Appendix B.31

NR Band n14

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Effective (Isotropic) Radiated Power Output Data for SA

Test ResultAnt7

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
N14	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	23.38	10.28	34.77	PASS
N14	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	23.33	10.23	34.77	PASS
N14	15	5	DFT-PI2BPSK	L	Outer_Full	22.88	9.78	34.77	PASS
N14	15	5	DFT-QPSK	L	Inner_1RB_Left	23.48	10.38	34.77	PASS
N14	15	5	DFT-QPSK	L	Inner_1RB_Right	23.42	10.32	34.77	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	22.42	9.32	34.77	PASS
N14	15	5	DFT-16QAM	L	Inner_1RB_Left	22.09	8.99	34.77	PASS
N14	15	5	DFT-16QAM	L	Inner_1RB_Right	22.12	9.02	34.77	PASS
N14	15	5	DFT-16QAM	L	Outer_Full	21.34	8.24	34.77	PASS
N14	15	5	DFT-64QAM	L	Inner_1RB_Left	20.72	7.62	34.77	PASS
N14	15	5	DFT-64QAM	L	Inner_1RB_Right	20.77	7.67	34.77	PASS
N14	15	5	DFT-64QAM	L	Outer_Full	20.91	7.81	34.77	PASS
N14	15	5	DFT-256QAM	L	Inner_1RB_Left	19.1	6	34.77	PASS
N14	15	5	DFT-256QAM	L	Inner_1RB_Right	19	5.9	34.77	PASS
N14	15	5	DFT-256QAM	L	Outer_Full	18.91	5.81	34.77	PASS
N14	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	23.39	10.29	34.77	PASS
N14	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	23.54	10.44	34.77	PASS
N14	15	5	DFT-PI2BPSK	M	Outer_Full	22.87	9.77	34.77	PASS
N14	15	5	DFT-QPSK	M	Inner_1RB_Left	23.5	10.4	34.77	PASS
N14	15	5	DFT-QPSK	M	Inner_1RB_Right	23.43	10.33	34.77	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	22.38	9.28	34.77	PASS
N14	15	5	DFT-16QAM	M	Inner_1RB_Left	22.17	9.07	34.77	PASS
N14	15	5	DFT-16QAM	M	Inner_1RB_Right	22.23	9.13	34.77	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	21.49	8.39	34.77	PASS
N14	15	5	DFT-64QAM	M	Inner_1RB_Left	20.77	7.67	34.77	PASS
N14	15	5	DFT-64QAM	M	Inner_1RB_Right	20.61	7.51	34.77	PASS
N14	15	5	DFT-64QAM	M	Outer_Full	20.9	7.8	34.77	PASS
N14	15	5	DFT-256QAM	M	Inner_1RB_Left	18.89	5.79	34.77	PASS
N14	15	5	DFT-256QAM	M	Inner_1RB_Right	19.06	5.96	34.77	PASS
N14	15	5	DFT-256QAM	M	Outer_Full	18.79	5.69	34.77	PASS
N14	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	23.61	10.51	34.77	PASS

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N14	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	23.53	10.43	34.77	PASS
N14	15	5	DFT-PI2BPSK	H	Outer_Full	23.24	10.14	34.77	PASS
N14	15	5	DFT-QPSK	H	Inner_1RB_Left	23.33	10.23	34.77	PASS
N14	15	5	DFT-QPSK	H	Inner_1RB_Right	23.5	10.4	34.77	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	22.51	9.41	34.77	PASS
N14	15	5	DFT-16QAM	H	Inner_1RB_Left	22.24	9.14	34.77	PASS
N14	15	5	DFT-16QAM	H	Inner_1RB_Right	22.21	9.11	34.77	PASS
N14	15	5	DFT-16QAM	H	Outer_Full	21.54	8.44	34.77	PASS
N14	15	5	DFT-64QAM	H	Inner_1RB_Left	20.75	7.65	34.77	PASS
N14	15	5	DFT-64QAM	H	Inner_1RB_Right	20.85	7.75	34.77	PASS
N14	15	5	DFT-64QAM	H	Outer_Full	20.99	7.89	34.77	PASS
N14	15	5	DFT-256QAM	H	Inner_1RB_Left	18.93	5.83	34.77	PASS
N14	15	5	DFT-256QAM	H	Inner_1RB_Right	18.97	5.87	34.77	PASS
N14	15	5	DFT-256QAM	H	Outer_Full	18.93	5.83	34.77	PASS
N14	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	23.47	10.37	34.77	PASS
N14	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	23.62	10.52	34.77	PASS
N14	15	10	DFT-PI2BPSK	L	Outer_Full	22.98	9.88	34.77	PASS
N14	15	10	DFT-QPSK	L	Inner_1RB_Left	23.42	10.32	34.77	PASS
N14	15	10	DFT-QPSK	L	Inner_1RB_Right	23.46	10.36	34.77	PASS
N14	15	10	DFT-QPSK	L	Outer_Full	22.43	9.33	34.77	PASS
N14	15	10	DFT-16QAM	L	Inner_1RB_Left	22.09	8.99	34.77	PASS
N14	15	10	DFT-16QAM	L	Inner_1RB_Right	22.23	9.13	34.77	PASS
N14	15	10	DFT-16QAM	L	Outer_Full	21.37	8.27	34.77	PASS
N14	15	10	DFT-64QAM	L	Inner_1RB_Left	20.68	7.58	34.77	PASS
N14	15	10	DFT-64QAM	L	Inner_1RB_Right	20.74	7.64	34.77	PASS
N14	15	10	DFT-64QAM	L	Outer_Full	20.88	7.78	34.77	PASS
N14	15	10	DFT-256QAM	L	Inner_1RB_Left	19.08	5.98	34.77	PASS
N14	15	10	DFT-256QAM	L	Inner_1RB_Right	19.06	5.96	34.77	PASS
N14	15	10	DFT-256QAM	L	Outer_Full	18.83	5.73	34.77	PASS
N14	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	23.41	10.31	34.77	PASS
N14	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	23.46	10.36	34.77	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	22.94	9.84	34.77	PASS
N14	15	10	DFT-QPSK	M	Inner_1RB_Left	23.48	10.38	34.77	PASS
N14	15	10	DFT-QPSK	M	Inner_1RB_Right	23.36	10.26	34.77	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	22.55	9.45	34.77	PASS
N14	15	10	DFT-16QAM	M	Inner_1RB_Left	22.23	9.13	34.77	PASS
N14	15	10	DFT-16QAM	M	Inner_1RB_Right	22.13	9.03	34.77	PASS

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N14	15	10	DFT-16QAM	M	Outer_Full	21.44	8.34	34.77	PASS
N14	15	10	DFT-64QAM	M	Inner_1RB_Left	20.69	7.59	34.77	PASS
N14	15	10	DFT-64QAM	M	Inner_1RB_Right	20.71	7.61	34.77	PASS
N14	15	10	DFT-64QAM	M	Outer_Full	20.78	7.68	34.77	PASS
N14	15	10	DFT-256QAM	M	Inner_1RB_Left	19.04	5.94	34.77	PASS
N14	15	10	DFT-256QAM	M	Inner_1RB_Right	19.2	6.1	34.77	PASS
N14	15	10	DFT-256QAM	M	Outer_Full	18.93	5.83	34.77	PASS
N14	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	23.4	10.3	34.77	PASS
N14	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	23.54	10.44	34.77	PASS
N14	15	10	DFT-PI2BPSK	H	Outer_Full	22.97	9.87	34.77	PASS
N14	15	10	DFT-QPSK	H	Inner_1RB_Left	23.48	10.38	34.77	PASS
N14	15	10	DFT-QPSK	H	Inner_1RB_Right	23.56	10.46	34.77	PASS
N14	15	10	DFT-QPSK	H	Outer_Full	22.39	9.29	34.77	PASS
N14	15	10	DFT-16QAM	H	Inner_1RB_Left	22.08	8.98	34.77	PASS
N14	15	10	DFT-16QAM	H	Inner_1RB_Right	22.28	9.18	34.77	PASS
N14	15	10	DFT-16QAM	H	Outer_Full	21.49	8.39	34.77	PASS
N14	15	10	DFT-64QAM	H	Inner_1RB_Left	20.65	7.55	34.77	PASS
N14	15	10	DFT-64QAM	H	Inner_1RB_Right	20.89	7.79	34.77	PASS
N14	15	10	DFT-64QAM	H	Outer_Full	20.97	7.87	34.77	PASS
N14	15	10	DFT-256QAM	H	Inner_1RB_Left	18.96	5.86	34.77	PASS
N14	15	10	DFT-256QAM	H	Inner_1RB_Right	19	5.9	34.77	PASS
N14	15	10	DFT-256QAM	H	Outer_Full	18.91	5.81	34.77	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
N14	15	10	DFT-256QAM	M	Outer_Full	100%	0.00	8.45	≤13	PASS
N14	15	10	CP-256QAM	M	Outer_Full	100%	0.00	9.48	≤13	PASS

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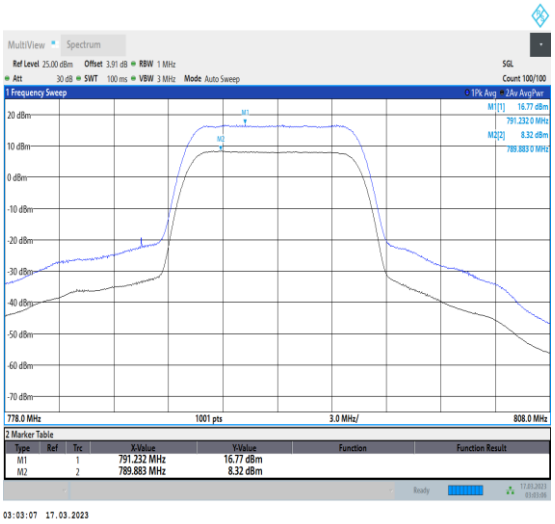
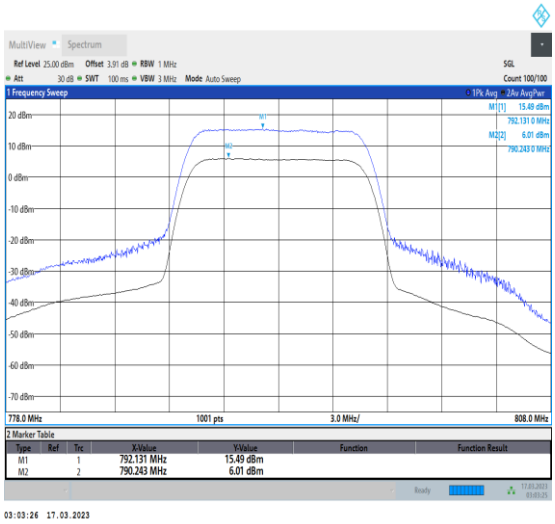
Test Graphs

	
1-N14-PC3-15-10-M-1-DFT-256QAM-Outer_Full-50 @0-Ant7-8.45-100%-0.00-8.45-PASS-≤13	1-N14-PC3-15-10-M-2-CP-256QAM-Outer_Full-52 @0-Ant7-9.48-100%-0.00-9.48-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
N14	15	5	DFT-QPSK	L	Outer_Full	4.472	4.820	PASS
N14	15	5	DFT-PI2BPSK	L	Outer_Full	4.483	4.790	PASS
N14	15	5	DFT-16QAM	L	Outer_Full	4.483	4.800	PASS
N14	15	5	DFT-64QAM	L	Outer_Full	4.459	4.810	PASS
N14	15	5	DFT-256QAM	L	Outer_Full	4.465	4.800	PASS
N14	15	5	CP-QPSK	L	Outer_Full	4.468	4.820	PASS
N14	15	5	CP-16QAM	L	Outer_Full	4.472	4.830	PASS
N14	15	5	CP-64QAM	L	Outer_Full	4.463	4.820	PASS
N14	15	5	CP-256QAM	L	Outer_Full	4.475	4.850	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	4.471	4.800	PASS
N14	15	5	DFT-PI2BPSK	M	Outer_Full	4.479	4.800	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	4.464	4.790	PASS
N14	15	5	DFT-64QAM	M	Outer_Full	4.462	4.810	PASS
N14	15	5	DFT-256QAM	M	Outer_Full	4.469	4.760	PASS
N14	15	5	CP-QPSK	M	Outer_Full	4.466	4.810	PASS
N14	15	5	CP-16QAM	M	Outer_Full	4.472	4.850	PASS
N14	15	5	CP-64QAM	M	Outer_Full	4.469	4.800	PASS
N14	15	5	CP-256QAM	M	Outer_Full	4.476	4.820	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	4.466	4.780	PASS
N14	15	5	DFT-PI2BPSK	H	Outer_Full	4.481	4.800	PASS
N14	15	5	DFT-16QAM	H	Outer_Full	4.48	4.860	PASS
N14	15	5	DFT-64QAM	H	Outer_Full	4.459	4.820	PASS
N14	15	5	DFT-256QAM	H	Outer_Full	4.457	4.780	PASS
N14	15	5	CP-QPSK	H	Outer_Full	4.462	4.810	PASS
N14	15	5	CP-16QAM	H	Outer_Full	4.479	4.860	PASS
N14	15	5	CP-64QAM	H	Outer_Full	4.47	4.790	PASS
N14	15	5	CP-256QAM	H	Outer_Full	4.48	4.790	PASS
N14	15	10	DFT-QPSK	L	Outer_Full	8.914	9.400	PASS
N14	15	10	DFT-PI2BPSK	L	Outer_Full	8.907	9.420	PASS
N14	15	10	DFT-16QAM	L	Outer_Full	8.907	9.380	PASS

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N14	15	10	DFT-64QAM	L	Outer_Full	8.913	9.400	PASS
N14	15	10	DFT-256QAM	L	Outer_Full	8.908	9.320	PASS
N14	15	10	CP-QPSK	L	Outer_Full	9.284	9.680	PASS
N14	15	10	CP-16QAM	L	Outer_Full	9.252	9.740	PASS
N14	15	10	CP-64QAM	L	Outer_Full	9.292	9.760	PASS
N14	15	10	CP-256QAM	L	Outer_Full	9.238	9.760	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	8.911	9.420	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	8.936	9.440	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	8.909	9.400	PASS
N14	15	10	DFT-64QAM	M	Outer_Full	8.906	9.400	PASS
N14	15	10	DFT-256QAM	M	Outer_Full	8.921	9.380	PASS
N14	15	10	CP-QPSK	M	Outer_Full	9.253	9.700	PASS
N14	15	10	CP-16QAM	M	Outer_Full	9.257	9.760	PASS
N14	15	10	CP-64QAM	M	Outer_Full	9.28	9.800	PASS
N14	15	10	CP-256QAM	M	Outer_Full	9.272	9.760	PASS
N14	15	10	DFT-QPSK	H	Outer_Full	8.901	9.380	PASS
N14	15	10	DFT-PI2BPSK	H	Outer_Full	8.951	9.400	PASS
N14	15	10	DFT-16QAM	H	Outer_Full	8.917	9.400	PASS
N14	15	10	DFT-64QAM	H	Outer_Full	8.91	9.360	PASS
N14	15	10	DFT-256QAM	H	Outer_Full	8.895	9.380	PASS
N14	15	10	CP-QPSK	H	Outer_Full	9.275	9.780	PASS
N14	15	10	CP-16QAM	H	Outer_Full	9.263	9.780	PASS
N14	15	10	CP-64QAM	H	Outer_Full	9.279	9.780	PASS
N14	15	10	CP-256QAM	H	Outer_Full	9.275	9.740	PASS

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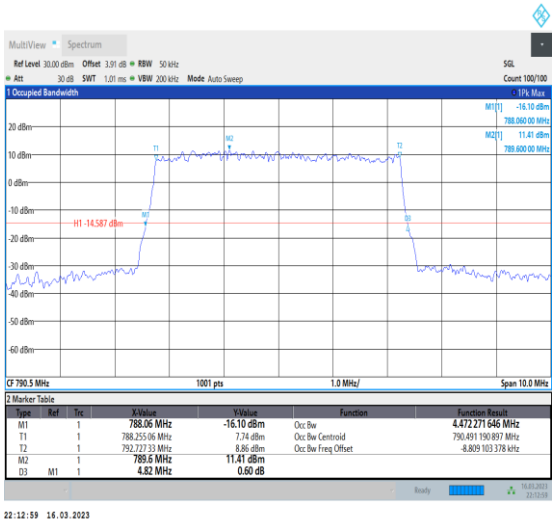
Test Graphs



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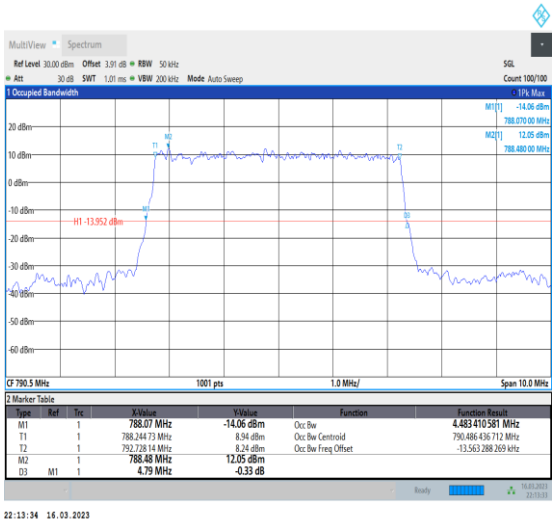

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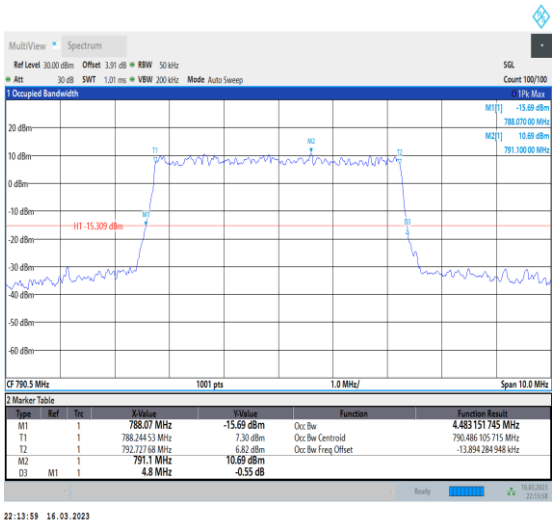

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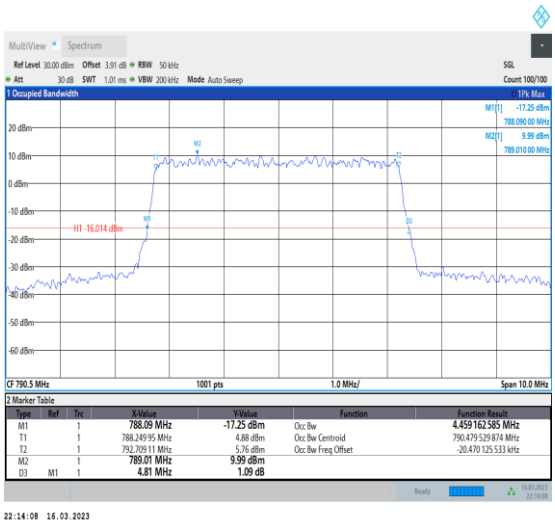

1-N14-PC3-15-5-L-4-DFT-64QAM-Outer_Full-25@0-Ant7-4.459-4.810-≤5-PASS

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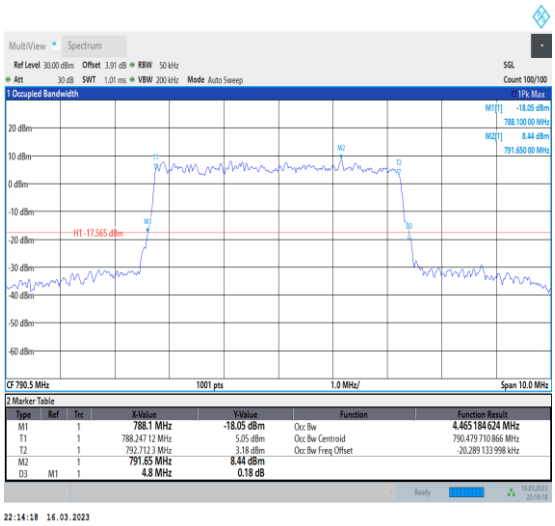

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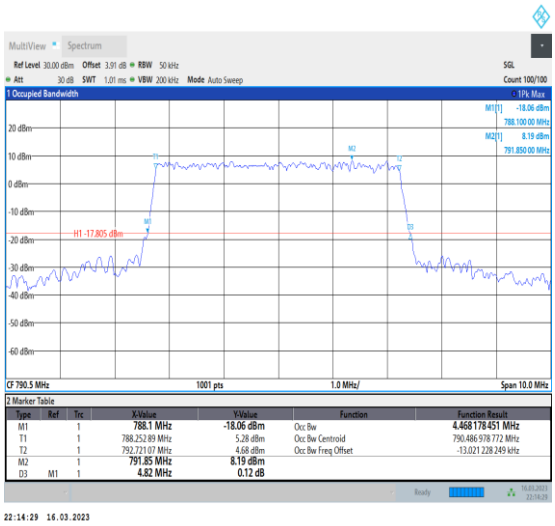

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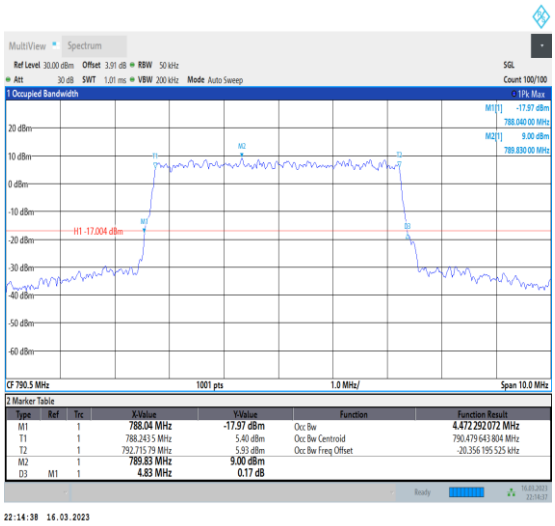

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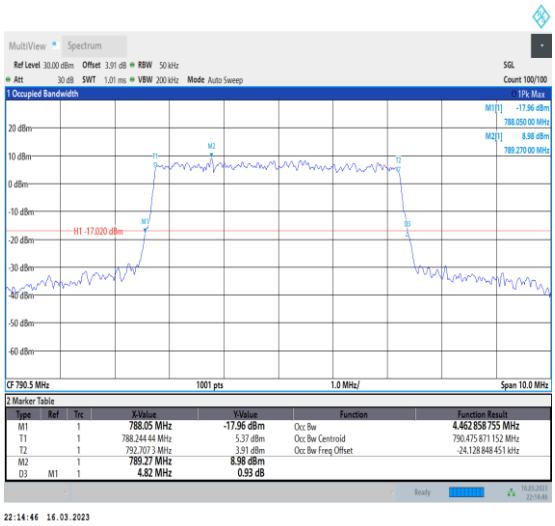

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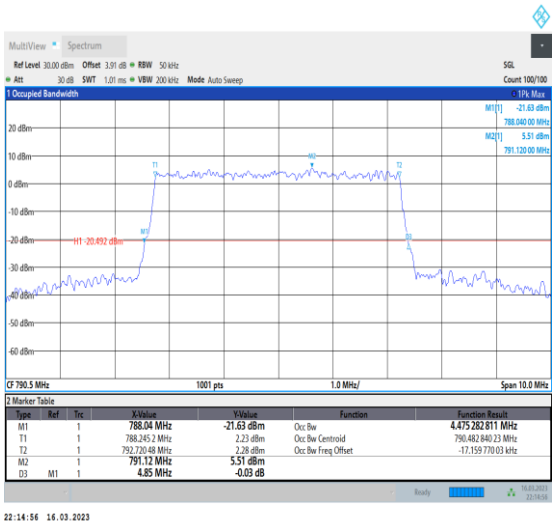

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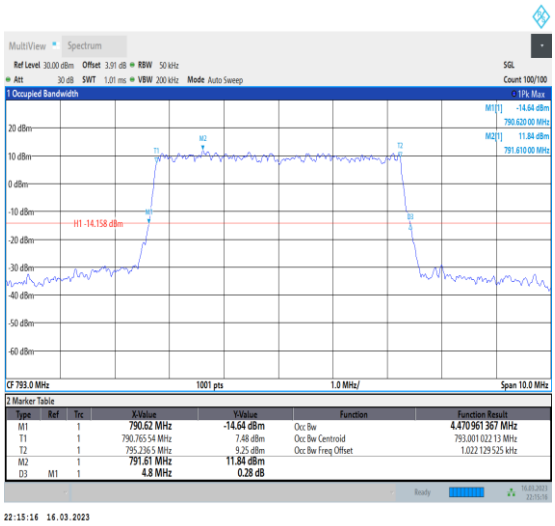

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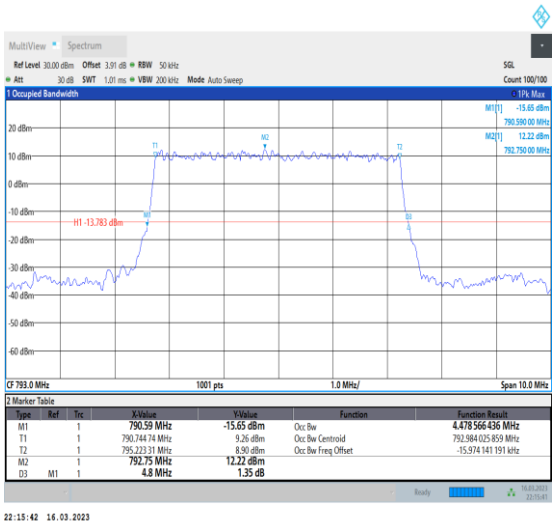

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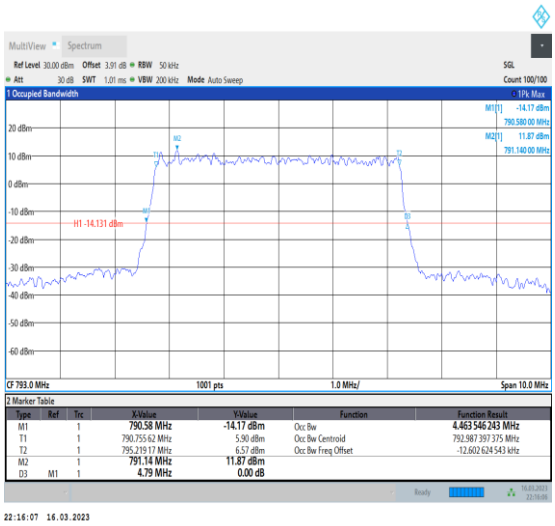

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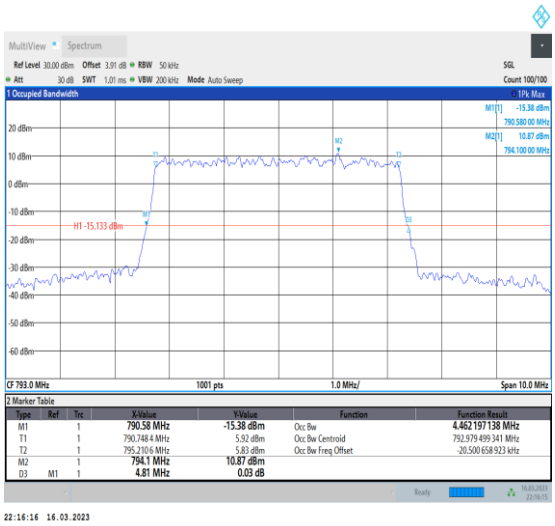

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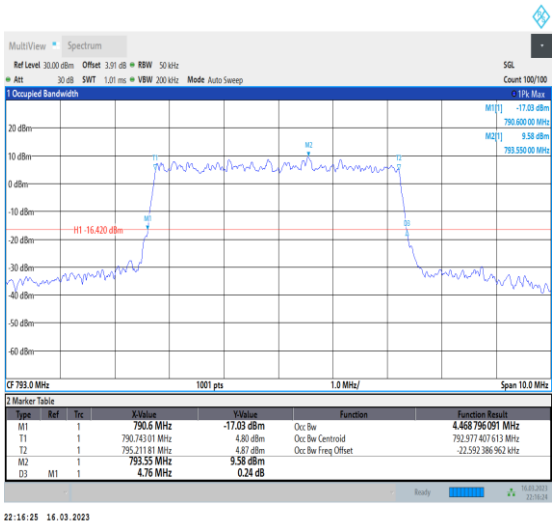

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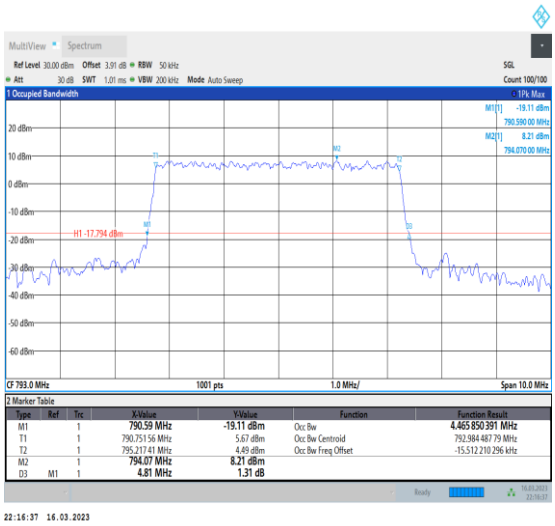

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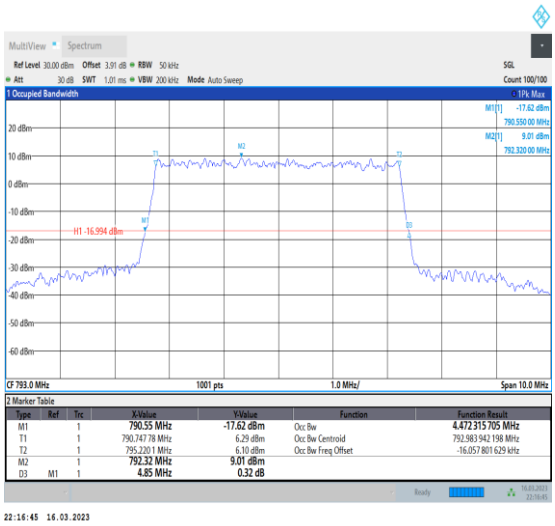

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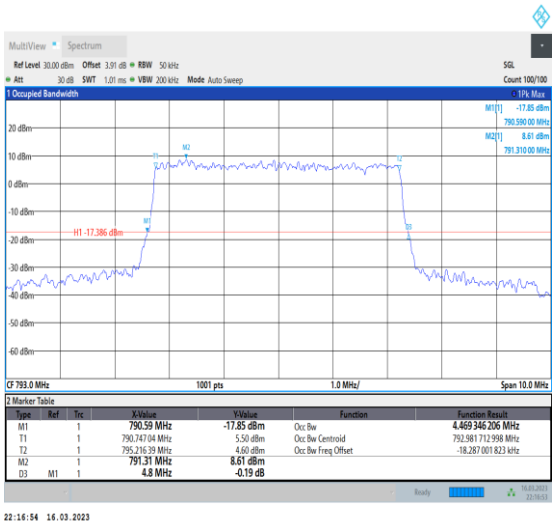

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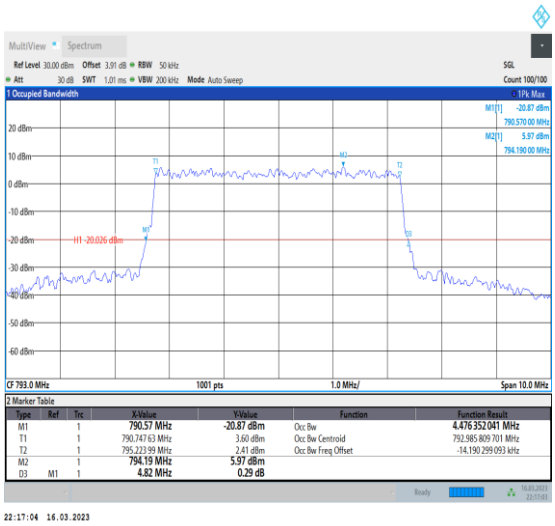

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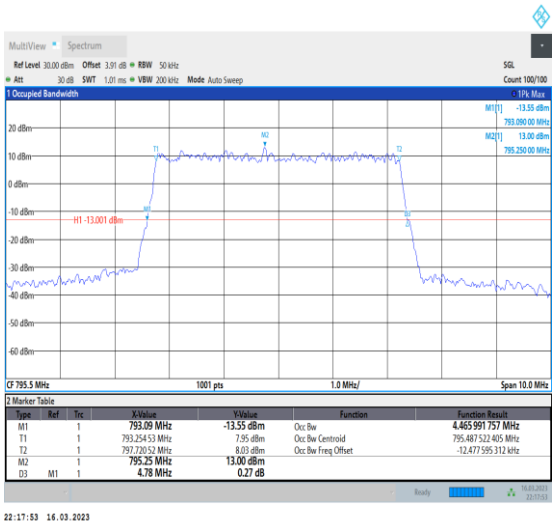

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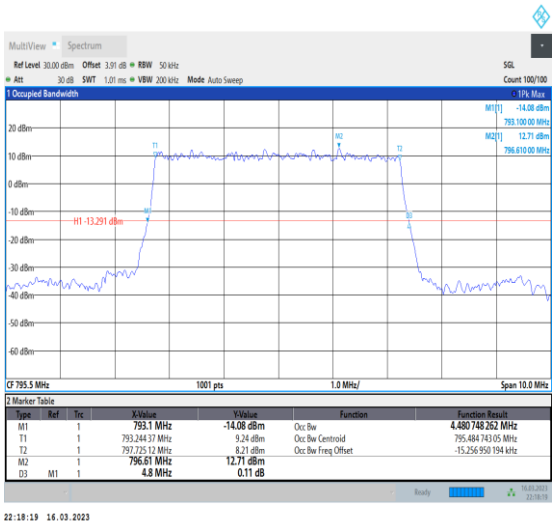

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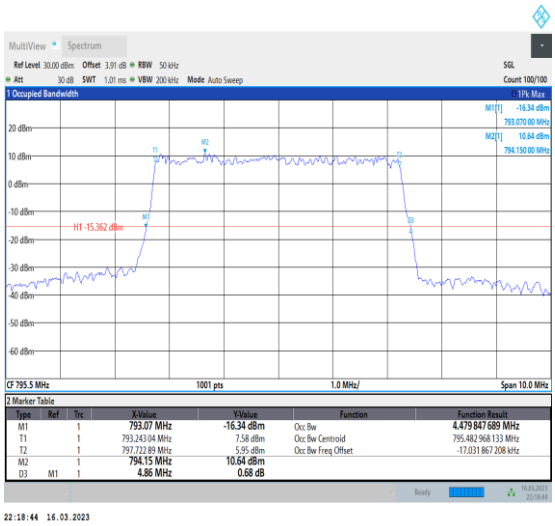

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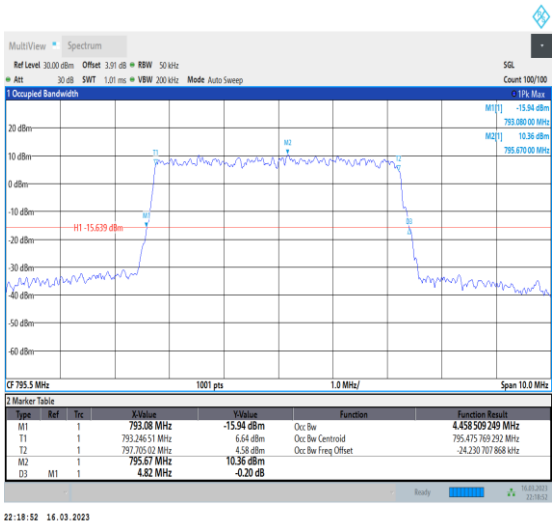

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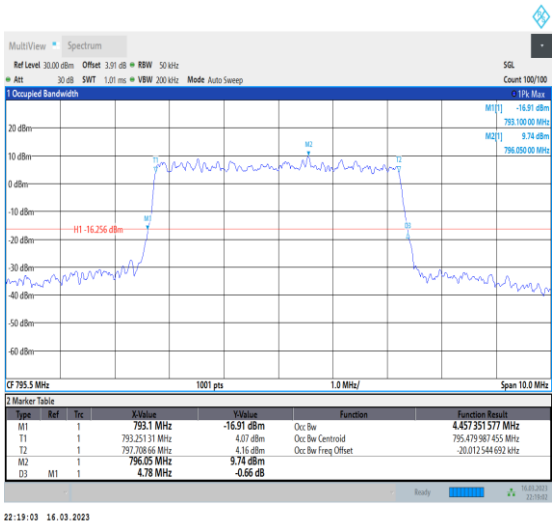

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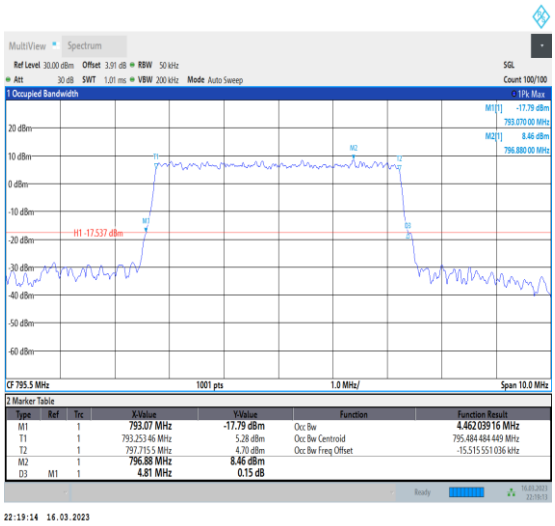

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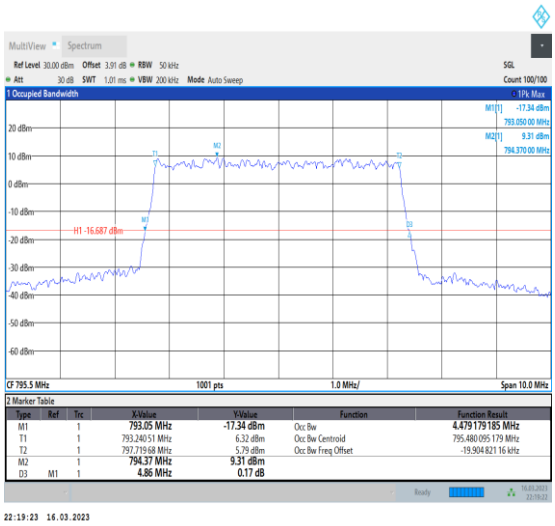

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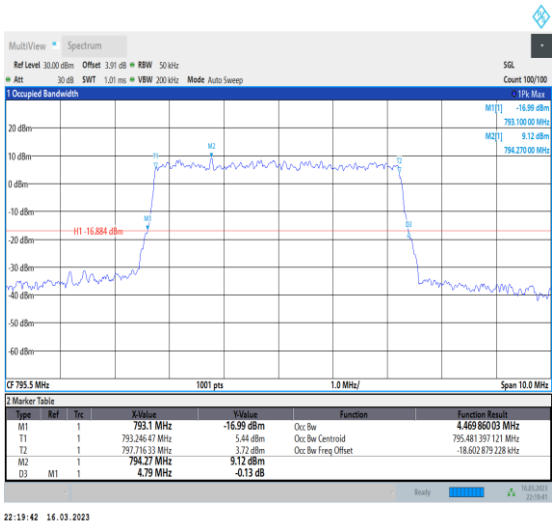

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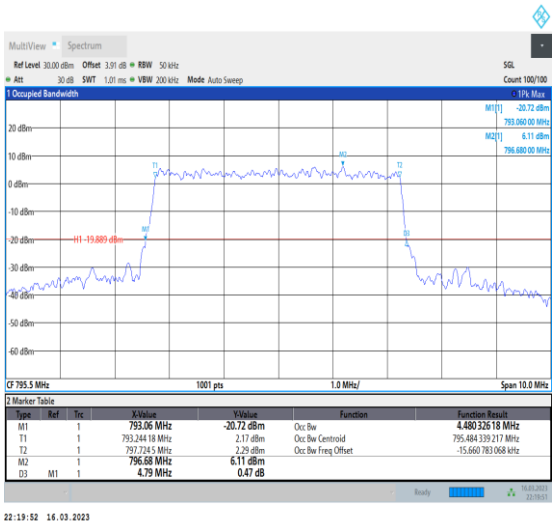

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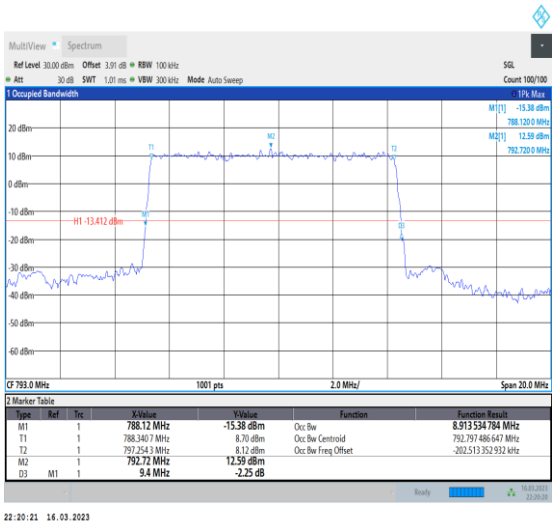

1-N14-PC3-15-10-L-1-DFT-QPSK-Outer_Full-50@0-Ant7-8.914-9.400-≤10-PASS

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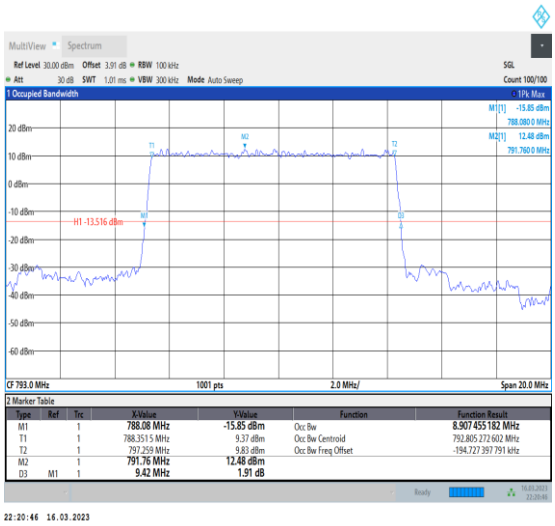

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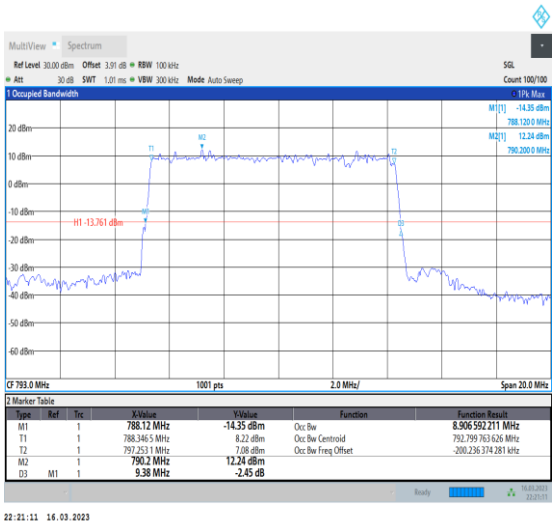

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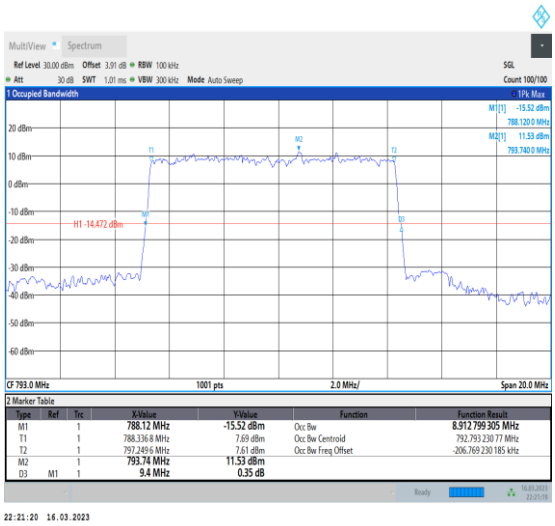

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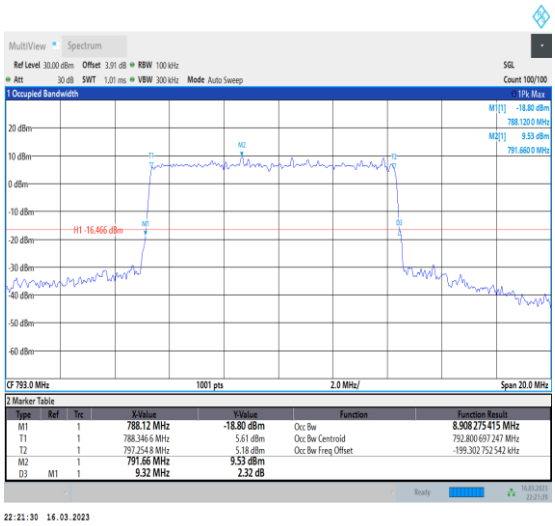

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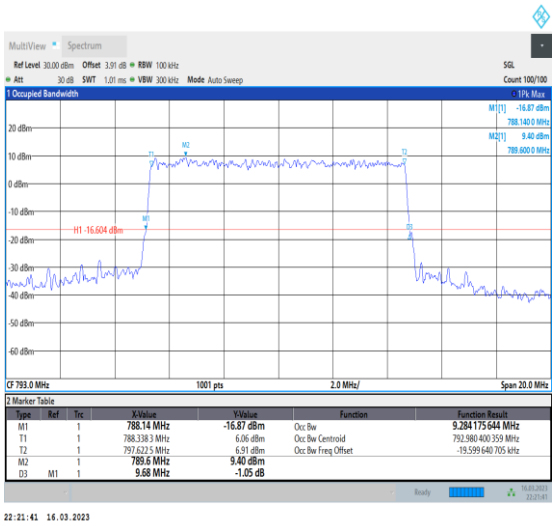

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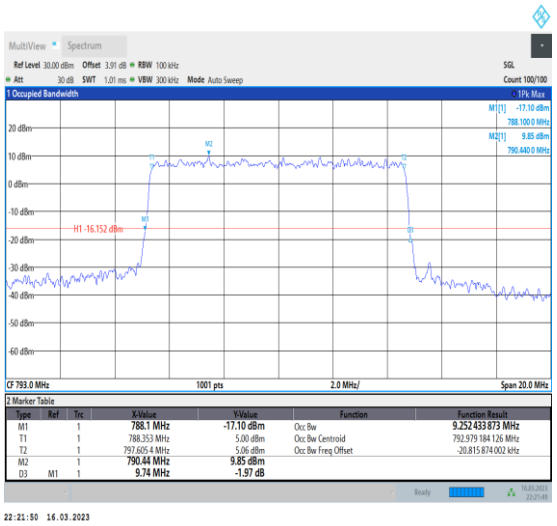

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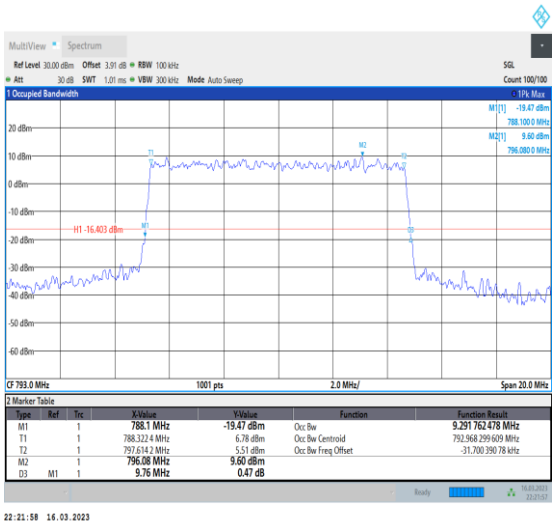

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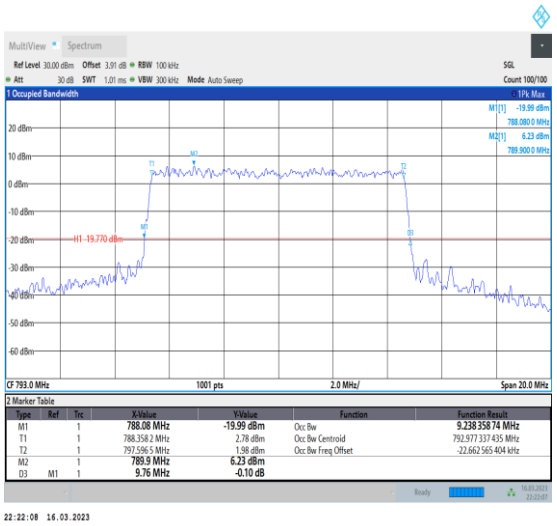

1-N14-PC3-15-10-L-9-CP-256QAM-Outer_Full-52@0-Ant7-9.238-9.760-≤10-PASS

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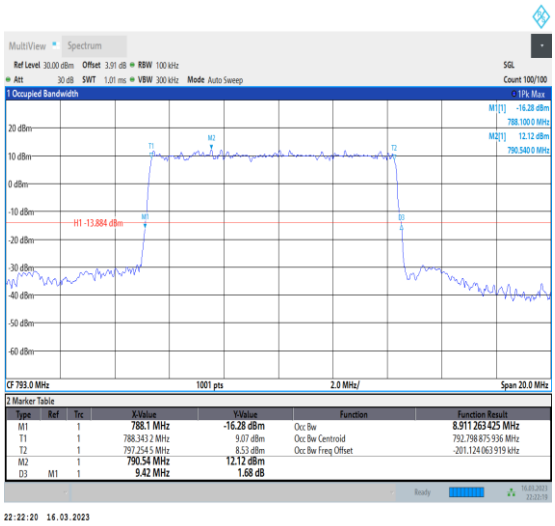

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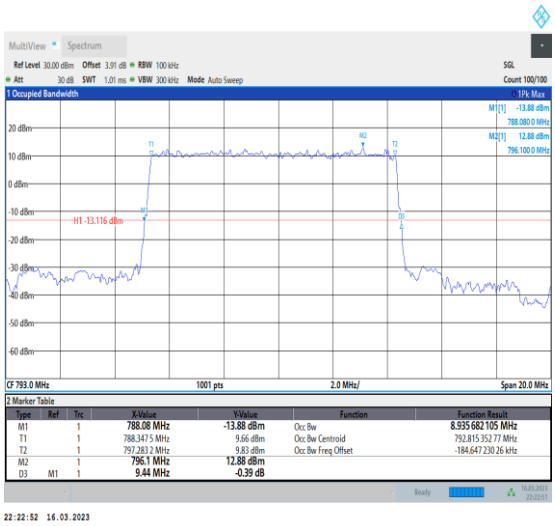

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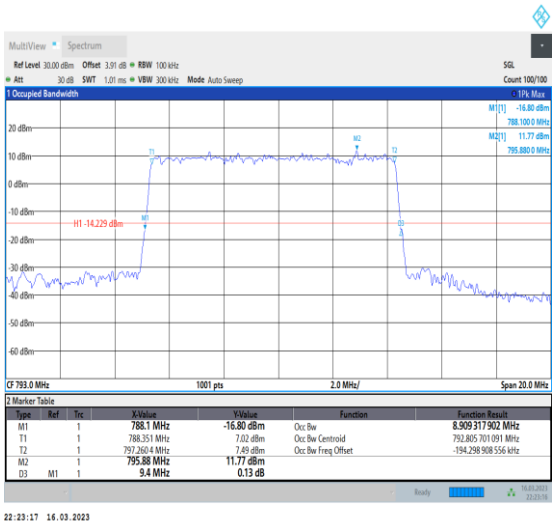

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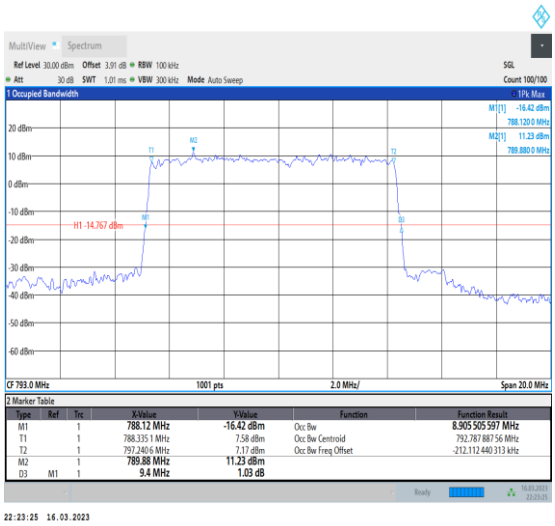

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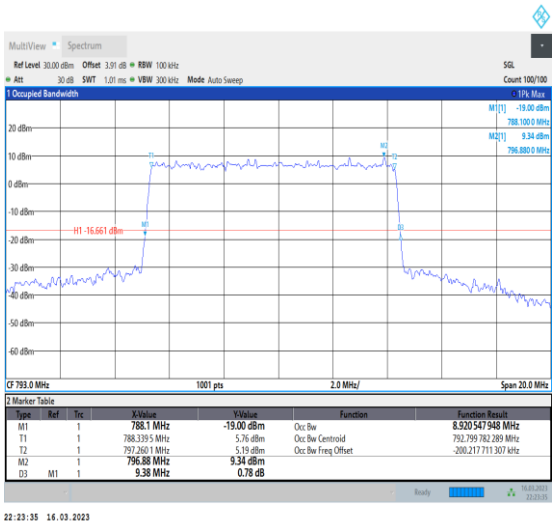

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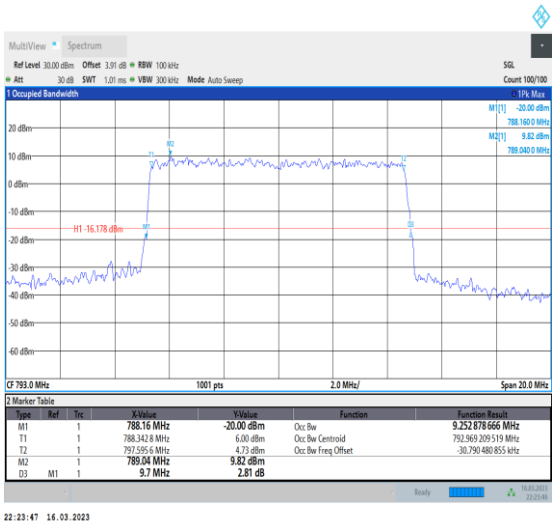

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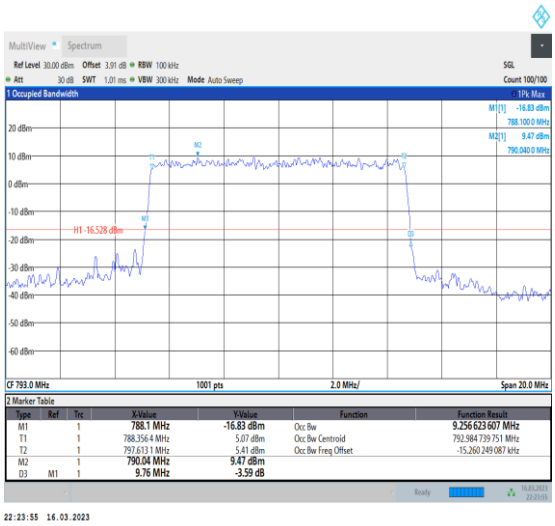

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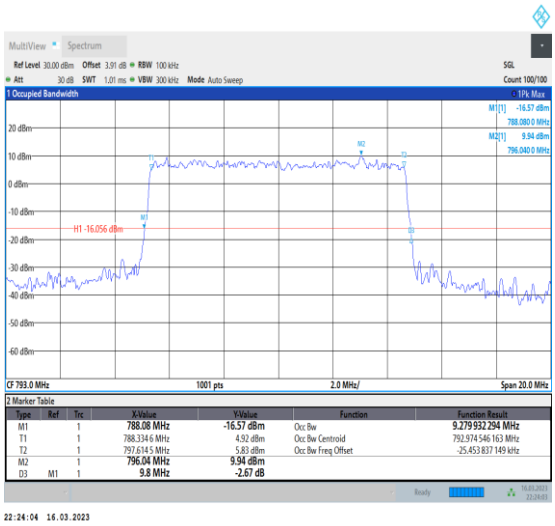

1-N14-PC3-15-10-M-8-CP-64QAM-Outer_Full-52@0-Ant7-9.28-9.800-≤10-PASS

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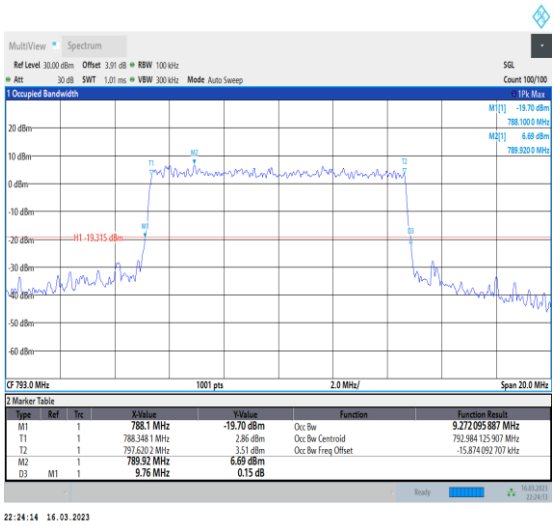

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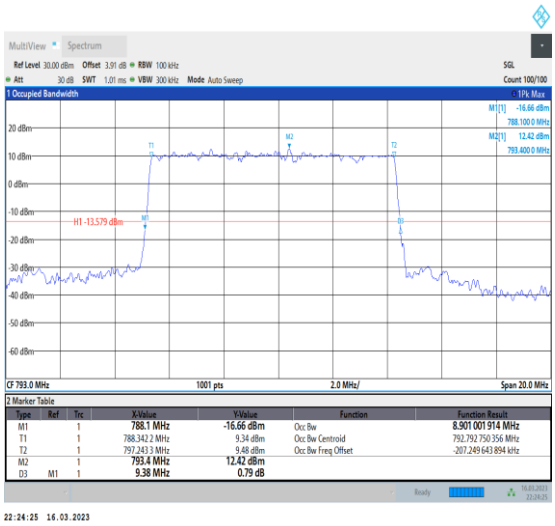

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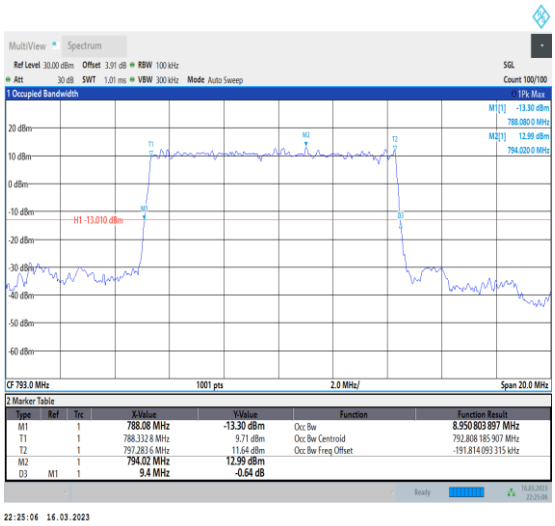

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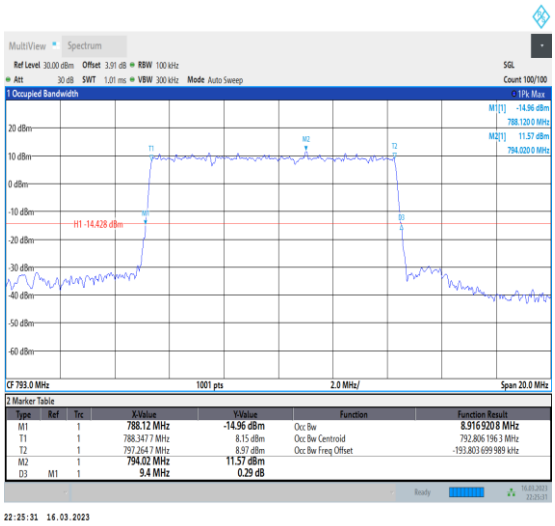

1-N14-PC3-15-10-H-3-DFT-16QAM-Outer_Full-50@0-Ant7-8.917-9.400-≤10-PASS

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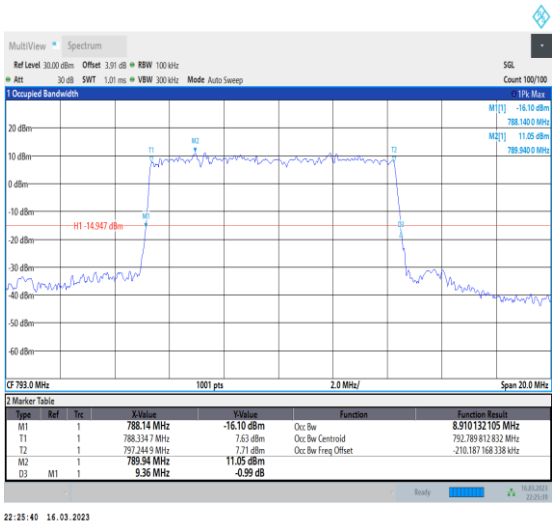

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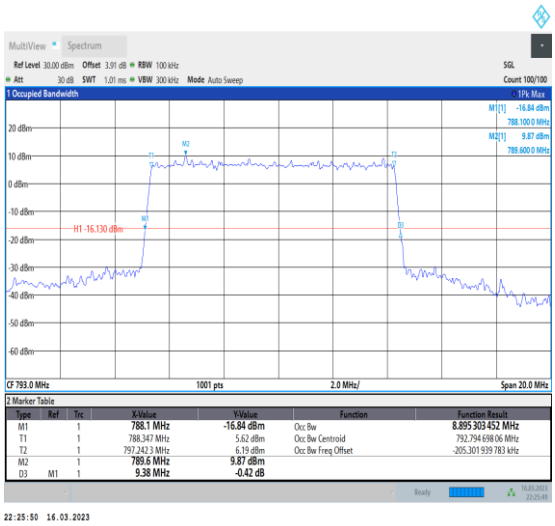

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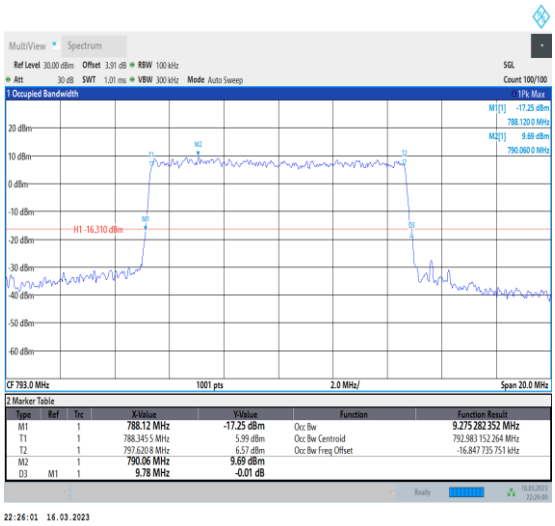

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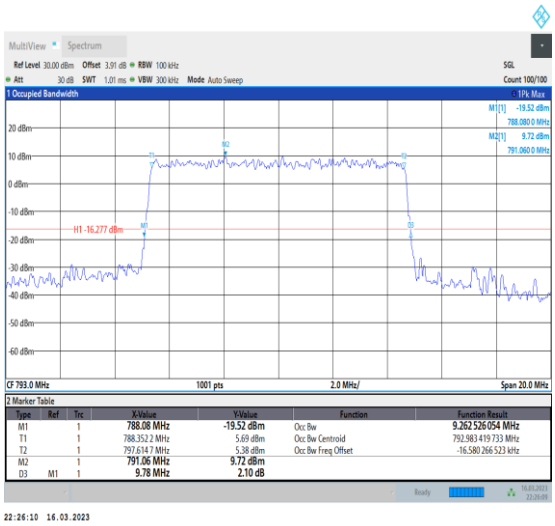

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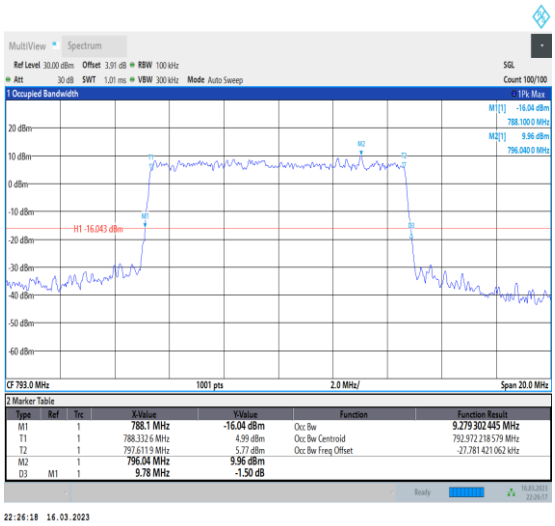

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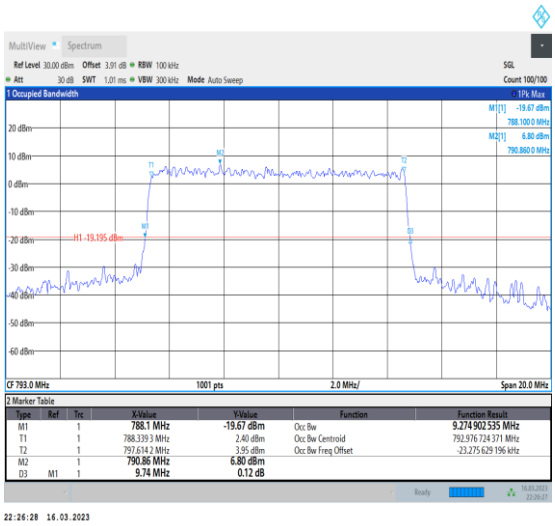

1-N14-PC3-15-10-H-9-CP-256QAM-Outer_Full-52@0-Ant7-9.275-9.740-≤10-PASS

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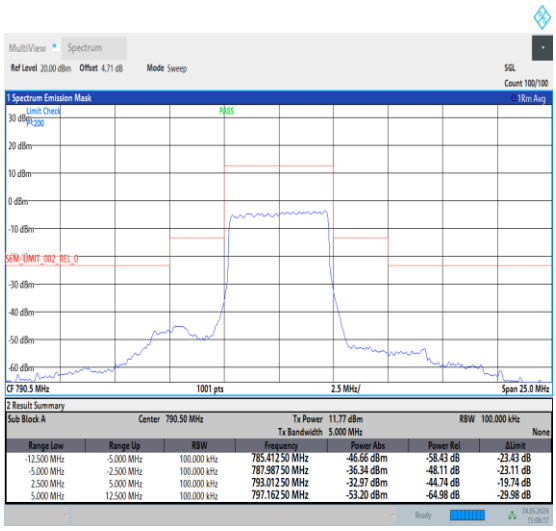
Emission mask for SA

Test Graphs



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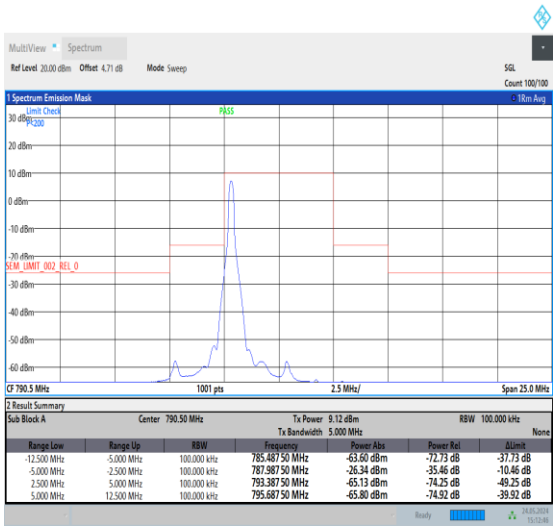

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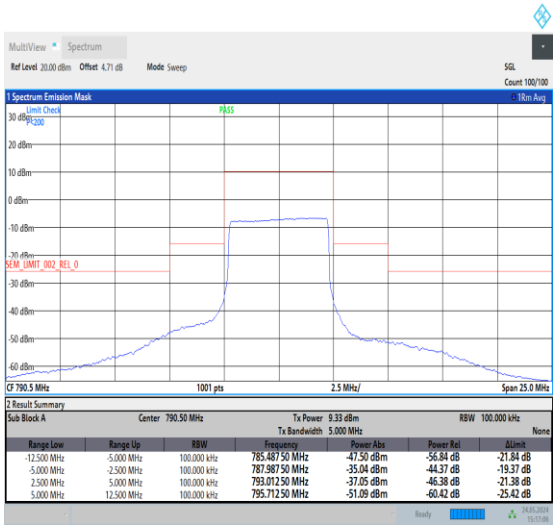

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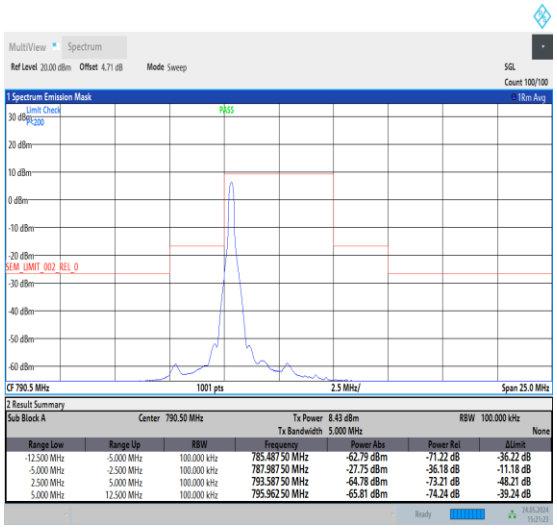

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