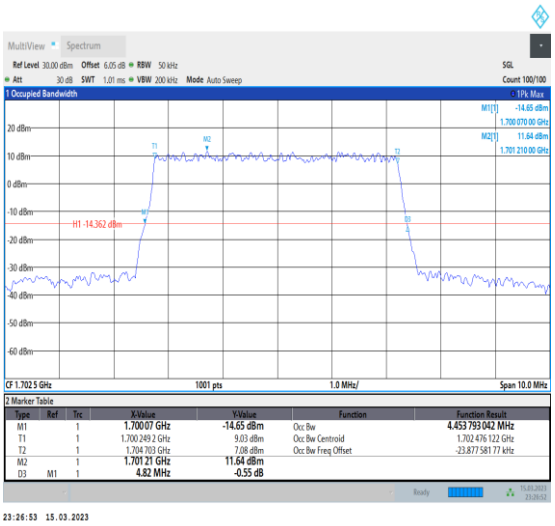

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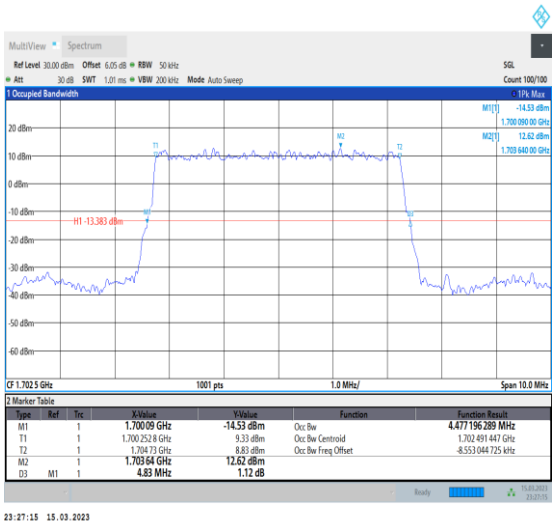

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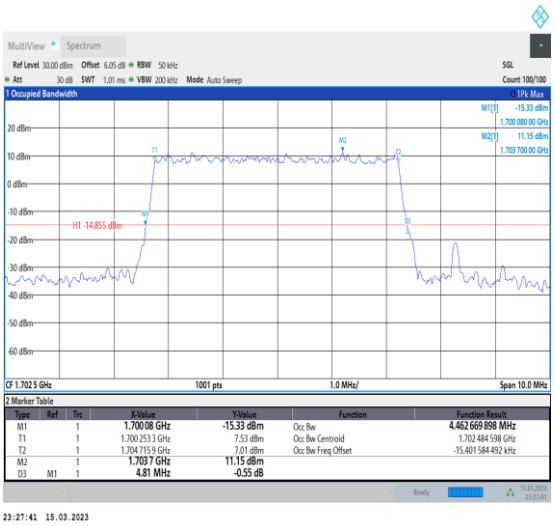

1-N70-PC3-15-5-M-3-DFT-16QAM-Outer_Full-25@0-Ant7-4.463-4.810-≤5-PASS

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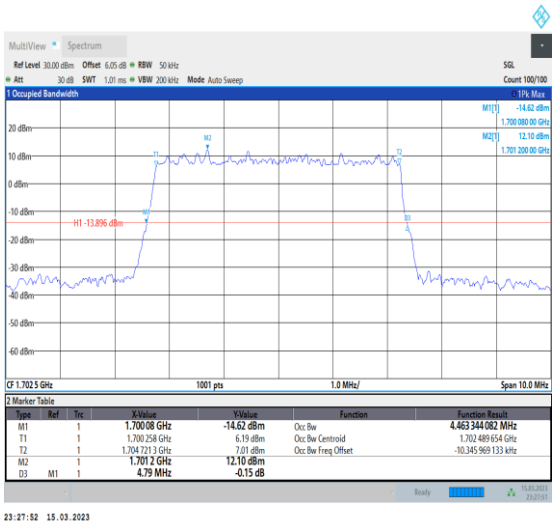

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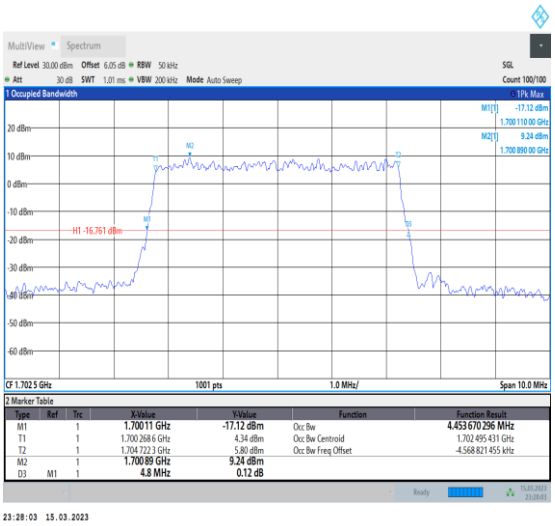

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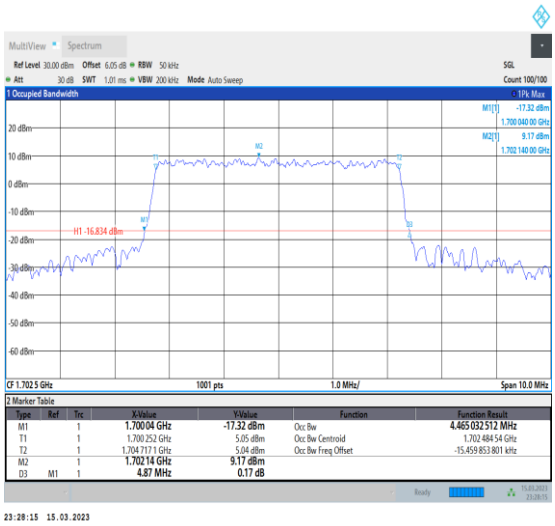

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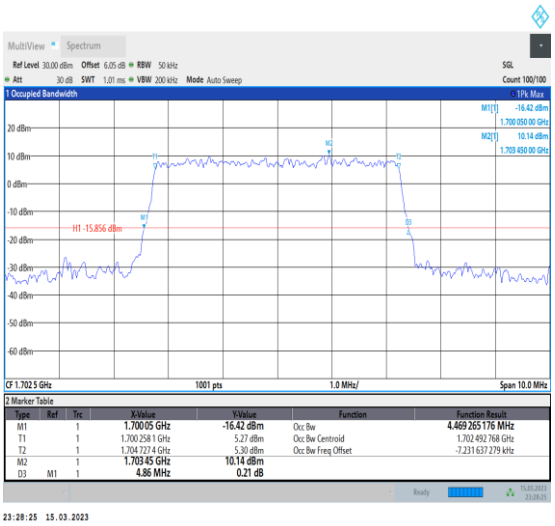

1-N70-PC3-15-5-M-7-CP-16QAM-Outer_Full-25@0-Ant7-4.469-4.860-≤5-PASS

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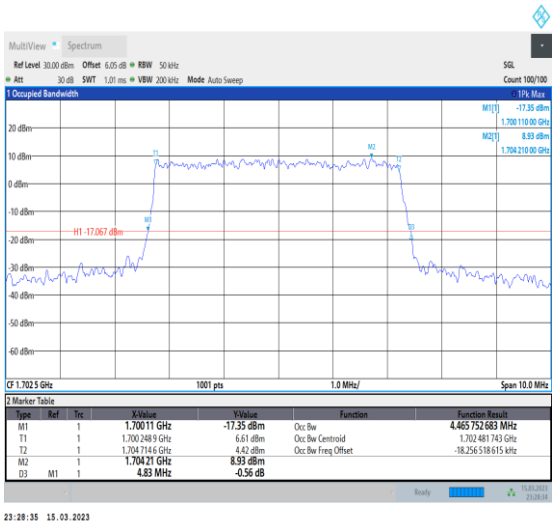

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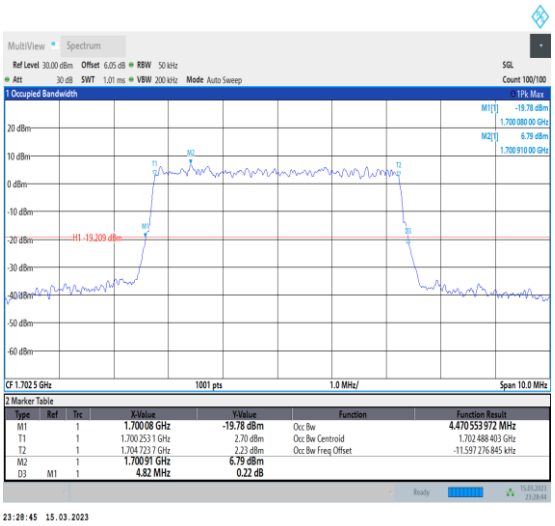

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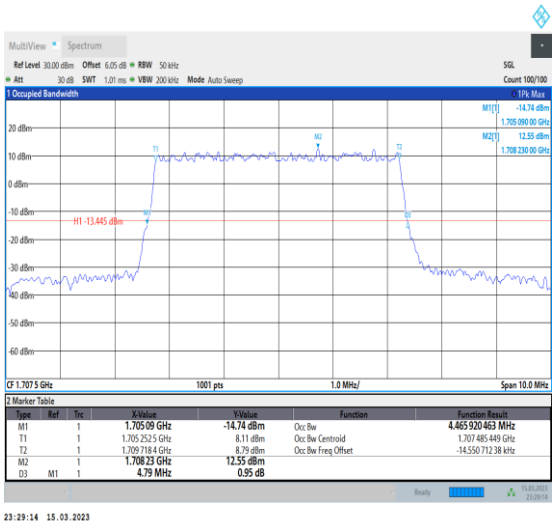

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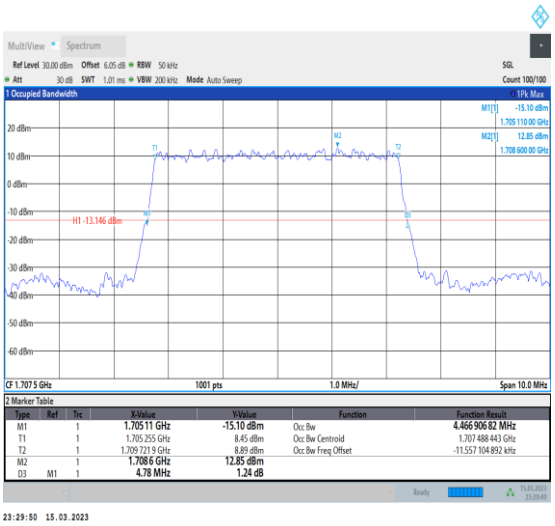

1-N70-PC3-15-5-H-2-DFT-PI2BPSK-Outer_Full-25@0-Ant7-4.467-4.780-≤5-PASS

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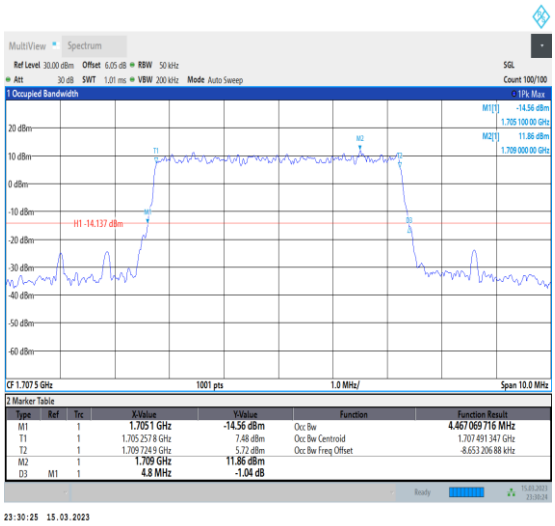

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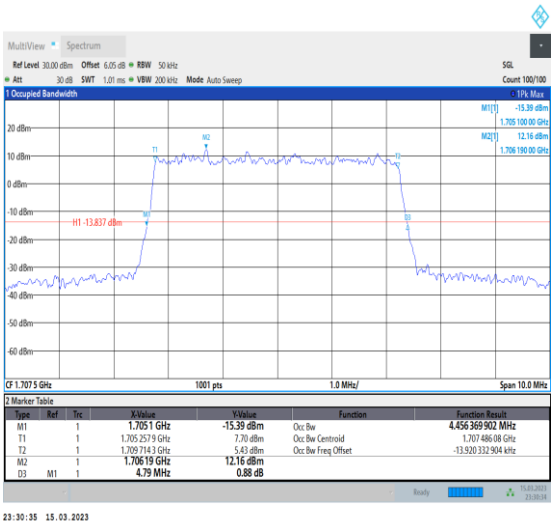

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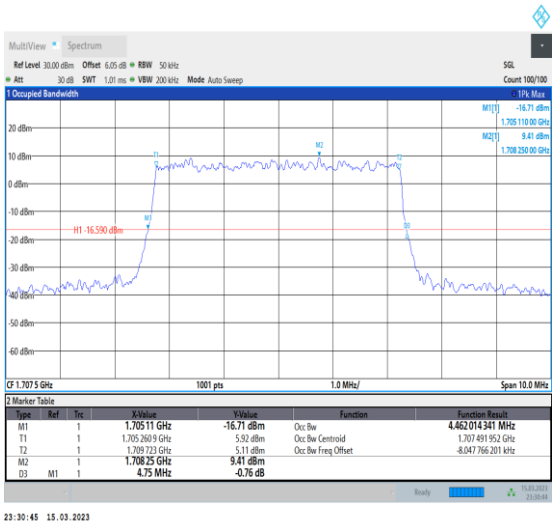

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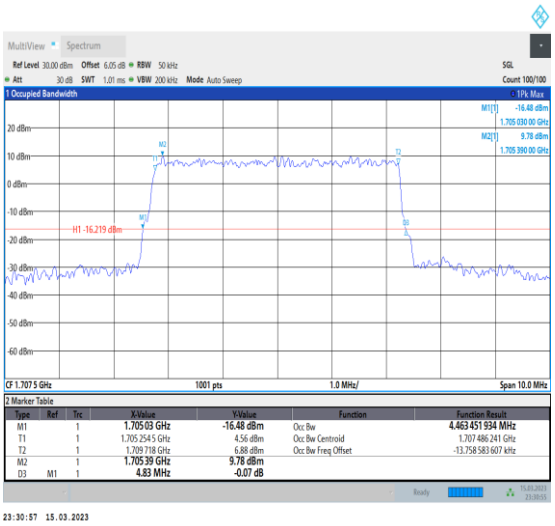

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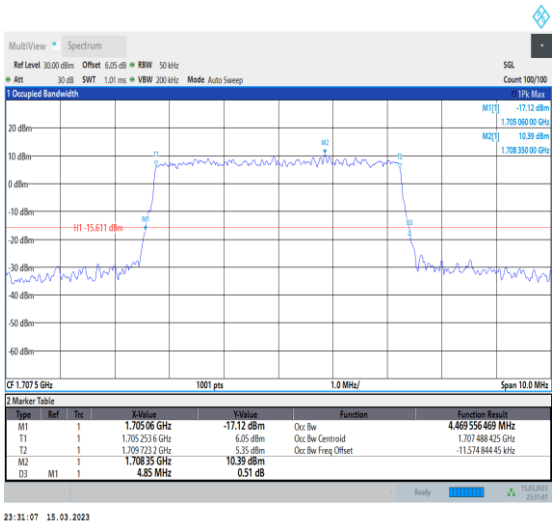

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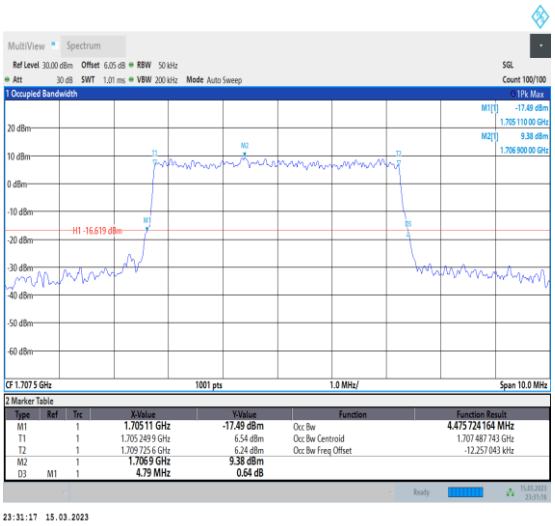

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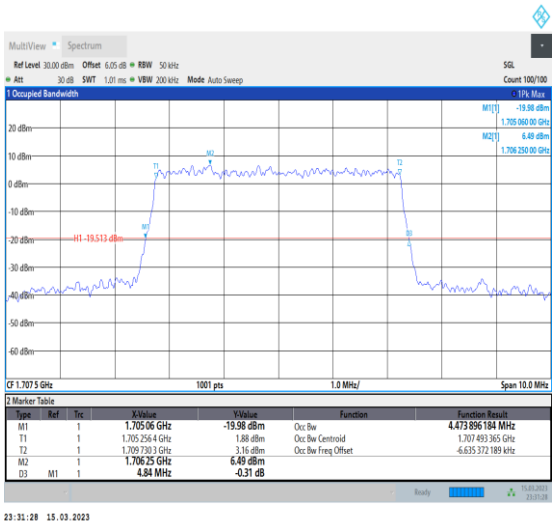

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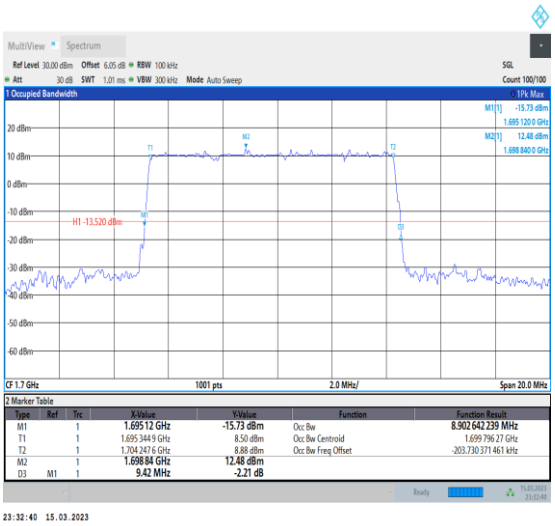

1-N70-PC3-15-10-L-1-DFT-QPSK-Outer_Full-50@0-Ant7-8.903-9.420-≤10-PASS

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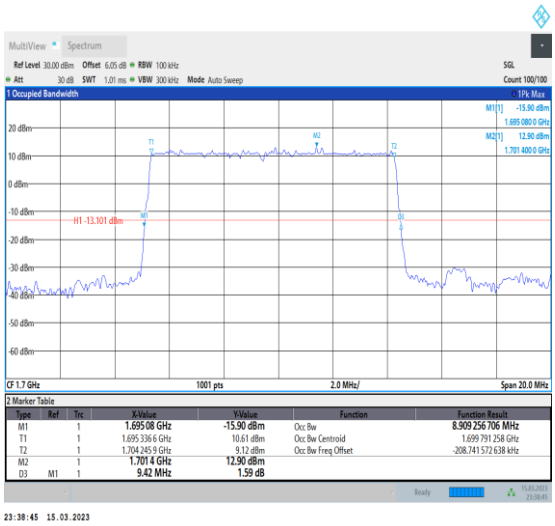

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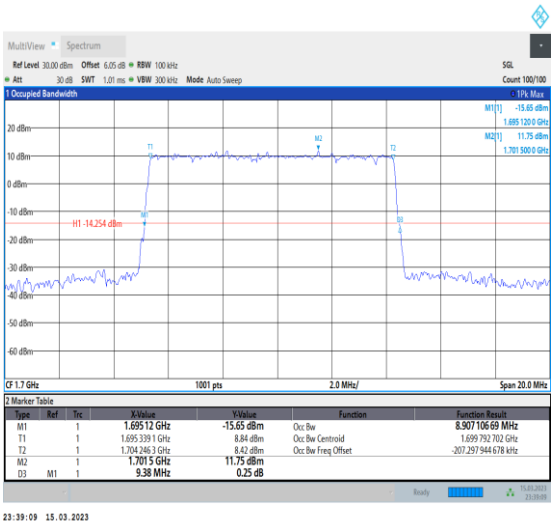

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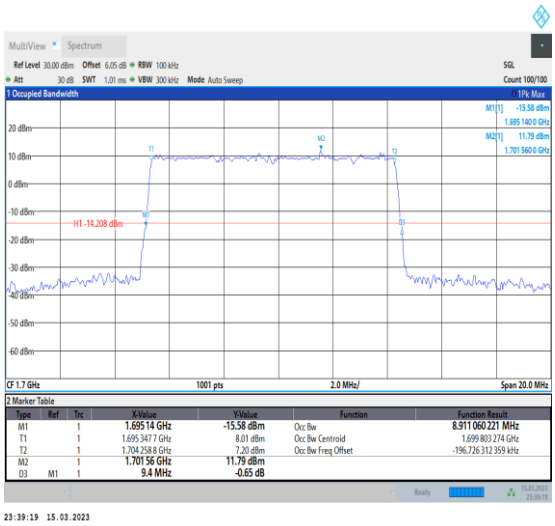

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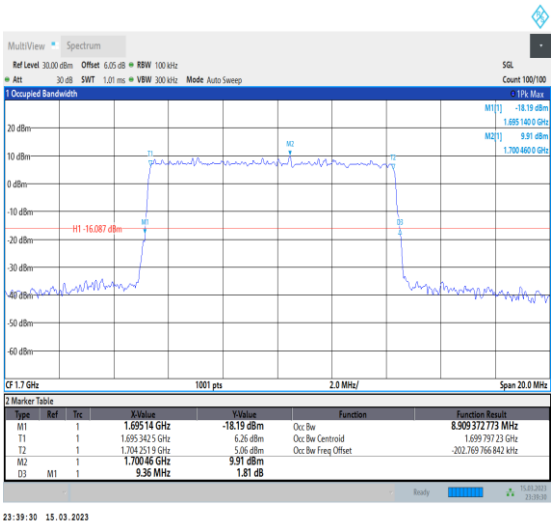

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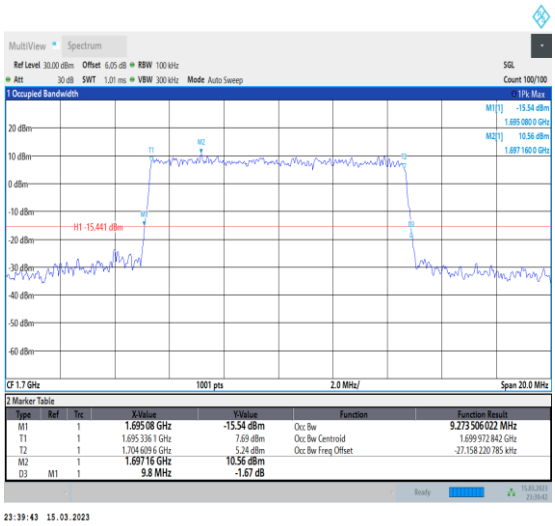

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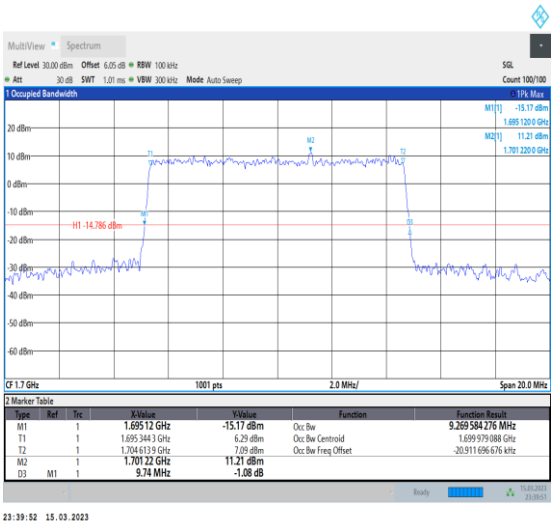

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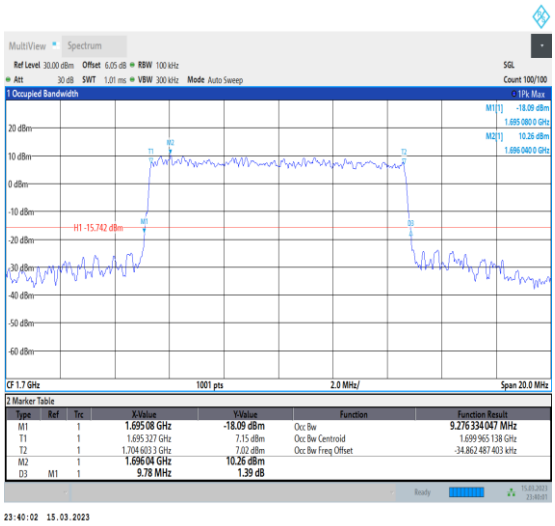

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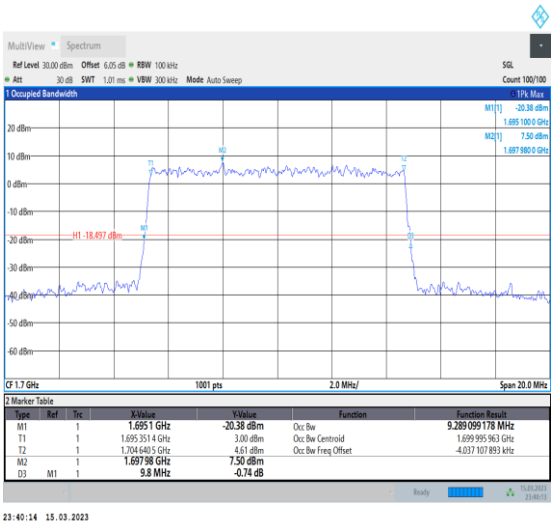

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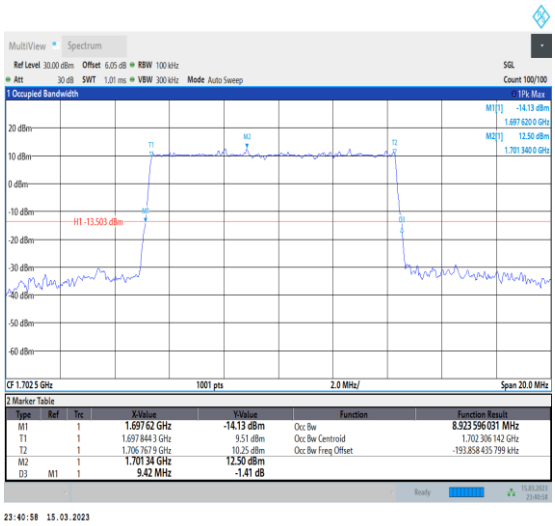

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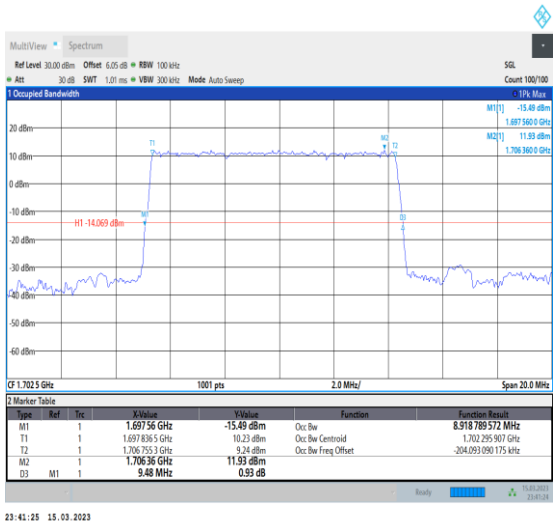

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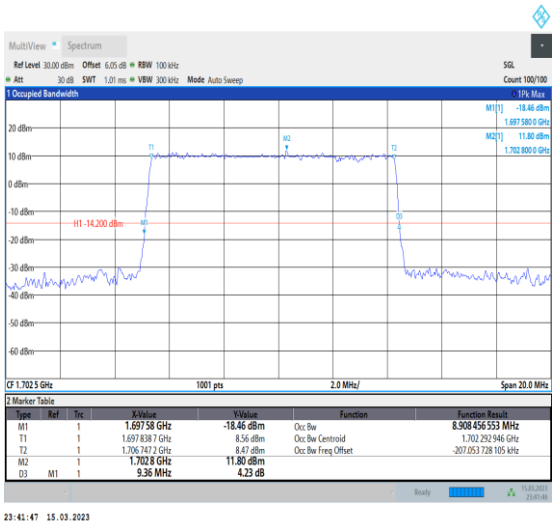

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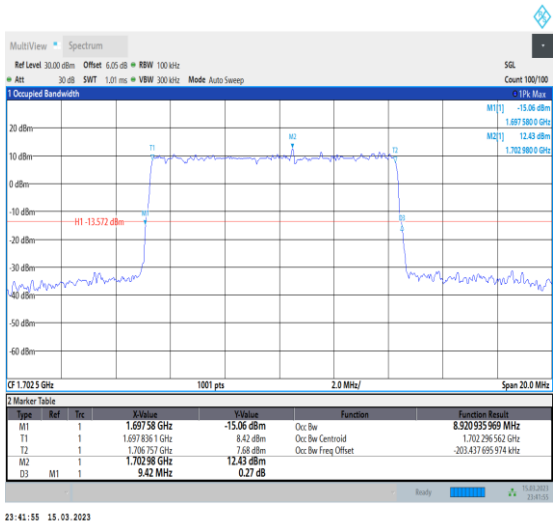

1-N70-PC3-15-10-M-4-DFT-64QAM-Outer_Full-50@0-Ant7-8.921-9.420-≤10-PASS

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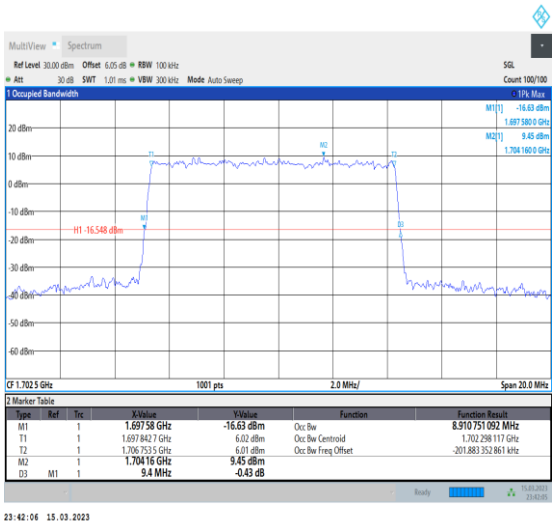

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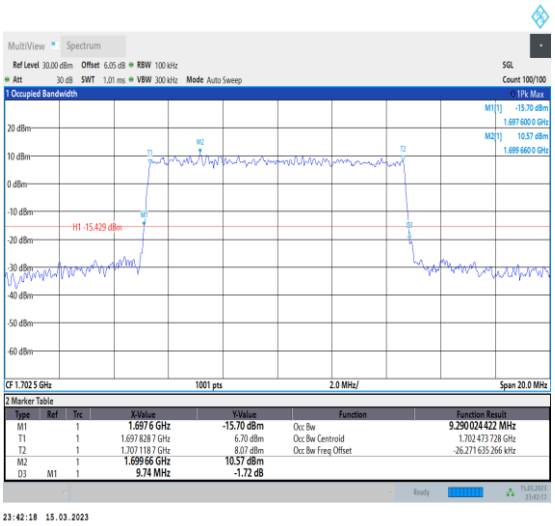

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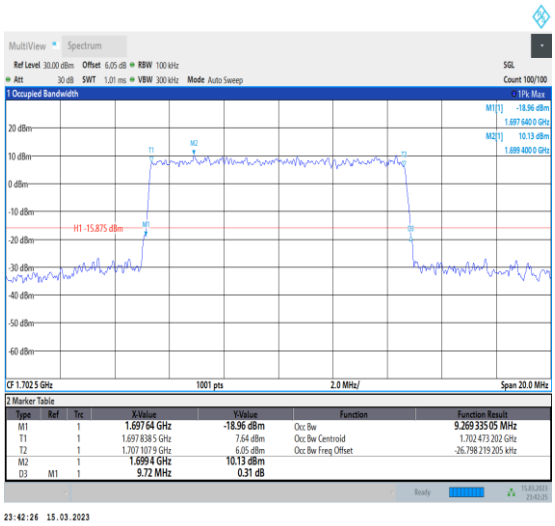

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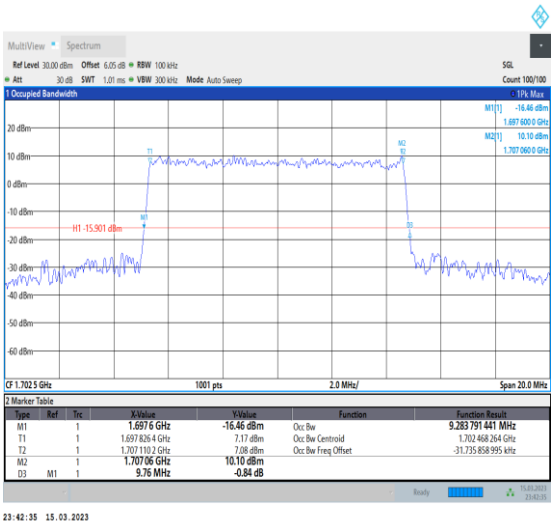

1-N70-PC3-15-10-M-8-CP-64QAM-Outer_Full-52@0-Ant7-9.284-9.760-≤10-PASS

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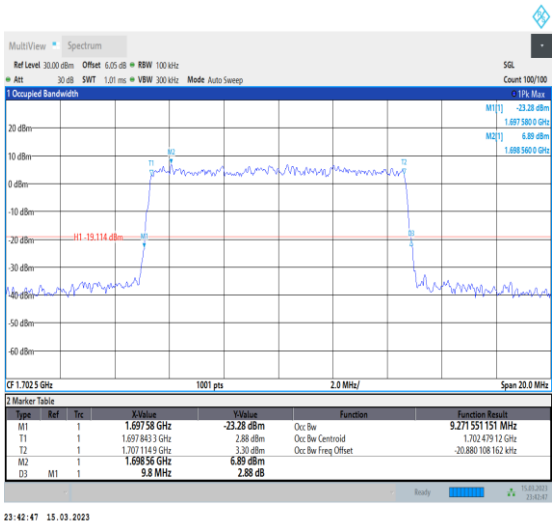

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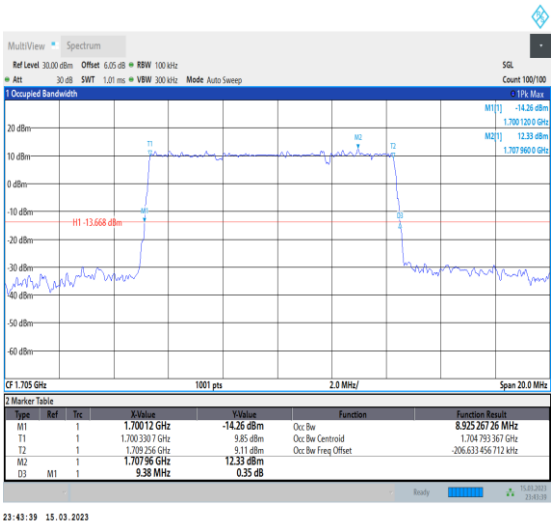

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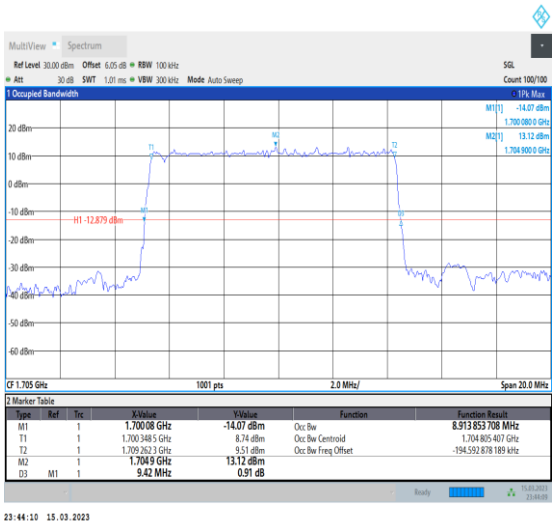

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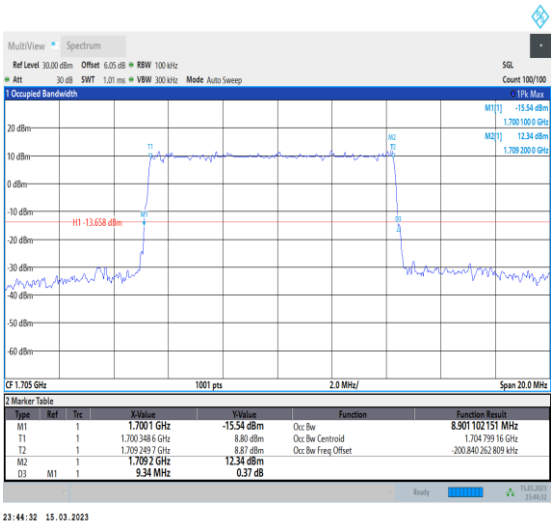

1-N70-PC3-15-10-H-3-DFT-16QAM-Outer_Full-50@0-Ant7-8.901-9.340-≤10-PASS

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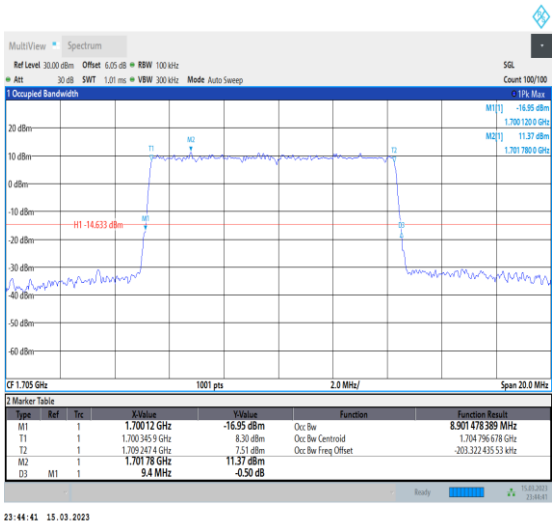

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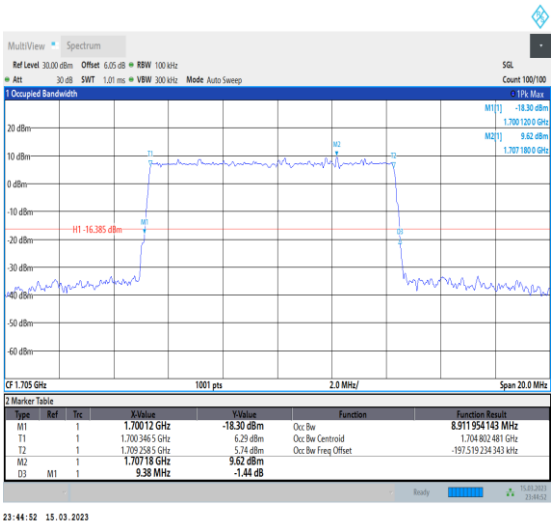

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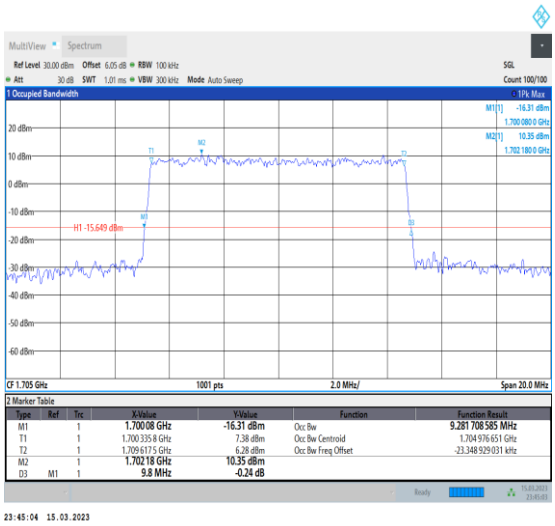

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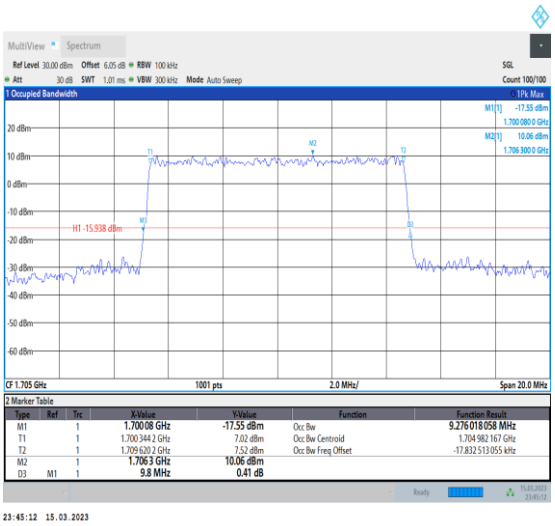

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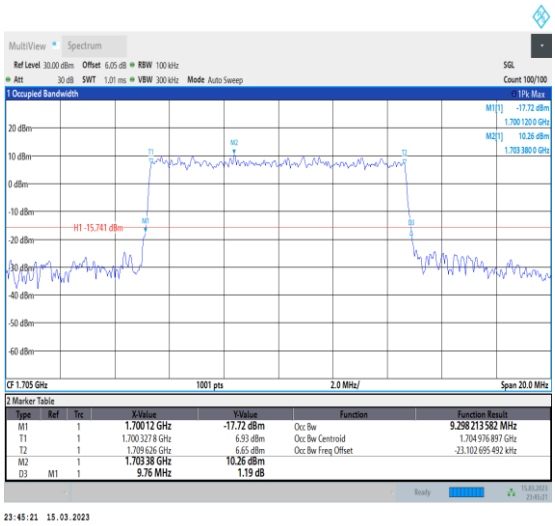

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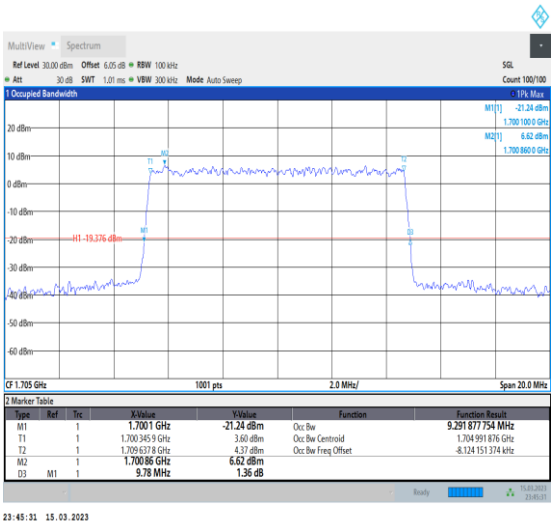

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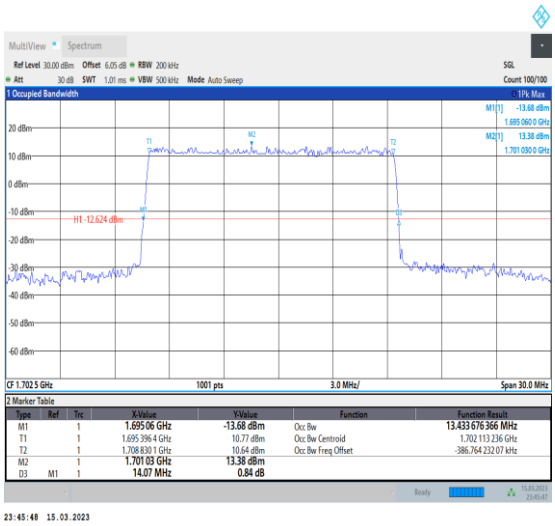

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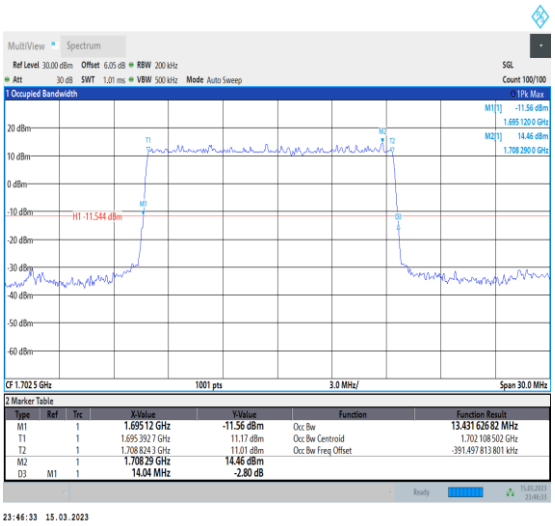

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