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

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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
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

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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
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

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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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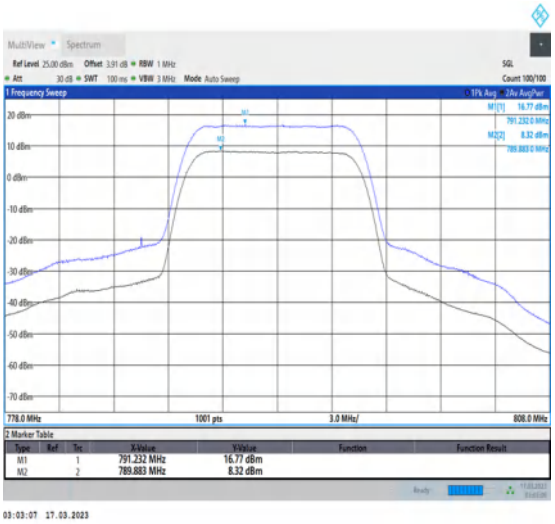
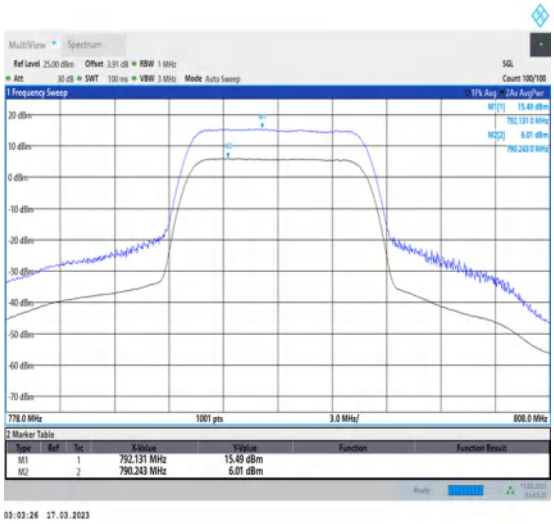
Test Graphs

	
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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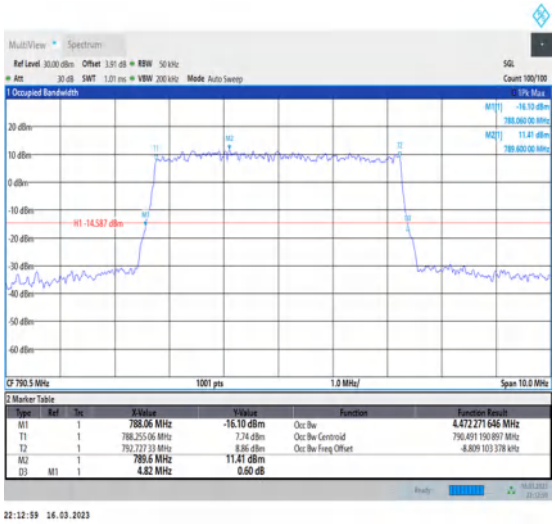
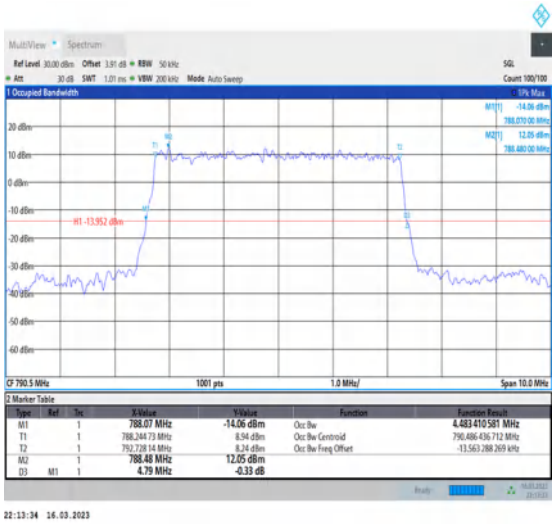
Test Graphs



1-N14-PC3-15-5-L-1-DFT-QPSK-Outer_Full-25@0-Ant7-4.472-4.820-≤5-PASS



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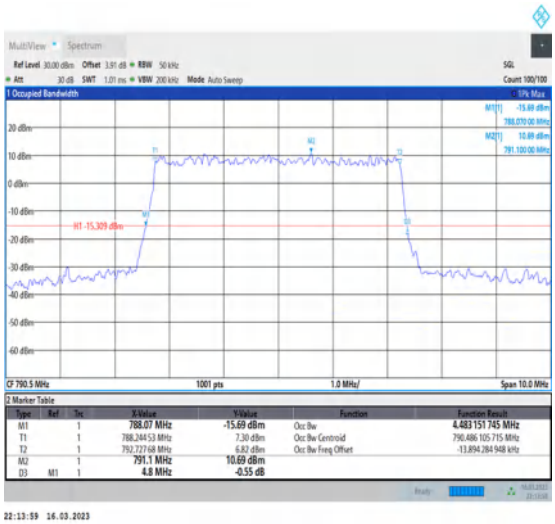

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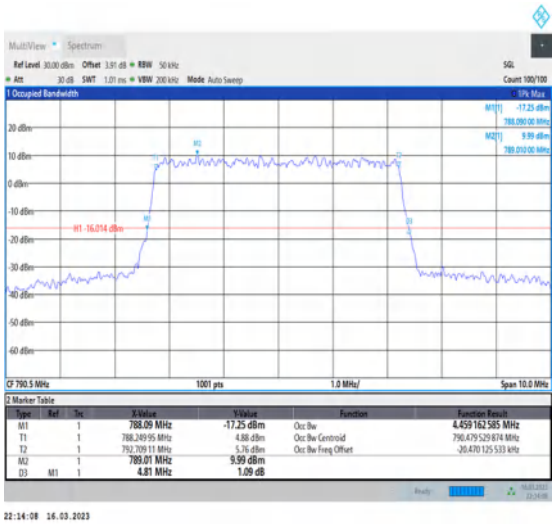

1-N14-PC3-15-5-L-4-DFT-64QAM-Outer_Full-25@0-Ant7-4.459-4.810-≤5-PASS

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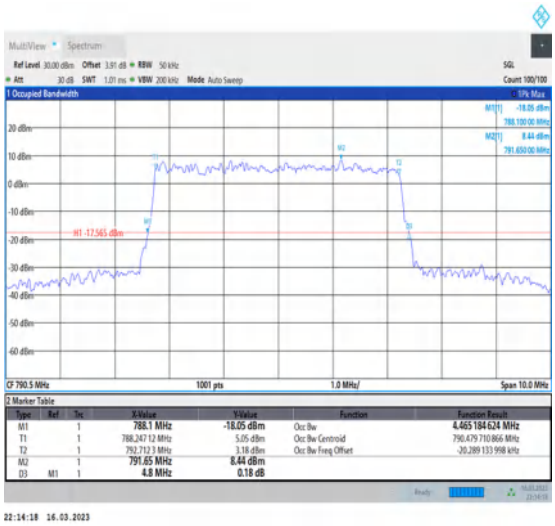

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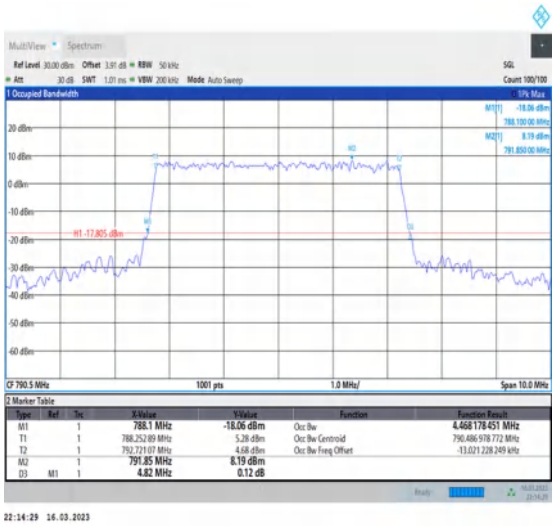

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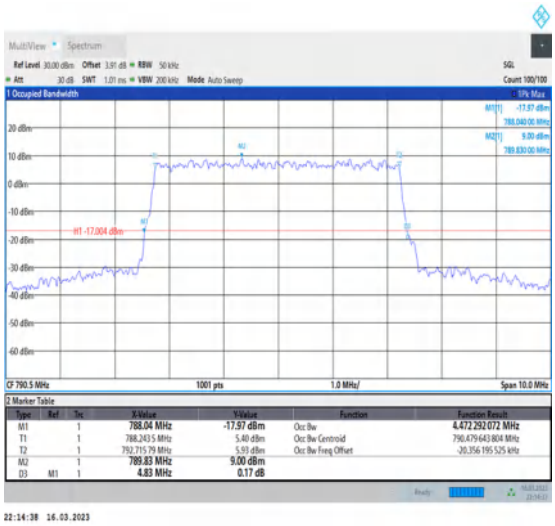
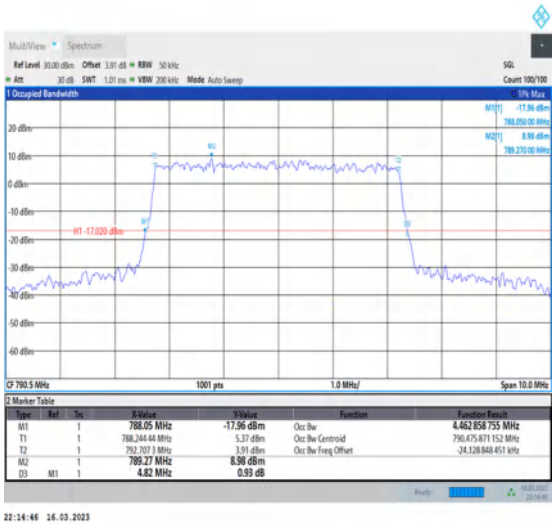


1-N14-PC3-15-5-L-7-CP-16QAM-Outer_Full-25@0-Ant7-4.472-4.830-≤5-PASS



1-N14-PC3-15-5-L-8-CP-64QAM-Outer_Full-25@0-Ant7-4.463-4.820-≤5-PASS

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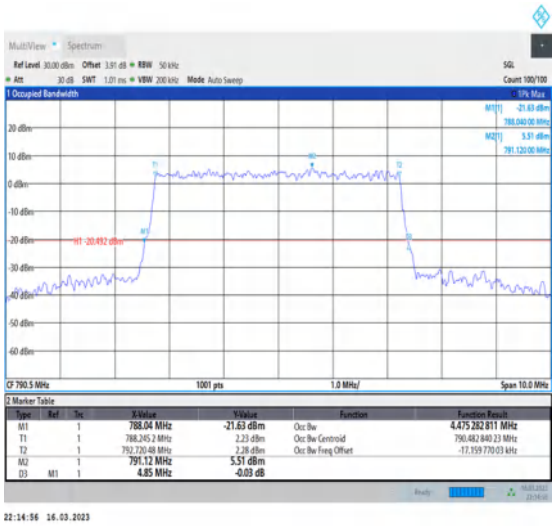

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1-N14-PC3-15-5-M-1-DFT-QPSK-Outer_Full-25@0-Ant7-4.471-4.800-≤5-PASS

1-N14-PC3-15-5-M-2-DFT-PI2BPSK-Outer_Full-25@0-Ant7-4.479-4.800-≤5-PASS

1-N14-PC3-15-5-M-3-DFT-16QAM-Outer_Full-25@0-Ant7-4.464-4.790-≤5-PASS

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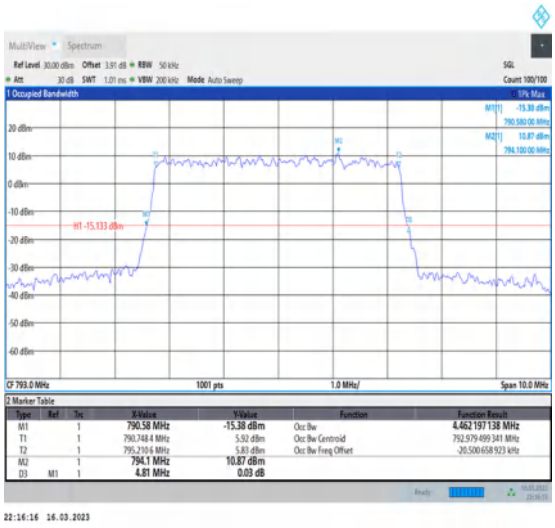

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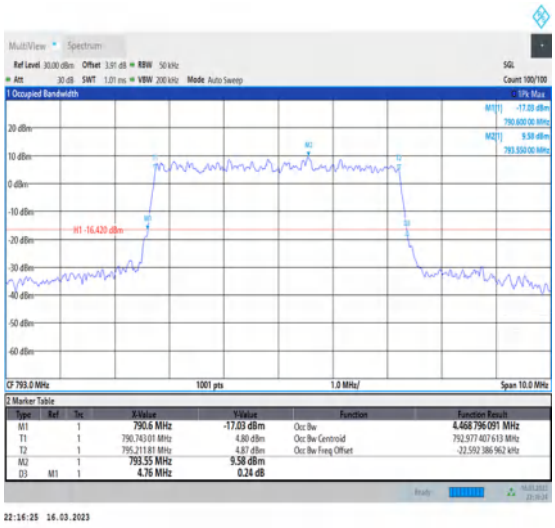

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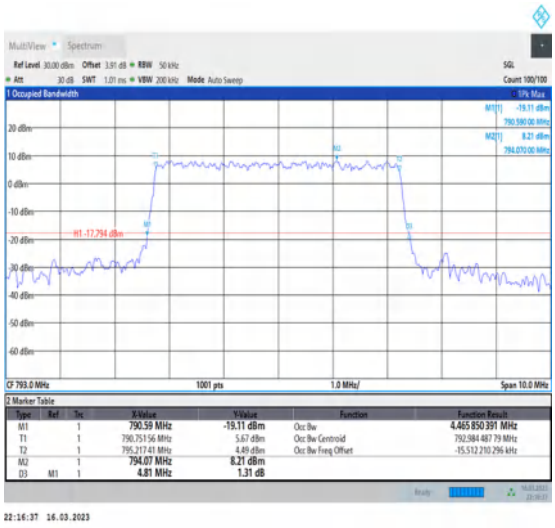

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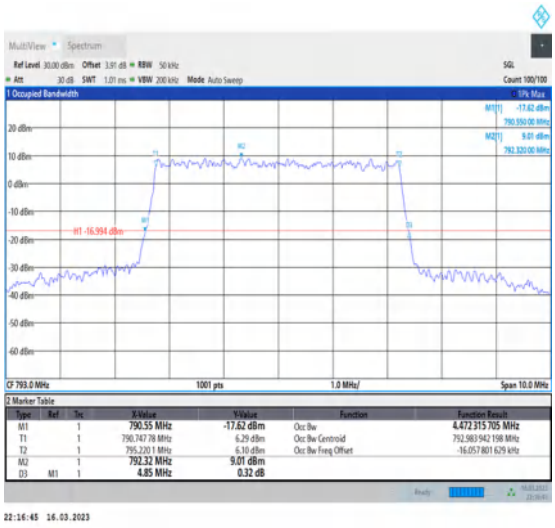

1-N14-PC3-15-5-M-7-CP-16QAM-Outer_Full-25@0-Ant7-4.472-4.850-≤5-PASS

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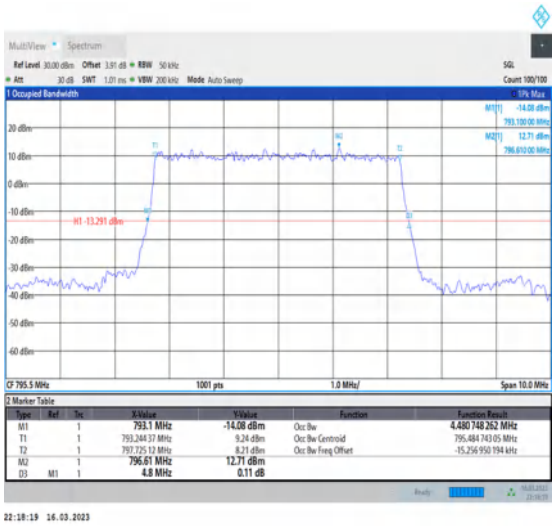
1-N14-PC3-15-5-M-8-CP-64QAM-Outer_Full-25@0-Ant7-4.469-4.800-≤5-PASS

1-N14-PC3-15-5-M-9-CP-256QAM-Outer_Full-25@0-Ant7-4.476-4.820-≤5-PASS

1-N14-PC3-15-5-H-1-DFT-QPSK-Outer_Full-25@0-Ant7-4.466-4.780-≤5-PASS



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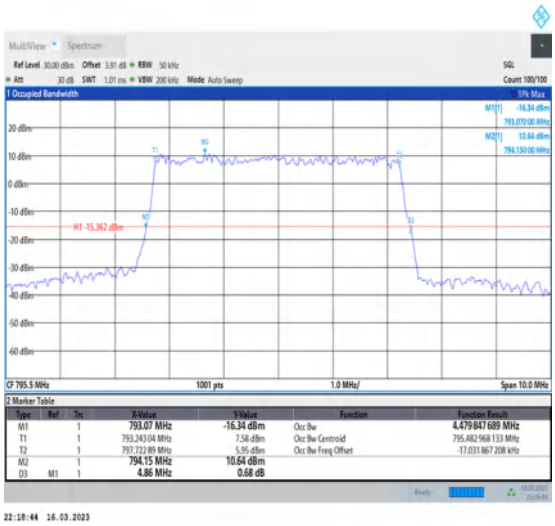

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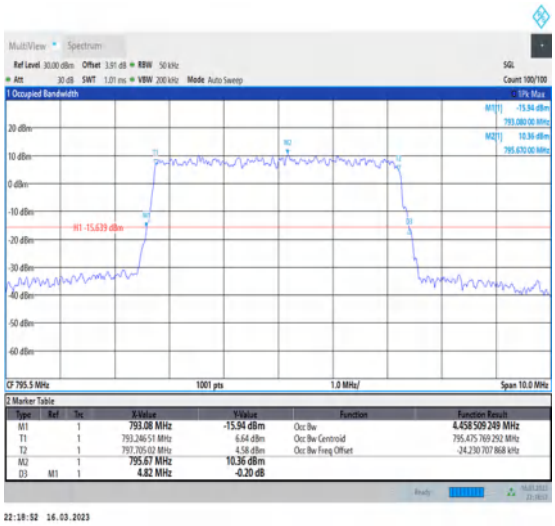

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1-N14-PC3-15-5-H-5-DFT-256QAM-Outer_Full-25@0-Ant7-4.457-4.780-≤5-PASS

1-N14-PC3-15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant7-4.462-4.810-≤5-PASS

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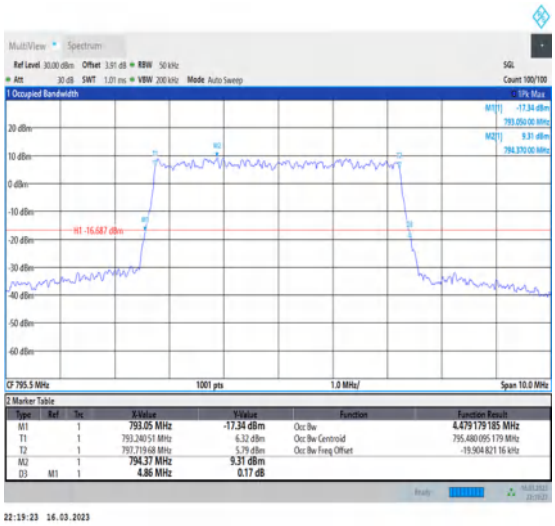

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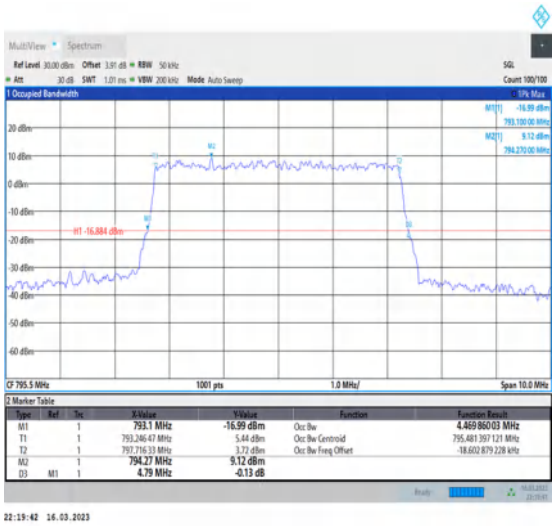

1-N14-PC3-15-5-H-8-CP-64QAM-Outer_Full-25@0-Ant7-4.47-4.790-≤5-PASS

1-N14-PC3-15-5-H-9-CP-256QAM-Outer_Full-25@0-Ant7-4.48-4.790-≤5-PASS

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

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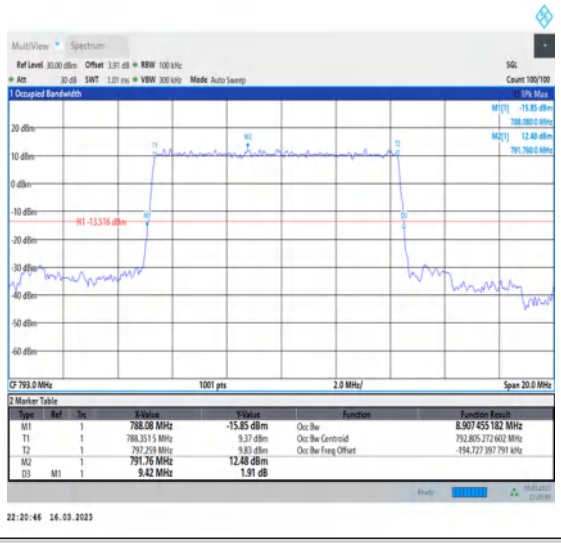

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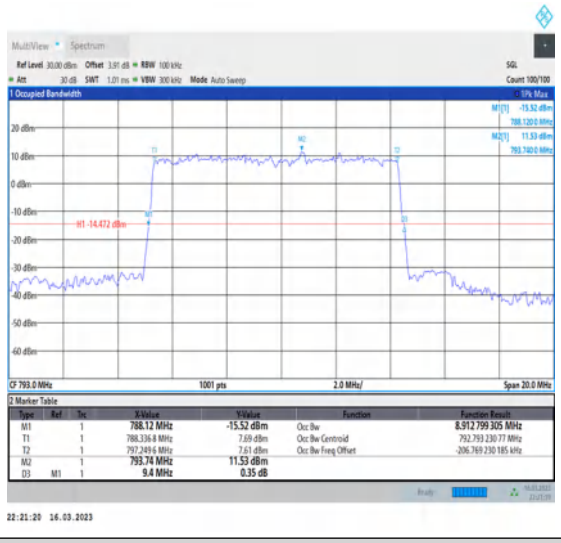

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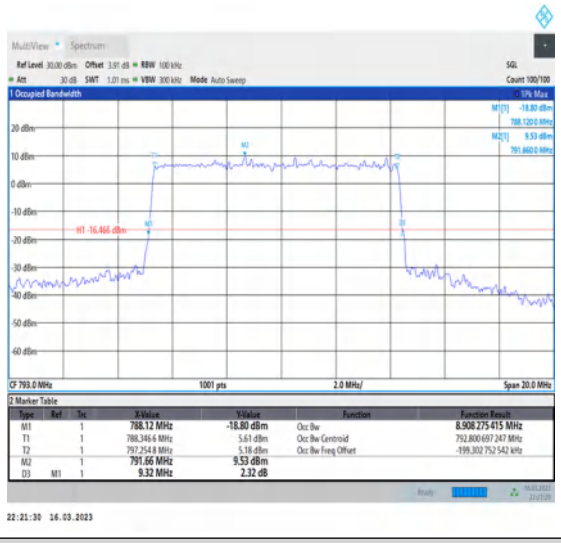

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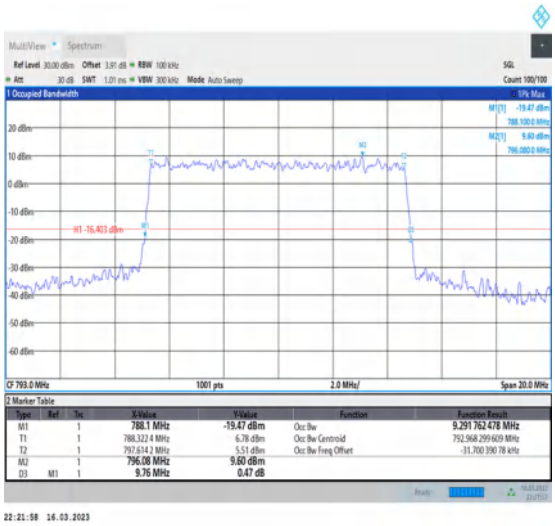
1-N14-PC3-15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant7-9.284-9.680-≤10-PASS

1-N14-PC3-15-10-L-7-CP-16QAM-Outer_Full-52@0-Ant7-9.252-9.740-≤10-PASS



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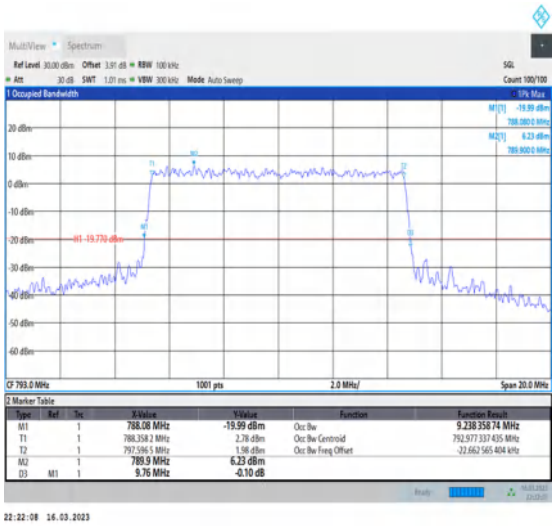

1-N14-PC3-15-10-L-9-CP-256QAM-Outer_Full-52@0-Ant7-9.238-9.760-≤10-PASS

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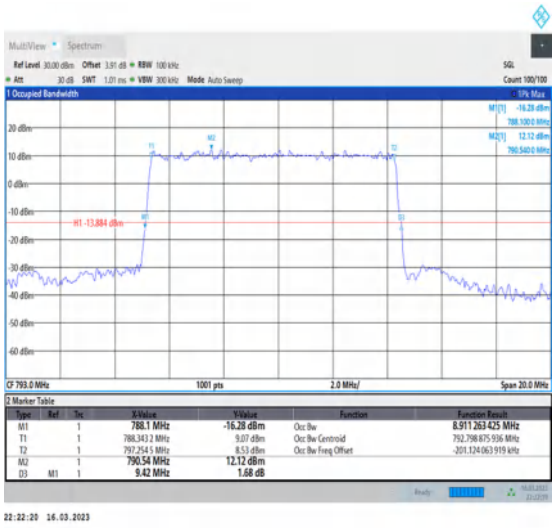

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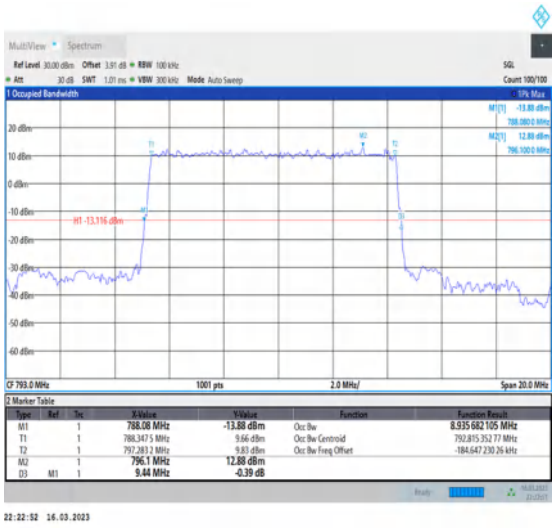

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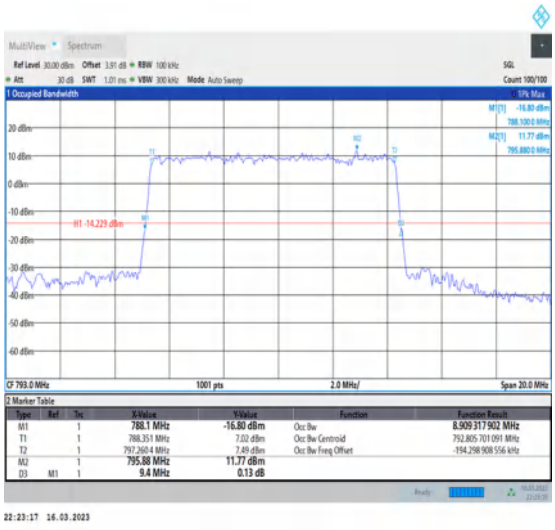

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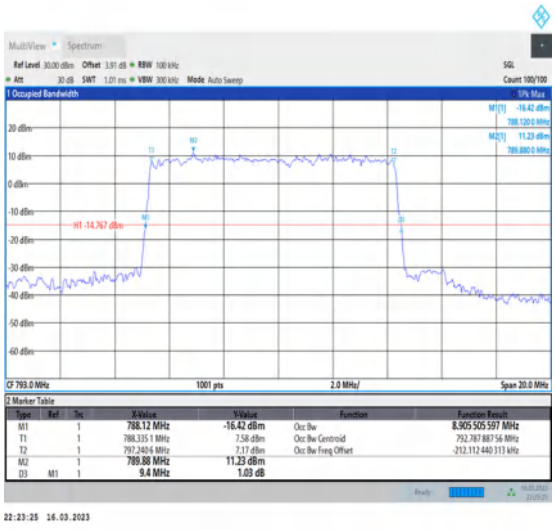

1-N14-PC3-15-10-M-4-DFT-64QAM-Outer_Full-50@0-Ant7-8.906-9.400-≤10-PASS

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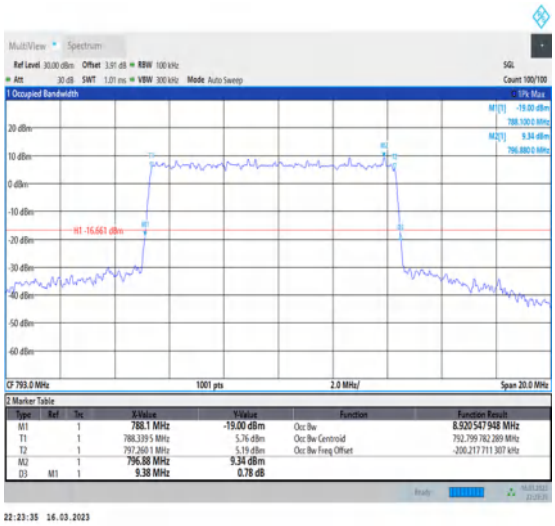

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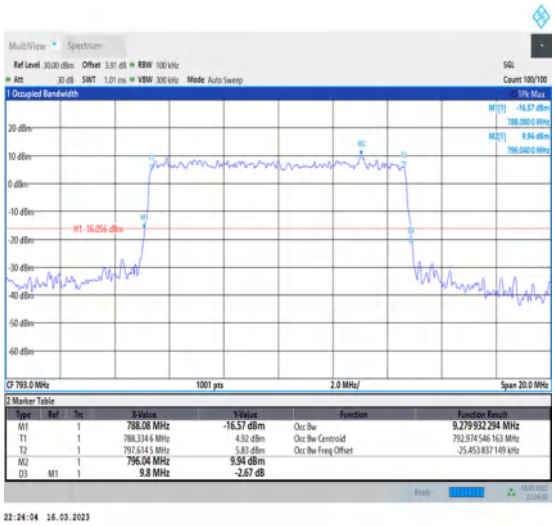

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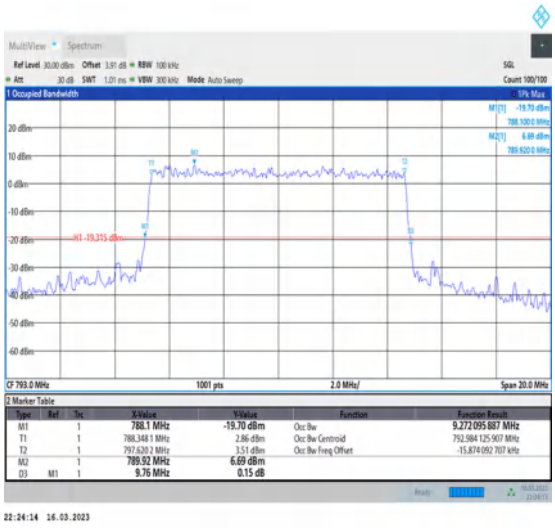

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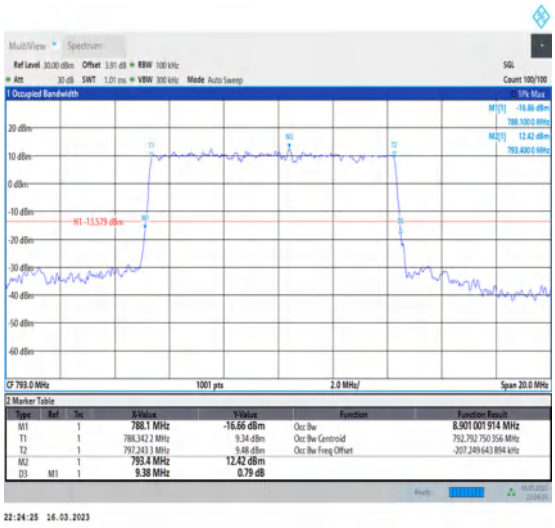

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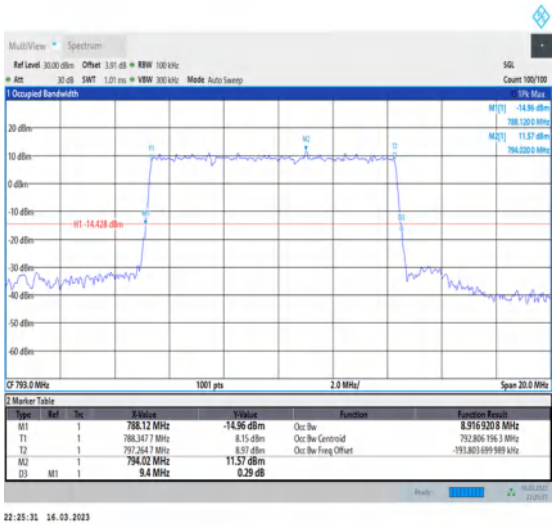

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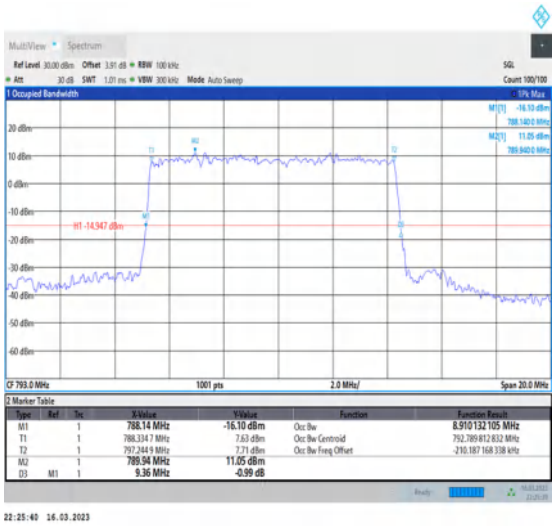

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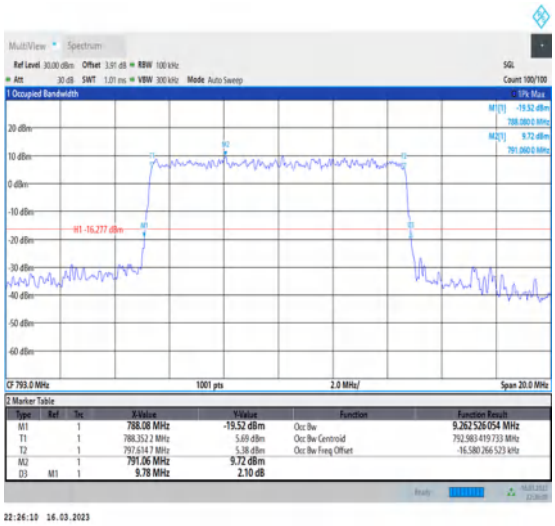
1-N14-PC3-15-10-H-5-DFT-256QAM-Outer_Full-50@0-Ant7-8.895-9.380-≤10-PASS

1-N14-PC3-15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant7-9.275-9.780-≤10-PASS



1-N14-PC3-15-10-H-7-CP-16QAM-Outer_Full-52@0-Ant7-9.263-9.780-≤10-PASS

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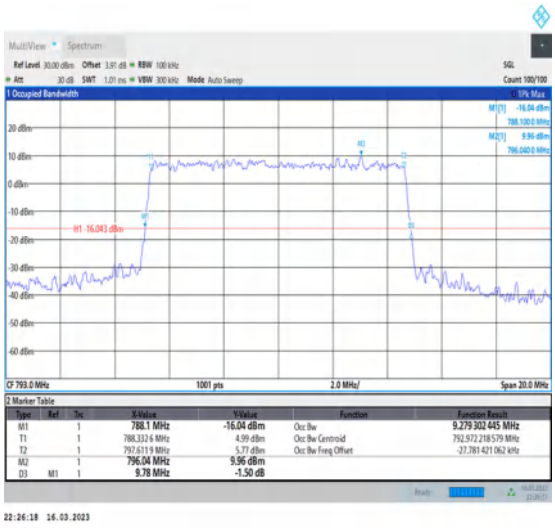	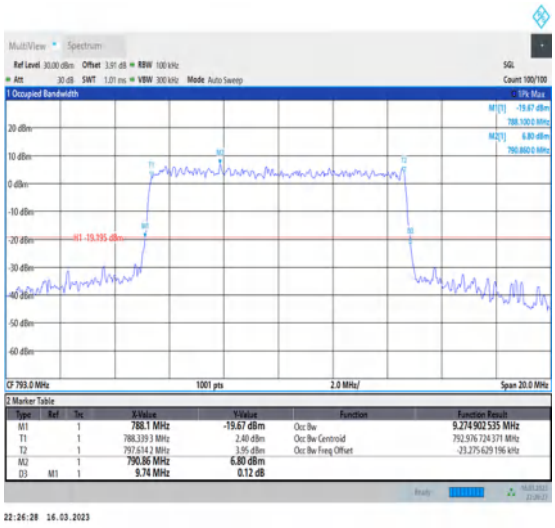
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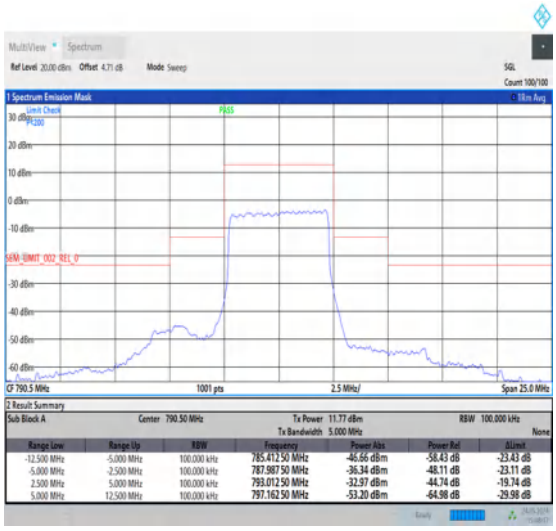
Emission mask for SA

Test Graphs



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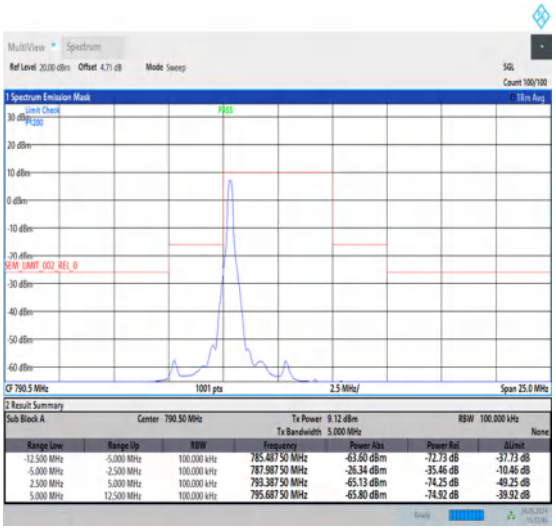

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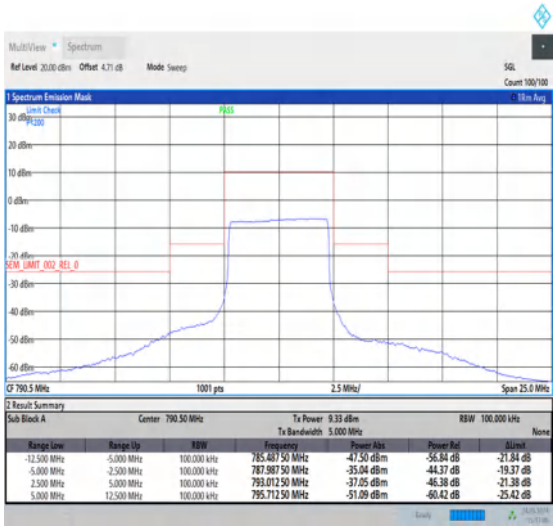

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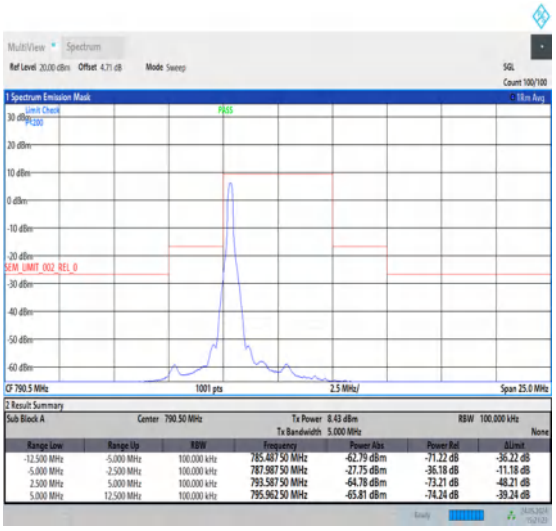

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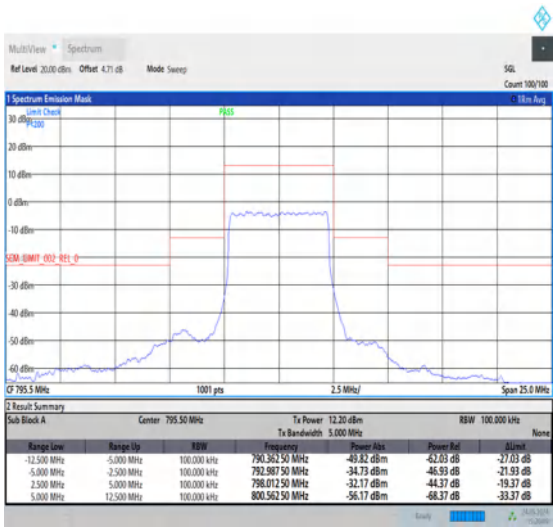

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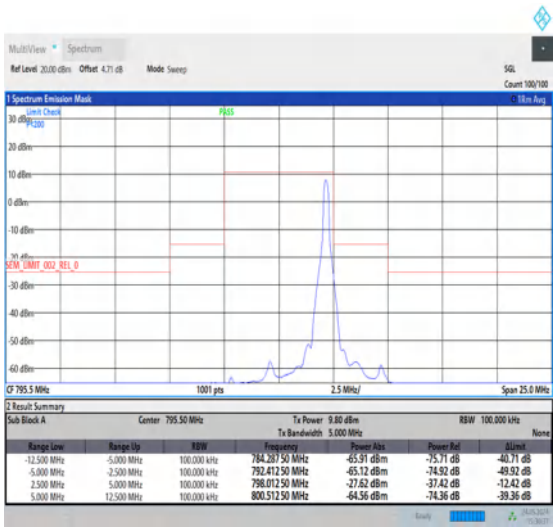

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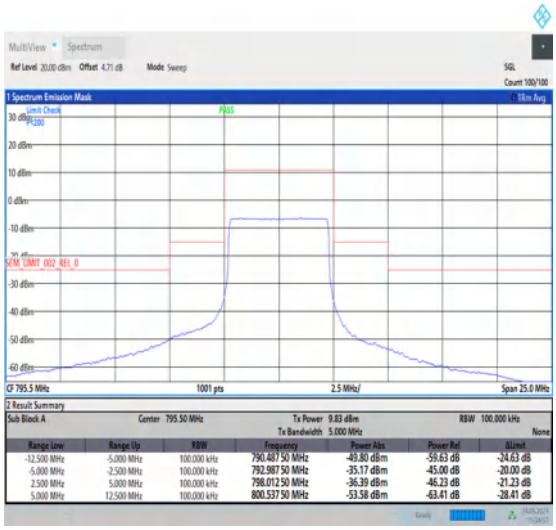

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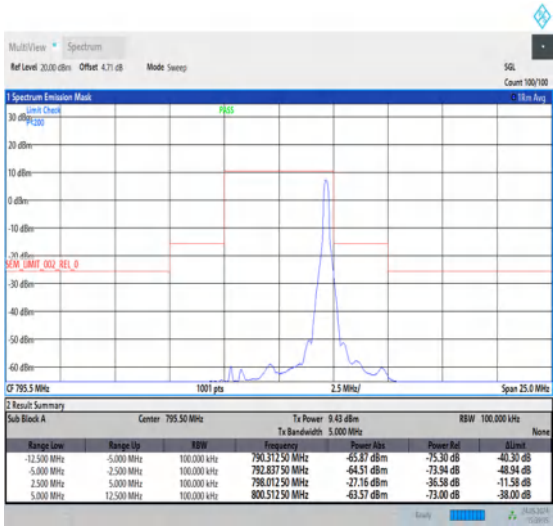

NTNV_N14_15_5_H_TID6_-12.50_-5.00_100.00_#1

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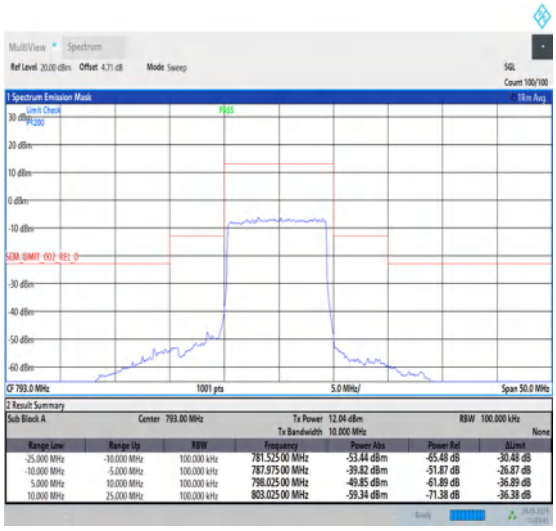

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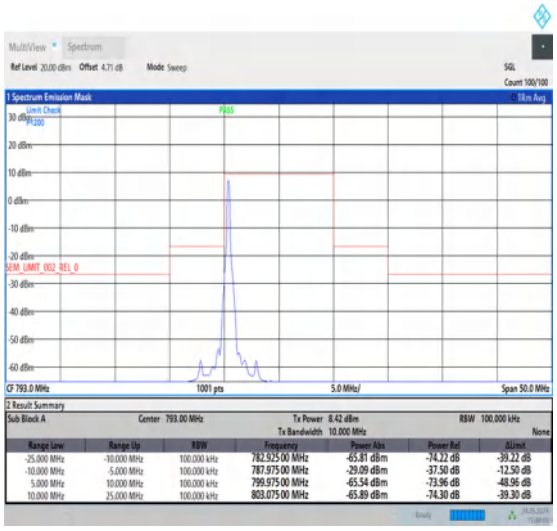

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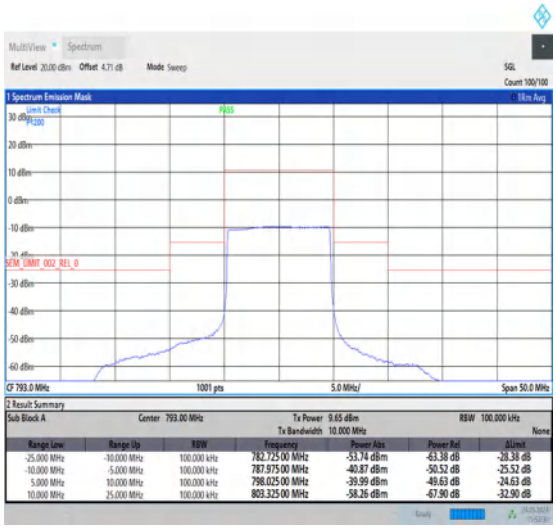

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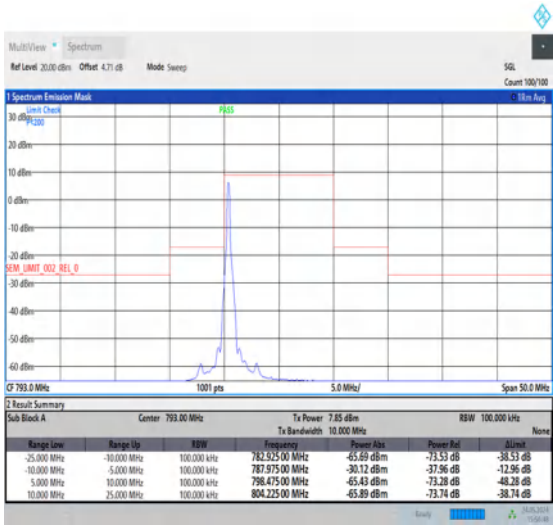

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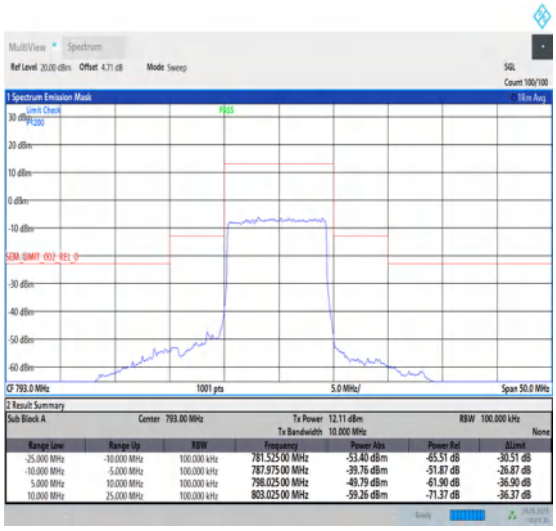

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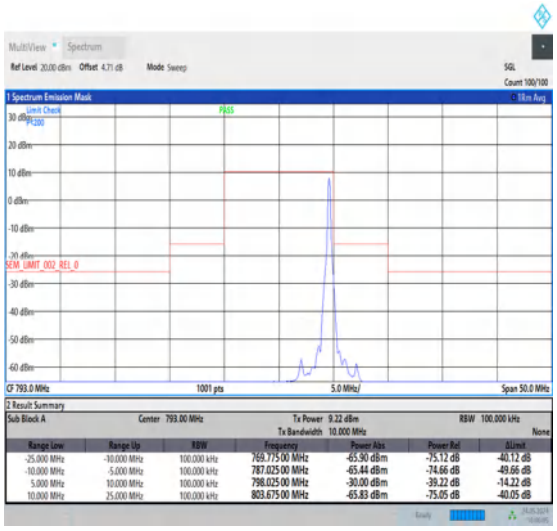

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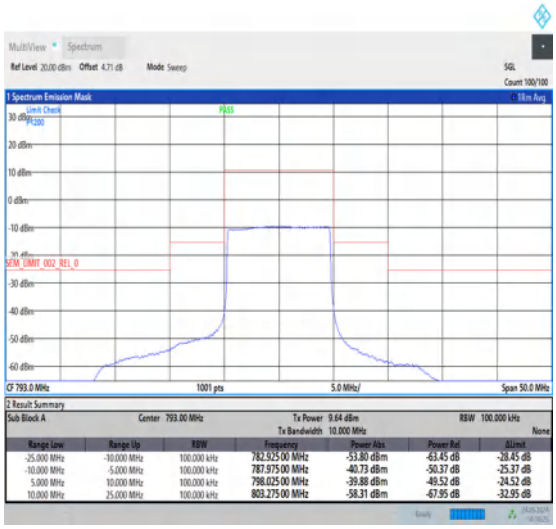

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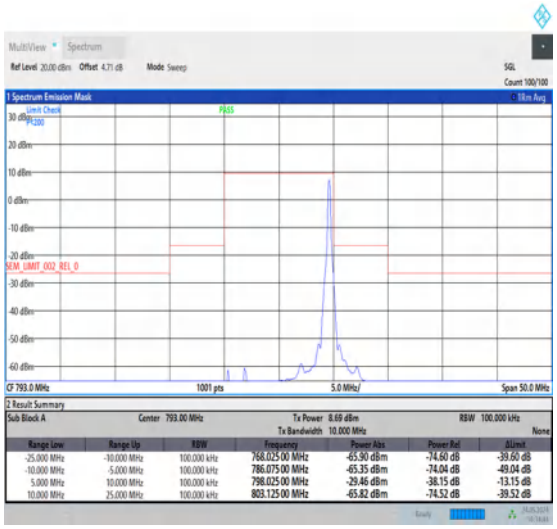

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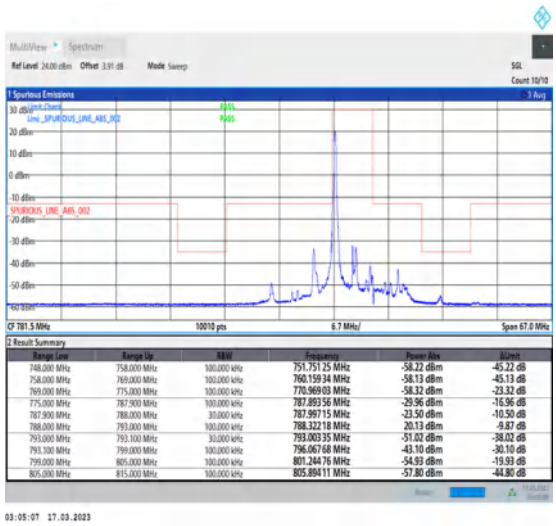
Band Edge for SA

Test Graphs



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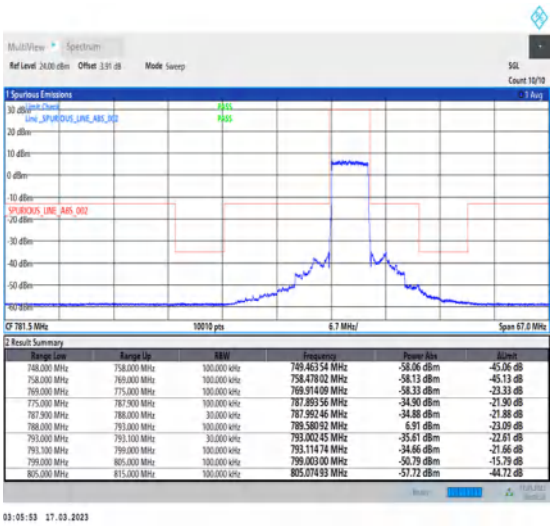

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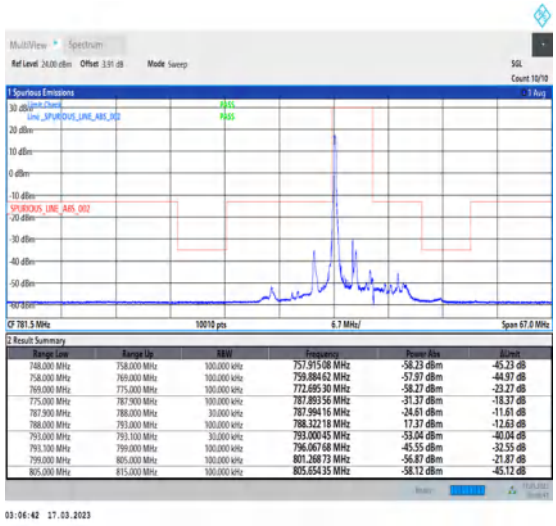

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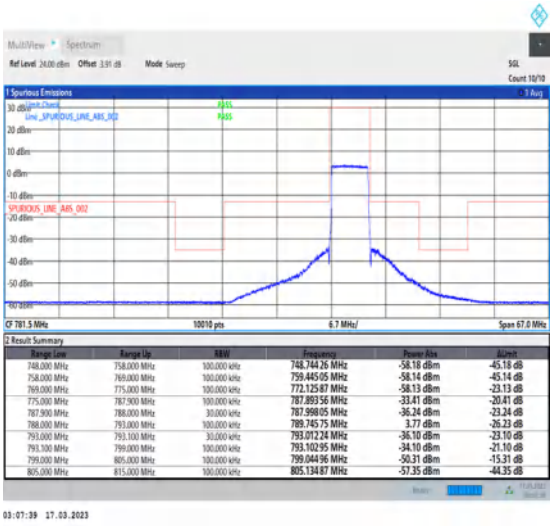

1-N14-PC3-15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant7-1--PASS-see graph

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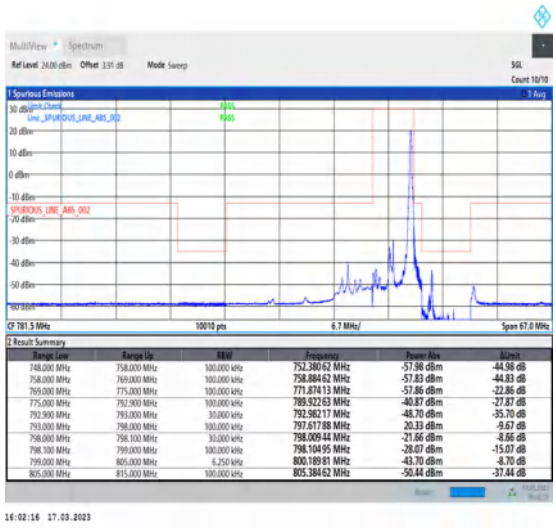
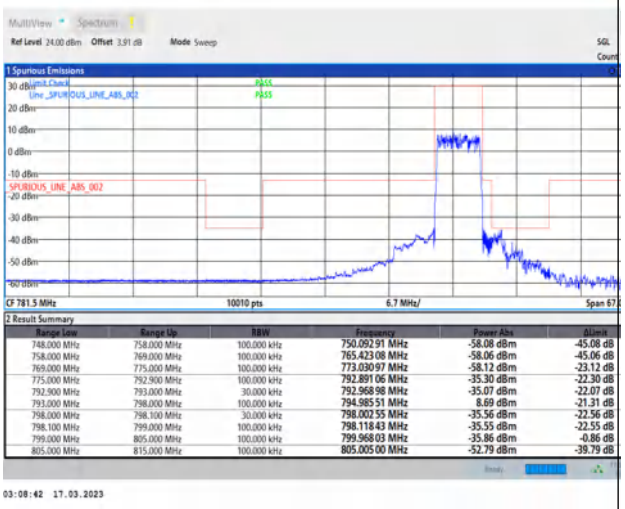


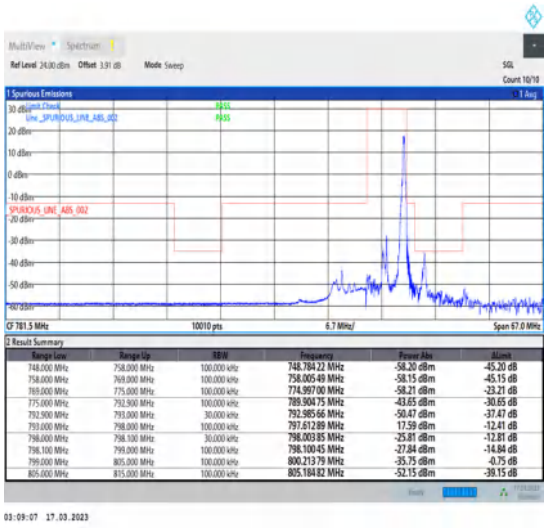
Range Low	Range Up	RBW	Frequency	Power Abs	dLimit
748.000 MHz	758.000 MHz	100.000 kHz	752.380 62 MHz	-57.98 dBm	-44.98 dB
758.000 MHz	769.000 MHz	100.000 kHz	758.884 62 MHz	-57.83 dBm	-44.83 dB
769.000 MHz	775.000 MHz	100.000 kHz	771.874 13 MHz	-57.86 dBm	-22.86 dB
775.000 MHz	792.900 MHz	100.000 kHz	789.922 63 MHz	-40.87 dBm	-27.87 dB
792.900 MHz	793.000 MHz	30.000 kHz	792.982 17 MHz	-48.70 dBm	-35.70 dB
793.000 MHz	798.000 MHz	100.000 kHz	797.617 88 MHz	20.33 dBm	-9.67 dB
798.000 MHz	798.100 MHz	30.000 kHz	798.009 44 MHz	-21.66 dBm	-8.66 dB
798.100 MHz	799.000 MHz	100.000 kHz	798.104 95 MHz	-28.07 dBm	-15.07 dB
799.000 MHz	805.000 MHz	6.250 kHz	800.189 81 MHz	-43.70 dBm	-8.70 dB
805.000 MHz	815.000 MHz	100.000 kHz	805.384 62 MHz	-50.44 dBm	-37.44 dB

1-N14-PC3-15-5-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@24-Ant7-1--PASS-see graph



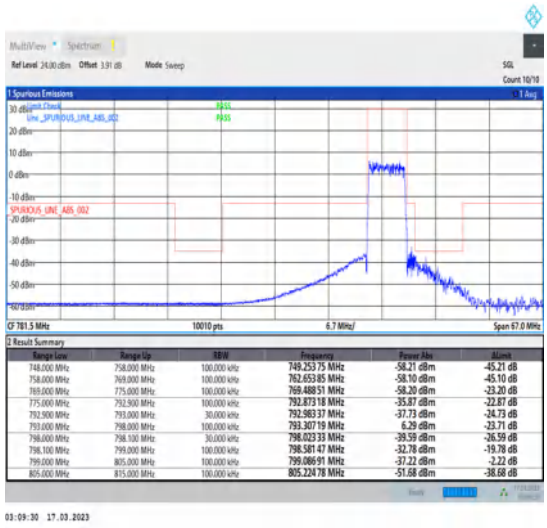
Range Low	Range Up	RBW	Frequency	Power Abs	dLimit
748.000 MHz	758.000 MHz	100.000 kHz	750.092 91 MHz	-58.08 dBm	-45.08 dB
758.000 MHz	769.000 MHz	100.000 kHz	765.423 08 MHz	-58.06 dBm	-45.06 dB
769.000 MHz	775.000 MHz	100.000 kHz	773.030 97 MHz	-58.12 dBm	-23.12 dB
775.000 MHz	792.900 MHz	100.000 kHz	792.891 06 MHz	-35.30 dBm	-22.30 dB
792.900 MHz	793.000 MHz	30.000 kHz	792.968 98 MHz	-35.07 dBm	-22.07 dB
793.000 MHz	798.000 MHz	100.000 kHz	794.985 51 MHz	8.69 dBm	-21.31 dB
798.000 MHz	798.100 MHz	30.000 kHz	798.002 55 MHz	-35.56 dBm	-22.56 dB
798.100 MHz	799.000 MHz	100.000 kHz	798.118 43 MHz	-35.55 dBm	-22.55 dB
799.000 MHz	805.000 MHz	100.000 kHz	799.968 03 MHz	-35.86 dBm	-0.86 dB
805.000 MHz	815.000 MHz	100.000 kHz	805.005 00 MHz	-52.79 dBm	-39.79 dB

1-N14-PC3-15-5-H-3-DFT-PI2BPSK-Outer_Full-25@0-Ant7-1--PASS-see graph



Range Low	Range Up	RBW	Frequency	Power Abs	dLimit
748.000 MHz	758.000 MHz	100.000 kHz	748.784 22 MHz	-58.20 dBm	-45.20 dB
758.000 MHz	769.000 MHz	100.000 kHz	758.005 49 MHz	-58.15 dBm	-45.15 dB
769.000 MHz	775.000 MHz	100.000 kHz	774.997 00 MHz	-58.21 dBm	-23.21 dB
775.000 MHz	792.900 MHz	100.000 kHz	789.904 75 MHz	-43.65 dBm	-30.65 dB
792.900 MHz	793.000 MHz	30.000 kHz	792.985 66 MHz	-50.47 dBm	-37.47 dB
793.000 MHz	798.000 MHz	100.000 kHz	797.612 89 MHz	17.59 dBm	-12.41 dB
798.000 MHz	798.100 MHz	30.000 kHz	798.003 85 MHz	-25.81 dBm	-12.81 dB
798.100 MHz	799.000 MHz	100.000 kHz	798.100 45 MHz	-27.84 dBm	-14.84 dB
799.000 MHz	805.000 MHz	100.000 kHz	800.213 79 MHz	-35.75 dBm	-0.75 dB
805.000 MHz	815.000 MHz	100.000 kHz	805.184 82 MHz	-52.15 dBm	-39.15 dB

1-N14-PC3-15-5-H-5-CP-QPSK-Edge_1RB_Right-1@24-Ant7-1--PASS-see graph



Range Low	Range Up	RBW	Frequency	Power Abs	dLimit
748.000 MHz	758.000 MHz	100.000 kHz	749.253 75 MHz	-58.21 dBm	-45.21 dB
758.000 MHz	769.000 MHz	100.000 kHz	762.653 85 MHz	-58.10 dBm	-45.10 dB
769.000 MHz	775.000 MHz	100.000 kHz	769.488 51 MHz	-58.20 dBm	-23.20 dB
775.000 MHz	792.900 MHz	100.000 kHz	792.873 18 MHz	-35.87 dBm	-22.87 dB
792.900 MHz	793.000 MHz	30.000 kHz	792.983 37 MHz	-37.73 dBm	-24.73 dB
793.000 MHz	798.000 MHz	100.000 kHz	793.307 19 MHz	6.29 dBm	-23.71 dB
798.000 MHz	798.100 MHz	30.000 kHz	798.023 33 MHz	-39.59 dBm	-26.59 dB
798.100 MHz	799.000 MHz	100.000 kHz	798.581 47 MHz	-32.78 dBm	-19.78 dB
799.000 MHz	805.000 MHz	100.000 kHz	799.086 91 MHz	-37.22 dBm	-2.22 dB
805.000 MHz	815.000 MHz	100.000 kHz	805.224 78 MHz	-51.68 dBm	-38.68 dB

1-N14-PC3-15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant7-1--PASS-see graph

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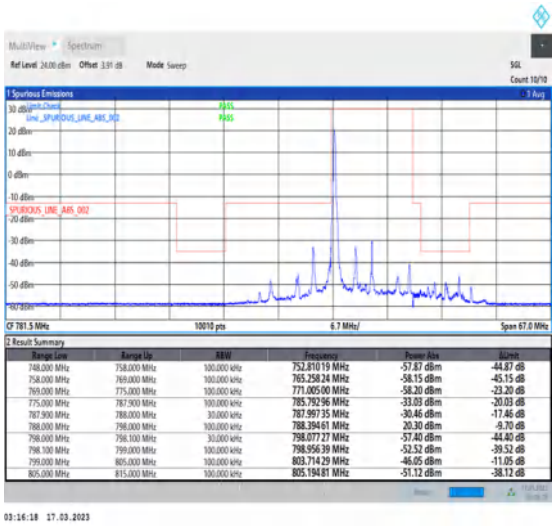

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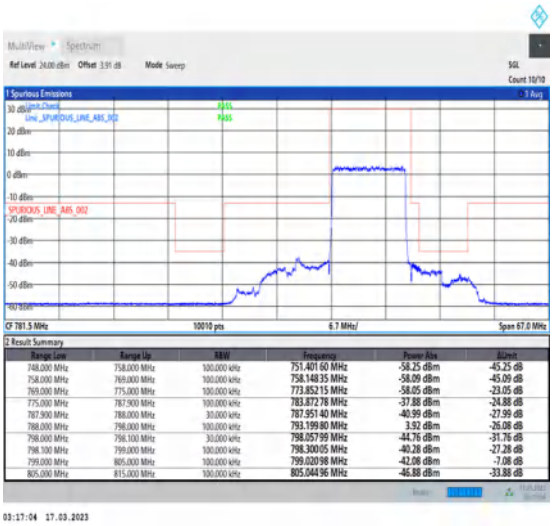

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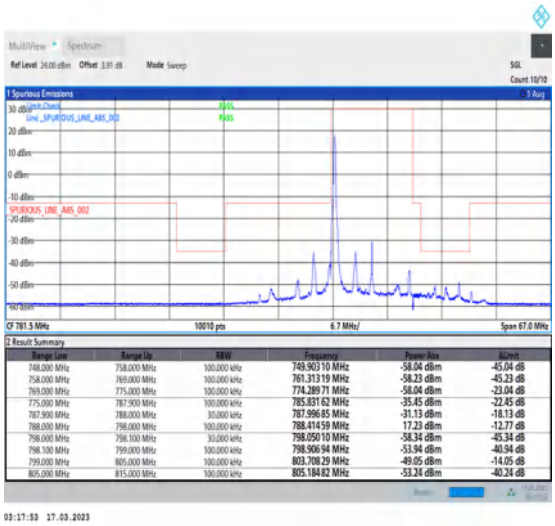

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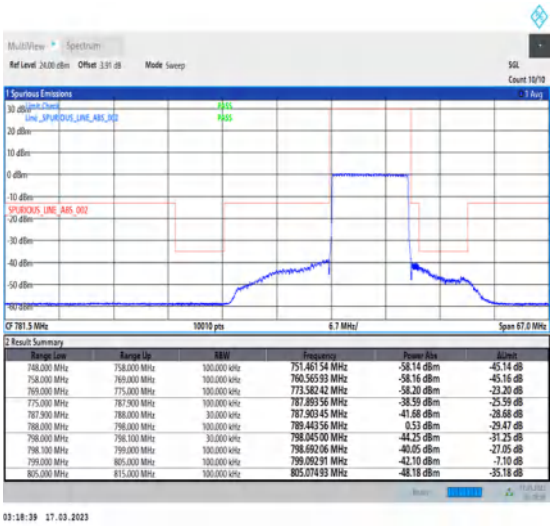

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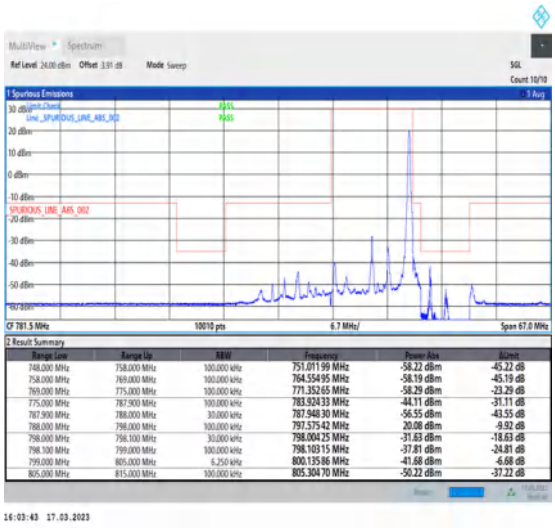

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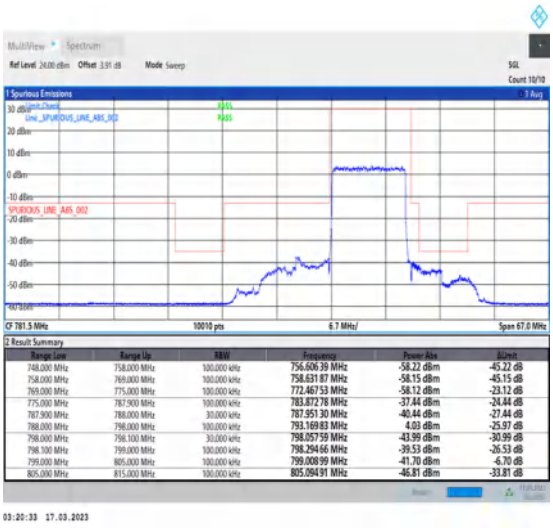

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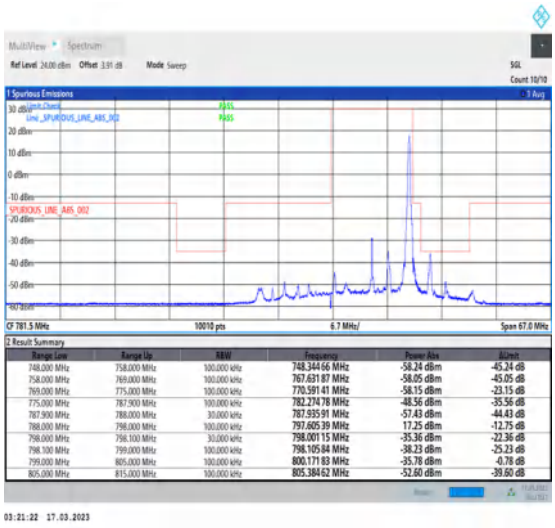

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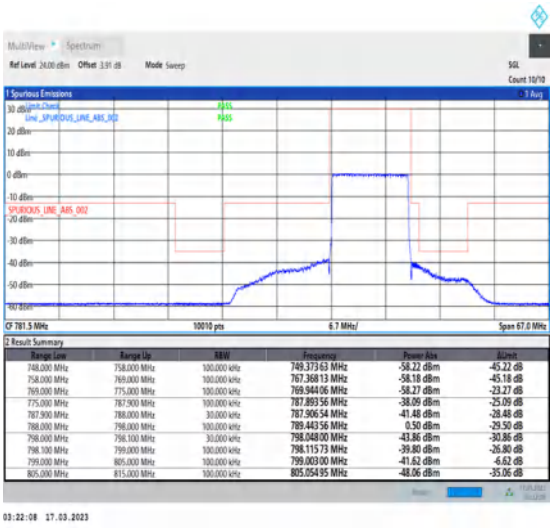

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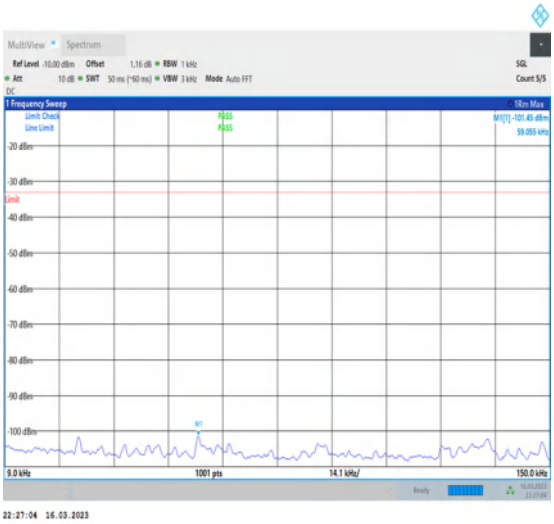
Test Graphs



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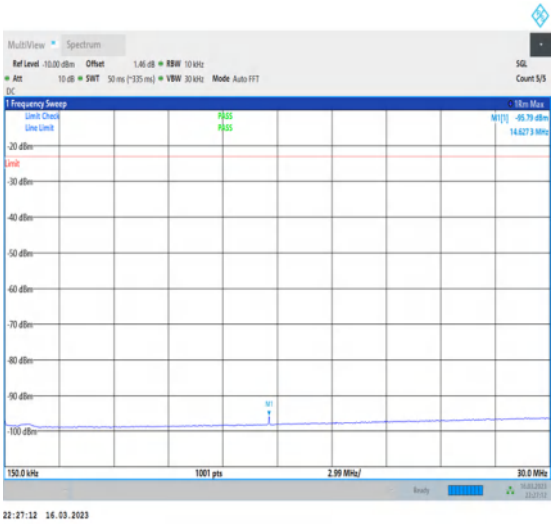

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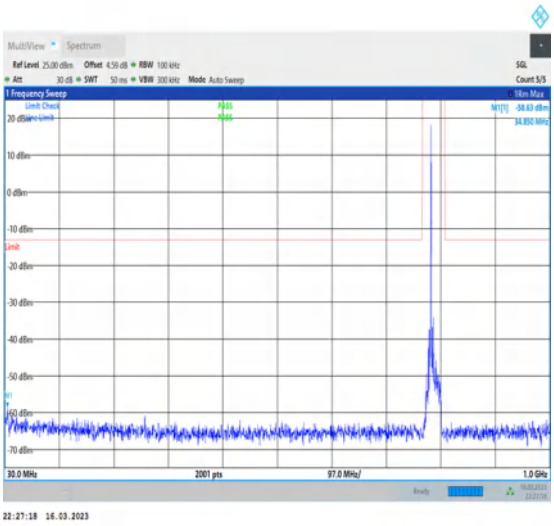

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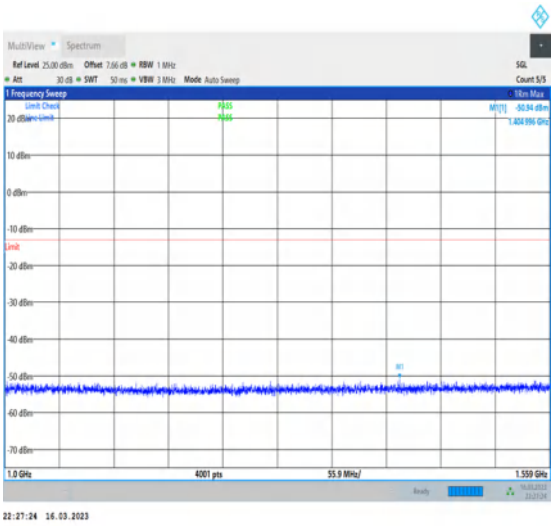

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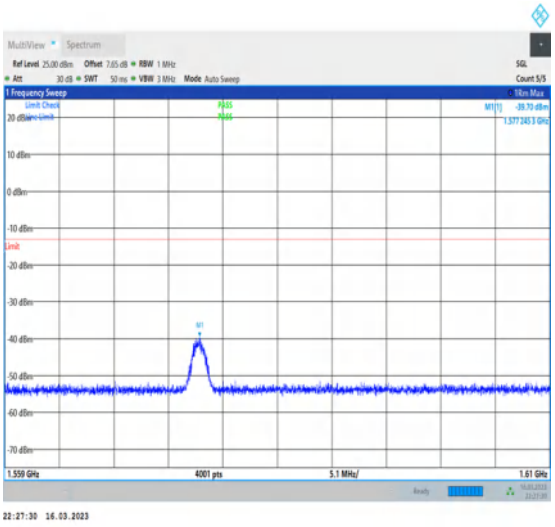

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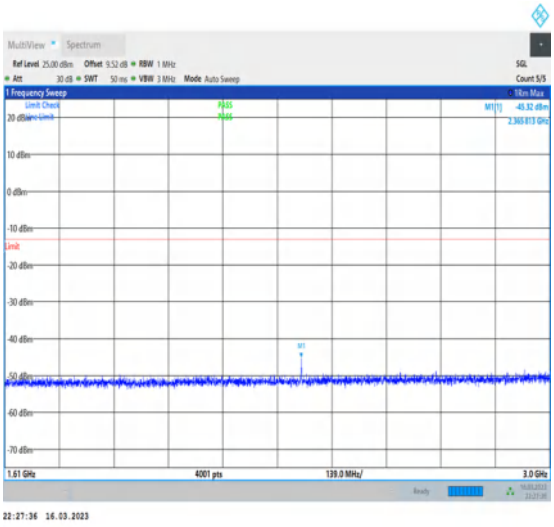

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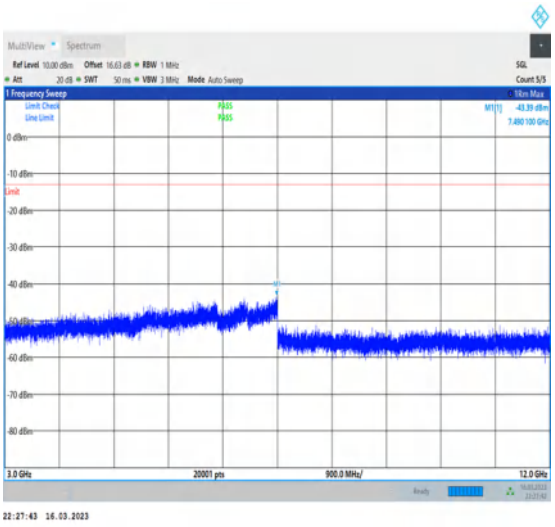

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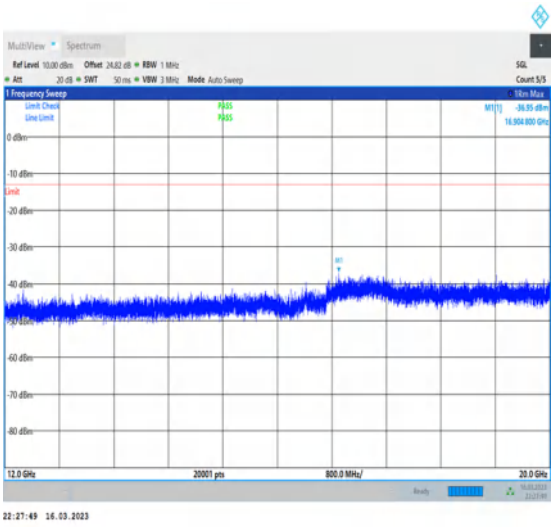

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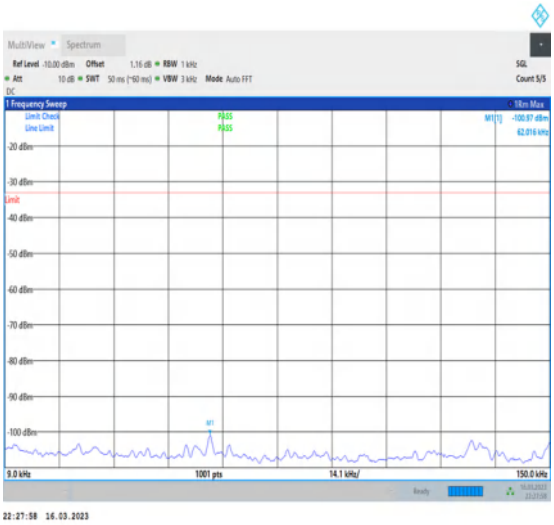

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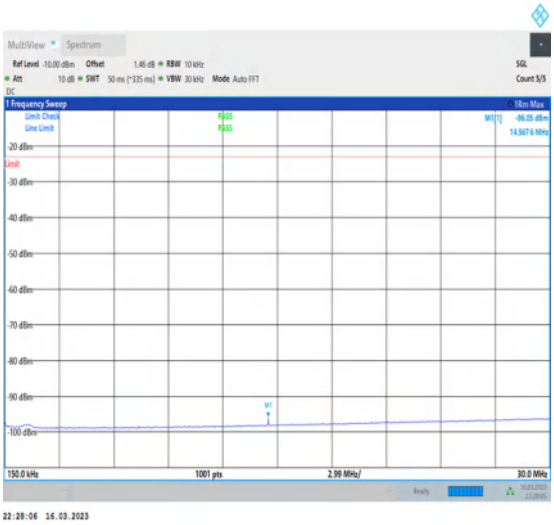

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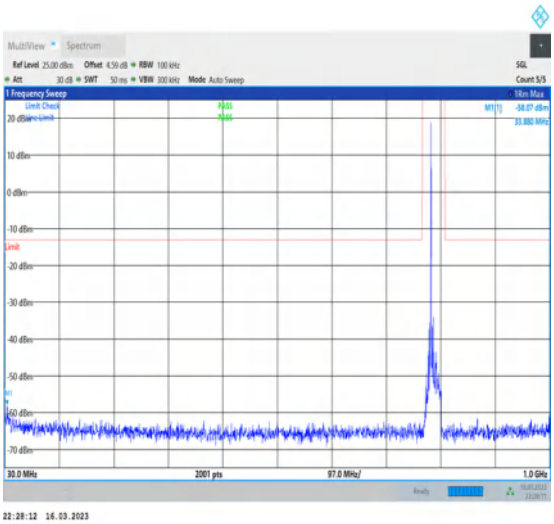

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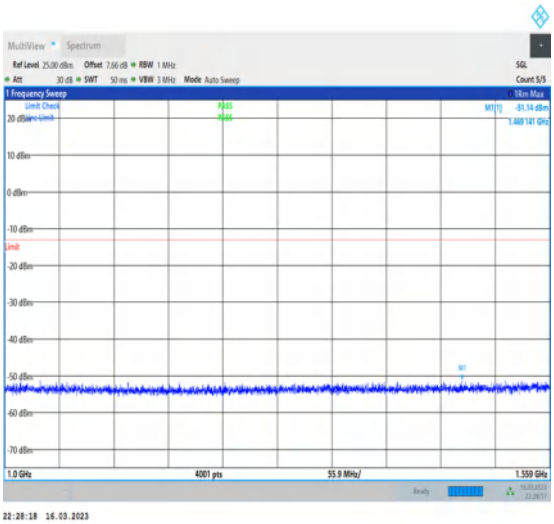

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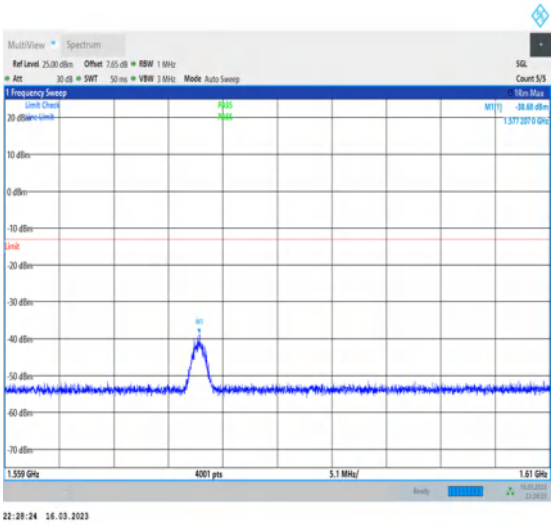

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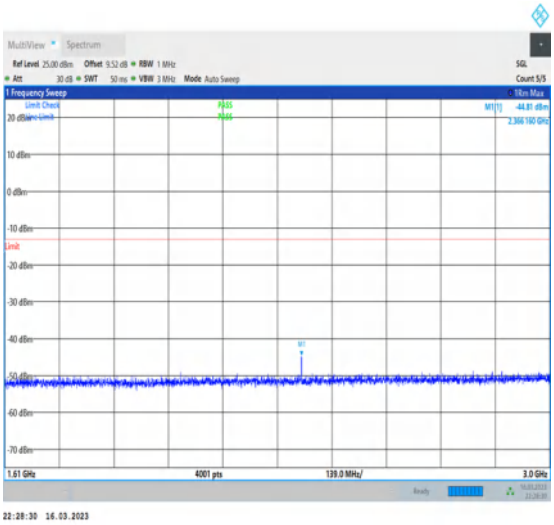

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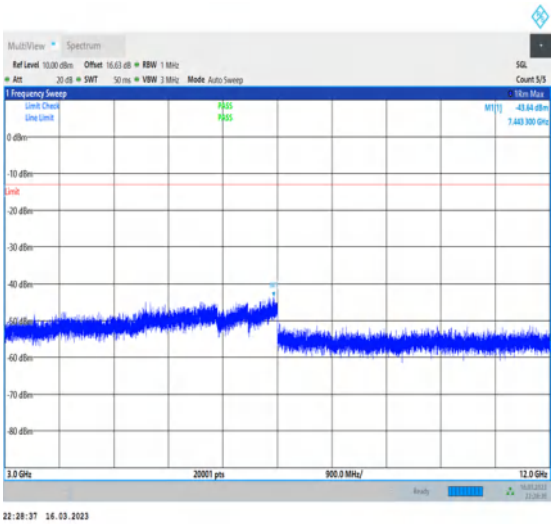

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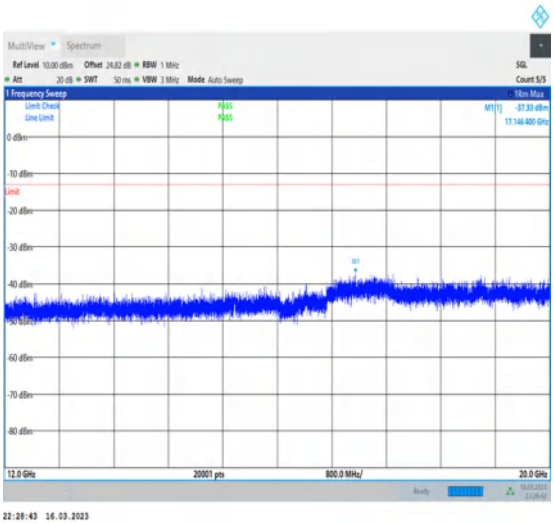

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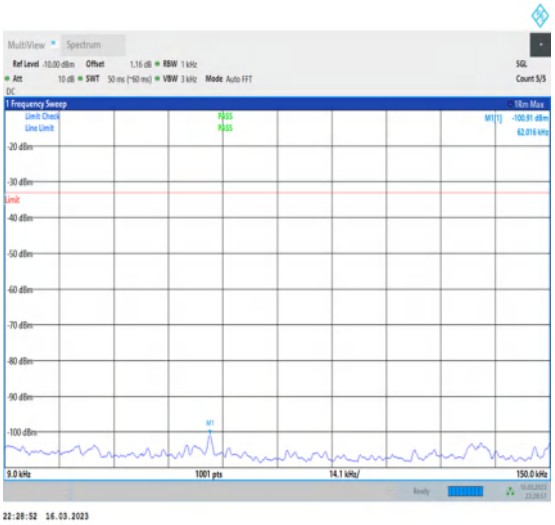

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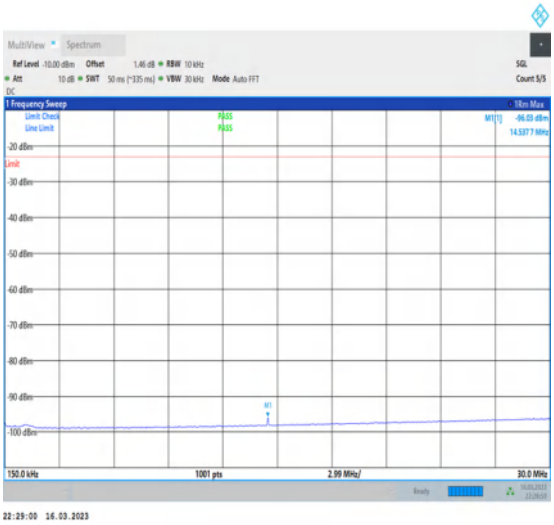

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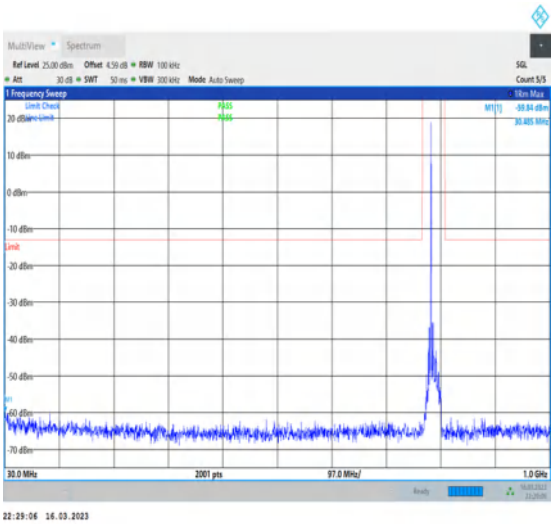

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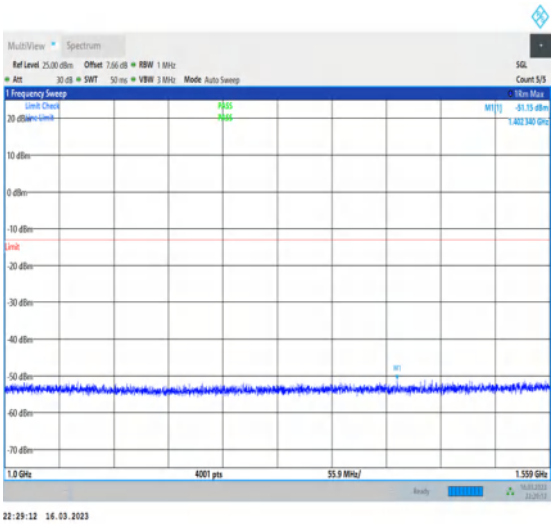

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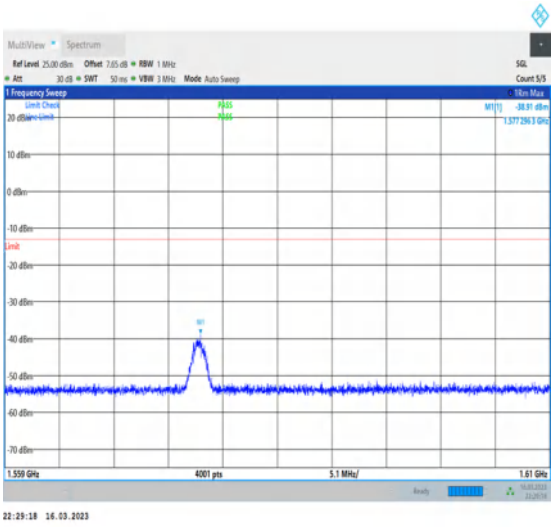	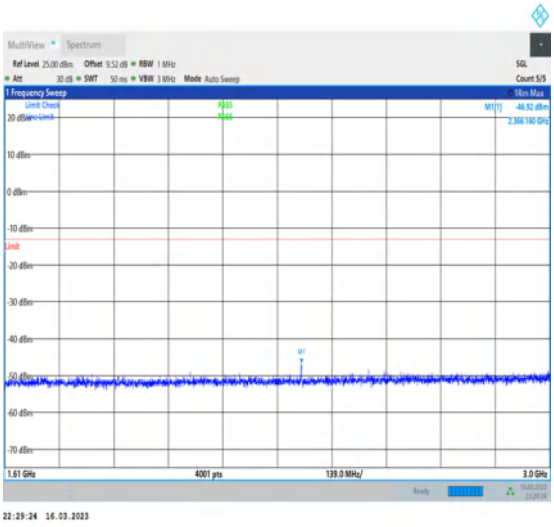
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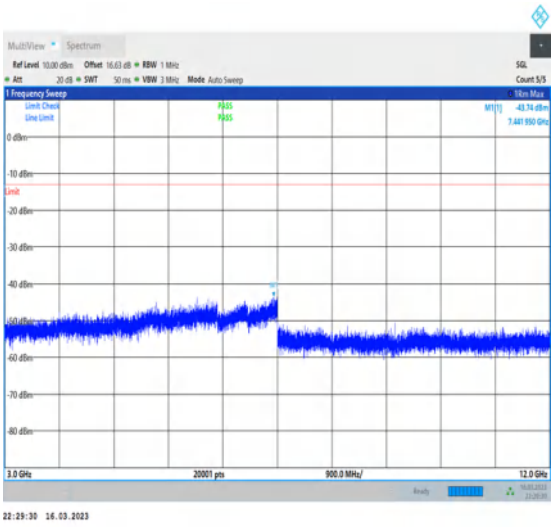	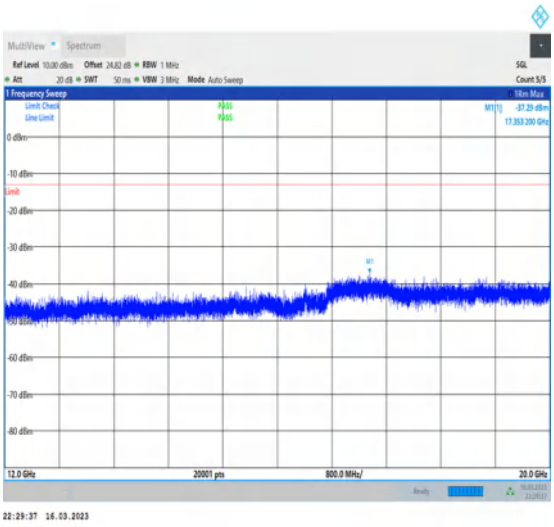
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Note：The limit of 1559-1610MHZ is -40dBm, and the worst point meets the limit requirement

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Member of the SGS Group (SGS SA)

Field Strength of Spurious Radiation

Test Band = SA Band14_10MHz_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.1800	44.08	-48.29	25.38	-74.09	-40.00	34.09	218	117	Horizontal
2	2365.7700	43.55	-47.47	27.42	-71.75	-13.00	58.75	149	86	Horizontal
3	3154.3600	42.86	-46.50	29.61	-69.29	-13.00	56.29	255	0	Horizontal
4	3942.9500	41.90	-46.22	30.67	-68.91	-13.00	55.91	163	26	Horizontal
5	4731.5400	42.01	-45.75	32.11	-66.89	-13.00	53.89	287	295	Horizontal
6	5520.1300	41.21	-45.17	32.93	-66.28	-13.00	53.28	138	13	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.1800	44.17	-48.29	25.38	-74.00	-40.00	34.00	287	268	Vertical
2	2365.7700	43.60	-47.47	27.42	-71.70	-13.00	58.70	144	349	Vertical
3	3154.3600	43.02	-46.50	29.61	-69.13	-13.00	56.13	162	196	Vertical
4	3942.9500	42.26	-46.22	30.67	-68.55	-13.00	55.55	205	123	Vertical
5	4731.5400	41.99	-45.75	32.11	-66.91	-13.00	53.91	286	170	Vertical
6	5520.1300	41.43	-45.17	32.93	-66.06	-13.00	53.06	299	255	Vertical

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Test Band = SA Band14_5MHz_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.6800	45.10	-48.29	25.37	-73.07	-40.00	33.07	294	0	Horizontal
2	2372.5200	43.58	-47.46	27.43	-71.72	-13.00	58.72	158	356	Horizontal
3	3163.3600	43.55	-46.46	29.62	-68.55	-13.00	55.55	293	135	Horizontal
4	3954.2000	42.54	-46.21	30.69	-68.24	-13.00	55.24	211	306	Horizontal
5	4745.0400	42.20	-45.73	32.15	-66.64	-13.00	53.64	136	1	Horizontal
6	5535.8800	41.04	-45.19	32.95	-66.46	-13.00	53.46	152	359	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.6800	44.83	-48.29	25.37	-73.34	-40.00	33.34	185	157	Vertical
2	2372.5200	43.91	-47.46	27.43	-71.39	-13.00	58.39	244	0	Vertical
3	3163.3600	43.99	-46.46	29.62	-68.11	-13.00	55.11	192	40	Vertical
4	3954.2000	42.95	-46.21	30.69	-67.83	-13.00	54.83	235	1	Vertical
5	4745.0400	42.13	-45.73	32.15	-66.71	-13.00	53.71	284	186	Vertical
6	5535.8800	40.90	-45.19	32.95	-66.60	-13.00	53.60	162	54	Vertical

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Test Band = SA Band14_5MHz_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.6800	44.75	-48.29	25.37	-73.43	-40.00	33.43	187	341	Horizontal
2	2380.0200	43.99	-47.46	27.43	-71.30	-13.00	58.30	149	329	Horizontal
3	3173.3600	42.70	-46.41	29.64	-69.33	-13.00	56.33	255	355	Horizontal
4	3966.7000	42.43	-46.21	30.72	-68.32	-13.00	55.32	186	289	Horizontal
5	4760.0400	41.29	-45.70	32.20	-67.47	-13.00	54.47	214	103	Horizontal
6	5553.3800	40.96	-45.21	32.97	-66.54	-13.00	53.54	133	130	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.6800	44.49	-48.29	25.37	-73.69	-40.00	33.69	219	58	Vertical
2	2380.0200	43.57	-47.46	27.43	-71.72	-13.00	58.72	258	357	Vertical
3	3173.3600	42.64	-46.41	29.64	-69.39	-13.00	56.39	162	334	Vertical
4	3966.7000	42.54	-46.21	30.72	-68.21	-13.00	55.21	132	2	Vertical
5	4760.0400	41.36	-45.70	32.20	-67.40	-13.00	54.40	184	357	Vertical
6	5553.3800	41.20	-45.21	32.97	-66.30	-13.00	53.30	165	357	Vertical

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Test Band = SA Band14_5MHz_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.1800	44.46	-48.29	25.38	-73.71	-40.00	33.71	187	38	Horizontal
2	2365.7700	43.99	-47.47	27.42	-71.31	-13.00	58.31	194	222	Horizontal
3	3154.3600	42.85	-46.50	29.61	-69.30	-13.00	56.30	215	130	Horizontal
4	3942.9500	42.39	-46.22	30.67	-68.42	-13.00	55.42	162	331	Horizontal
5	4731.5400	42.47	-45.75	32.11	-66.43	-13.00	53.43	188	355	Horizontal
6	5520.1300	40.86	-45.17	32.93	-66.63	-13.00	53.63	175	12	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.1800	44.78	-48.29	25.38	-73.39	-40.00	33.39	166	348	Vertical
2	2365.7700	44.22	-47.47	27.42	-71.08	-13.00	58.08	195	0	Vertical
3	3154.3600	42.89	-46.50	29.61	-69.26	-13.00	56.26	325	188	Vertical
4	3942.9500	42.10	-46.22	30.67	-68.71	-13.00	55.71	172	357	Vertical
5	4731.5400	41.68	-45.75	32.11	-67.22	-13.00	54.22	214	297	Vertical
6	5520.1300	41.05	-45.17	32.93	-66.44	-13.00	53.44	182	267	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

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N14	15	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	2.500000	0.003153	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	2.500000	0.003153	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	VL	NT	2.600000	0.003279	PASS
N14	15	10	CP-QPSK	M	Outer_Full	VH	NT	5.200000	0.006557	PASS
N14	15	10	CP-QPSK	M	Outer_Full	VN	NT	3.000000	0.003783	PASS
N14	15	10	CP-QPSK	M	Outer_Full	VL	NT	10.400000	0.013115	PASS

Frequency Error VS. Temperature

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	1.600000	0.002018	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	3.600000	0.004540	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	3.400000	0.004288	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	0	1.800000	0.002270	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	10	3.500000	0.004414	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	20	2.200000	0.002774	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	30	4.400000	0.005549	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	40	4.200000	0.005296	PASS
N14	15	10	DFT-	M	Outer_Full	NV	50	5.300000	0.006683	PASS

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			PI2BPSK							
N14	15	10	CP-QPSK	M	Outer_Full	NV	-30	2.900000	0.003657	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	-20	5.100000	0.006431	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	-10	5.800000	0.007314	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	0	6.900000	0.008701	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	10	4.500000	0.005675	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	20	2.900000	0.003657	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	30	5.000000	0.006305	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	40	5.100000	0.006431	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	50	4.000000	0.005044	PASS

---End of Attachment---

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