Appendix B.13

NR Band n12

Effective (Isotropic) Radiated Power Output Data for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	Limit	Verdict
N12	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	23.39	22.85	34.77	PASS
N12	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	23.34	21.19	34.77	PASS
N12	15	5	DFT-PI2BPSK	L	Outer_Full	22.41	20.26	34.77	PASS
N12	15	5	DFT-QPSK	L	Inner_1RB_Left	23.37	21.22	34.77	PASS
N12	15	5	DFT-QPSK	L	Inner_1RB_Right	23.38	21.23	34.77	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	22.42	20.27	34.77	PASS
N12	15	5	DFT-16QAM	L	Inner_1RB_Left	22.17	20.02	34.77	PASS
N12	15	5	DFT-16QAM	L	Inner_1RB_Right	22.19	20.04	34.77	PASS
N12	15	5	DFT-16QAM	L	Outer_Full	21.45	19.3	34.77	PASS
N12	15	5	DFT-64QAM	L	Inner_1RB_Left	20.92	18.77	34.77	PASS
N12	15	5	DFT-64QAM	L	Inner_1RB_Right	20.97	18.82	34.77	PASS
N12	15	5	DFT-64QAM	L	Outer_Full	20.95	18.8	34.77	PASS
N12	15	5	DFT-256QAM	L	Inner_1RB_Left	18.79	16.64	34.77	PASS
N12	15	5	DFT-256QAM	L	Inner_1RB_Right	18.78	16.63	34.77	PASS
N12	15	5	DFT-256QAM	L	Outer_Full	18.79	16.64	34.77	PASS
N12	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	23.3	21.15	34.77	PASS
N12	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	23.26	21.11	34.77	PASS
N12	15	5	DFT-PI2BPSK	M	Outer_Full	22.29	20.14	34.77	PASS
N12	15	5	DFT-QPSK	M	Inner_1RB_Left	23.36	21.21	34.77	PASS
N12	15	5	DFT-QPSK	M	Inner_1RB_Right	23.32	21.17	34.77	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	22.29	20.14	34.77	PASS
N12	15	5	DFT-16QAM	M	Inner_1RB_Left	22.09	19.94	34.77	PASS
N12	15	5	DFT-16QAM	M	Inner_1RB_Right	22.5	20.35	34.77	PASS
N12	15	5	DFT-16QAM	M	Outer_Full	21.27	19.12	34.77	PASS
N12	15	5	DFT-64QAM	M	Inner_1RB_Left	20.86	18.71	34.77	PASS
N12	15	5	DFT-64QAM	M	Inner_1RB_Right	20.93	18.78	34.77	PASS
N12	15	5	DFT-64QAM	M	Outer_Full	20.81	18.66	34.77	PASS
N12	15	5	DFT-256QAM	M	Inner_1RB_Left	18.76	16.61	34.77	PASS
N12	15	5	DFT-256QAM	M	Inner_1RB_Right	18.7	16.55	34.77	PASS
N12	15	5	DFT-256QAM	M	Outer_Full	18.77	16.62	34.77	PASS
N12	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	23.28	21.13	34.77	PASS

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N12	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	23.27	21.12	34.77	PASS
N12	15	5	DFT-PI2BPSK	H	Outer_Full	22.3	20.15	34.77	PASS
N12	15	5	DFT-QPSK	H	Inner_1RB_Left	23.29	21.14	34.77	PASS
N12	15	5	DFT-QPSK	H	Inner_1RB_Right	23.25	21.1	34.77	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	22.27	20.12	34.77	PASS
N12	15	5	DFT-16QAM	H	Inner_1RB_Left	22.49	20.34	34.77	PASS
N12	15	5	DFT-16QAM	H	Inner_1RB_Right	22.06	19.91	34.77	PASS
N12	15	5	DFT-16QAM	H	Outer_Full	21.28	19.13	34.77	PASS
N12	15	5	DFT-64QAM	H	Inner_1RB_Left	20.9	18.75	34.77	PASS
N12	15	5	DFT-64QAM	H	Inner_1RB_Right	20.85	18.7	34.77	PASS
N12	15	5	DFT-64QAM	H	Outer_Full	20.81	18.66	34.77	PASS
N12	15	5	DFT-256QAM	H	Inner_1RB_Left	18.78	16.63	34.77	PASS
N12	15	5	DFT-256QAM	H	Inner_1RB_Right	18.76	16.61	34.77	PASS
N12	15	5	DFT-256QAM	H	Outer_Full	18.82	16.67	34.77	PASS
N12	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	23.39	21.24	34.77	PASS
N12	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	23.27	21.12	34.77	PASS
N12	15	10	DFT-PI2BPSK	L	Outer_Full	22.37	20.22	34.77	PASS
N12	15	10	DFT-QPSK	L	Inner_1RB_Left	23.42	21.27	34.77	PASS
N12	15	10	DFT-QPSK	L	Inner_1RB_Right	23.27	21.12	34.77	PASS
N12	15	10	DFT-QPSK	L	Outer_Full	22.42	20.27	34.77	PASS
N12	15	10	DFT-16QAM	L	Inner_1RB_Left	22.3	20.15	34.77	PASS
N12	15	10	DFT-16QAM	L	Inner_1RB_Right	22.14	19.99	34.77	PASS
N12	15	10	DFT-16QAM	L	Outer_Full	21.4	19.25	34.77	PASS
N12	15	10	DFT-64QAM	L	Inner_1RB_Left	20.85	18.7	34.77	PASS
N12	15	10	DFT-64QAM	L	Inner_1RB_Right	20.7	18.55	34.77	PASS
N12	15	10	DFT-64QAM	L	Outer_Full	20.92	18.77	34.77	PASS
N12	15	10	DFT-256QAM	L	Inner_1RB_Left	18.89	16.74	34.77	PASS
N12	15	10	DFT-256QAM	L	Inner_1RB_Right	18.91	16.76	34.77	PASS
N12	15	10	DFT-256QAM	L	Outer_Full	18.9	16.75	34.77	PASS
N12	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	23.38	21.23	34.77	PASS
N12	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	23.34	21.19	34.77	PASS
N12	15	10	DFT-PI2BPSK	M	Outer_Full	22.36	20.21	34.77	PASS
N12	15	10	DFT-QPSK	M	Inner_1RB_Left	23.45	21.3	34.77	PASS
N12	15	10	DFT-QPSK	M	Inner_1RB_Right	23.33	21.18	34.77	PASS
N12	15	10	DFT-QPSK	M	Outer_Full	22.33	20.18	34.77	PASS
N12	15	10	DFT-16QAM	M	Inner_1RB_Left	22.22	20.07	34.77	PASS
N12	15	10	DFT-16QAM	M	Inner_1RB_Right	22.09	19.94	34.77	PASS
N12	15	10	DFT-16QAM	M	Outer_Full	21.34	19.19	34.77	PASS

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N12	15	10	DFT-64QAM	M	Inner_1RB_Left	21.07	18.92	34.77	PASS
N12	15	10	DFT-64QAM	M	Inner_1RB_Right	20.94	18.79	34.77	PASS
N12	15	10	DFT-64QAM	M	Outer_Full	20.84	18.69	34.77	PASS
N12	15	10	DFT-256QAM	M	Inner_1RB_Left	18.77	16.62	34.77	PASS
N12	15	10	DFT-256QAM	M	Inner_1RB_Right	18.9	16.75	34.77	PASS
N12	15	10	DFT-256QAM	M	Outer_Full	18.91	16.76	34.77	PASS
N12	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	23.36	21.21	34.77	PASS
N12	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	23.3	21.15	34.77	PASS
N12	15	10	DFT-PI2BPSK	H	Outer_Full	22.39	20.24	34.77	PASS
N12	15	10	DFT-QPSK	H	Inner_1RB_Left	23.37	21.22	34.77	PASS
N12	15	10	DFT-QPSK	H	Inner_1RB_Right	23.32	21.17	34.77	PASS
N12	15	10	DFT-QPSK	H	Outer_Full	22.43	20.28	34.77	PASS
N12	15	10	DFT-16QAM	H	Inner_1RB_Left	22.13	19.98	34.77	PASS
N12	15	10	DFT-16QAM	H	Inner_1RB_Right	22.11	19.96	34.77	PASS
N12	15	10	DFT-16QAM	H	Outer_Full	21.41	19.26	34.77	PASS
N12	15	10	DFT-64QAM	H	Inner_1RB_Left	20.95	18.8	34.77	PASS
N12	15	10	DFT-64QAM	H	Inner_1RB_Right	20.89	18.74	34.77	PASS
N12	15	10	DFT-64QAM	H	Outer_Full	20.93	18.78	34.77	PASS
N12	15	10	DFT-256QAM	H	Inner_1RB_Left	18.79	16.64	34.77	PASS
N12	15	10	DFT-256QAM	H	Inner_1RB_Right	18.85	16.7	34.77	PASS
N12	15	10	DFT-256QAM	H	Outer_Full	18.81	16.66	34.77	PASS
N12	15	15	DFT-PI2BPSK	L	Inner_1RB_Left	23.49	21.34	34.77	PASS
N12	15	15	DFT-PI2BPSK	L	Inner_1RB_Right	23.32	21.17	34.77	PASS
N12	15	15	DFT-PI2BPSK	L	Outer_Full	22.47	20.32	34.77	PASS
N12	15	15	DFT-QPSK	L	Inner_1RB_Left	23.46	21.31	34.77	PASS
N12	15	15	DFT-QPSK	L	Inner_1RB_Right	23.39	21.24	34.77	PASS
N12	15	15	DFT-QPSK	L	Outer_Full	22.44	20.29	34.77	PASS
N12	15	15	DFT-16QAM	L	Inner_1RB_Left	22.2	20.05	34.77	PASS
N12	15	15	DFT-16QAM	L	Inner_1RB_Right	22.07	19.92	34.77	PASS
N12	15	15	DFT-16QAM	L	Outer_Full	21.47	19.32	34.77	PASS
N12	15	15	DFT-64QAM	L	Inner_1RB_Left	21.07	18.92	34.77	PASS
N12	15	15	DFT-64QAM	L	Inner_1RB_Right	20.91	18.76	34.77	PASS
N12	15	15	DFT-64QAM	L	Outer_Full	21.01	18.86	34.77	PASS
N12	15	15	DFT-256QAM	L	Inner_1RB_Left	18.93	16.78	34.77	PASS
N12	15	15	DFT-256QAM	L	Inner_1RB_Right	18.82	16.67	34.77	PASS
N12	15	15	DFT-256QAM	L	Outer_Full	19.03	16.88	34.77	PASS
N12	15	15	DFT-PI2BPSK	M	Inner_1RB_Left	23.46	21.31	34.77	PASS
N12	15	15	DFT-PI2BPSK	M	Inner_1RB_Right	23.29	21.14	34.77	PASS

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N12	15	15	DFT-PI2BPSK	M	Outer_Full	22.41	20.26	34.77	PASS
N12	15	15	DFT-QPSK	M	Inner_1RB_Left	23.45	21.3	34.77	PASS
N12	15	15	DFT-QPSK	M	Inner_1RB_Right	23.34	21.19	34.77	PASS
N12	15	15	DFT-QPSK	M	Outer_Full	22.47	20.32	34.77	PASS
N12	15	15	DFT-16QAM	M	Inner_1RB_Left	22.19	20.04	34.77	PASS
N12	15	15	DFT-16QAM	M	Inner_1RB_Right	22.06	19.91	34.77	PASS
N12	15	15	DFT-16QAM	M	Outer_Full	21.46	19.31	34.77	PASS
N12	15	15	DFT-64QAM	M	Inner_1RB_Left	21.04	18.89	34.77	PASS
N12	15	15	DFT-64QAM	M	Inner_1RB_Right	20.91	18.76	34.77	PASS
N12	15	15	DFT-64QAM	M	Outer_Full	20.95	18.8	34.77	PASS
N12	15	15	DFT-256QAM	M	Inner_1RB_Left	18.91	16.76	34.77	PASS
N12	15	15	DFT-256QAM	M	Inner_1RB_Right	18.89	16.74	34.77	PASS
N12	15	15	DFT-256QAM	M	Outer_Full	19	16.85	34.77	PASS
N12	15	15	DFT-PI2BPSK	H	Inner_1RB_Left	23.44	21.29	34.77	PASS
N12	15	15	DFT-PI2BPSK	H	Inner_1RB_Right	23.31	21.16	34.77	PASS
N12	15	15	DFT-PI2BPSK	H	Outer_Full	22.41	20.26	34.77	PASS
N12	15	15	DFT-QPSK	H	Inner_1RB_Left	23.45	21.3	34.77	PASS
N12	15	15	DFT-QPSK	H	Inner_1RB_Right	23.32	21.17	34.77	PASS
N12	15	15	DFT-QPSK	H	Outer_Full	22.45	20.3	34.77	PASS
N12	15	15	DFT-16QAM	H	Inner_1RB_Left	22.17	20.02	34.77	PASS
N12	15	15	DFT-16QAM	H	Inner_1RB_Right	22.08	19.93	34.77	PASS
N12	15	15	DFT-16QAM	H	Outer_Full	21.42	19.27	34.77	PASS
N12	15	15	DFT-64QAM	H	Inner_1RB_Left	21.01	18.86	34.77	PASS
N12	15	15	DFT-64QAM	H	Inner_1RB_Right	20.91	18.76	34.77	PASS
N12	15	15	DFT-64QAM	H	Outer_Full	20.96	18.81	34.77	PASS
N12	15	15	DFT-256QAM	H	Inner_1RB_Left	19.02	16.87	34.77	PASS
N12	15	15	DFT-256QAM	H	Inner_1RB_Right	18.86	16.71	34.77	PASS
N12	15	15	DFT-256QAM	H	Outer_Full	18.99	16.84	34.77	PASS

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Peak-to-Average Ratio for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	DutyCycle	Factor	Result	Limit	Verdict
N12	15	15	DFT-256QAM	L	Outer_Full	100%	0.00	11.15	≤13	PASS
N12	15	15	CP-256QAM	L	Outer_Full	100%	0.00	11.38	≤13	PASS
N12	15	15	DFT-256QAM	M	Outer_Full	100%	0.00	11.06	≤13	PASS
N12	15	15	CP-256QAM	M	Outer_Full	100%	0.00	11.33	≤13	PASS
N12	15	15	DFT-256QAM	H	Outer_Full	100%	0.00	10.94	≤13	PASS
N12	15	15	CP-256QAM	H	Outer_Full	100%	0.00	11.45	≤13	PASS

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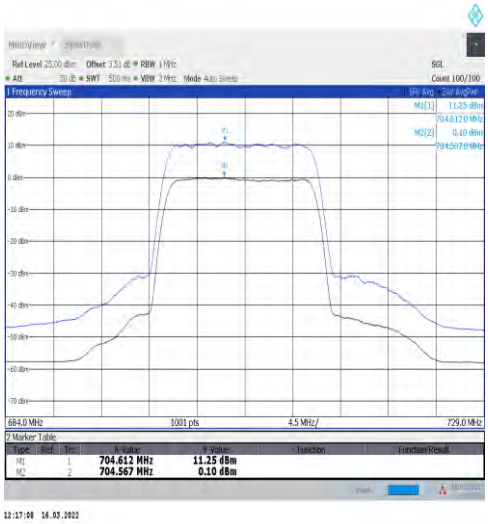
Test Graphs



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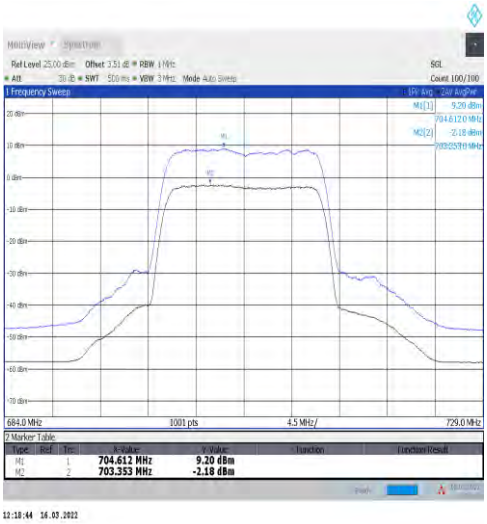

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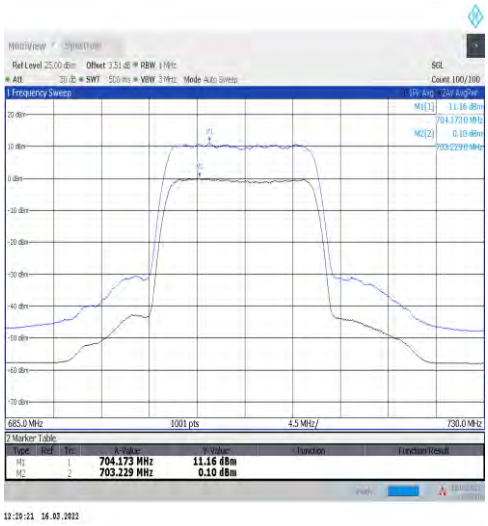

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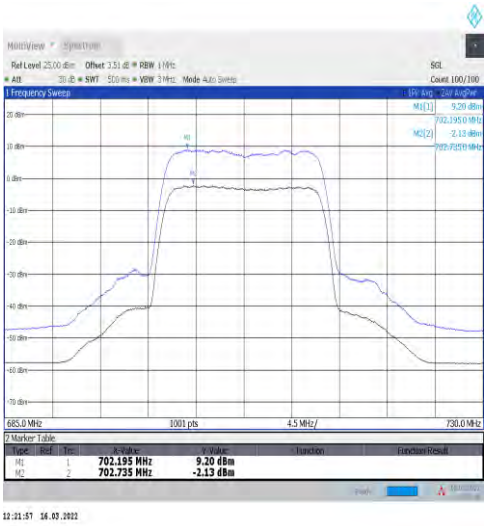

1-N12-15-15-M-2-CP-256QAM-Outer_Full-79@0-Ant1-11.33-100%-0.00-11.33-PASS-≤13

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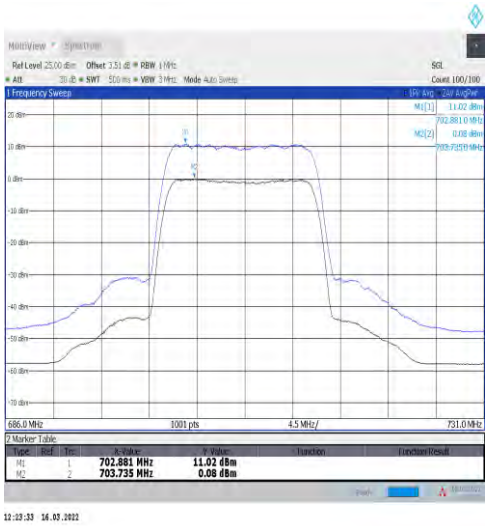	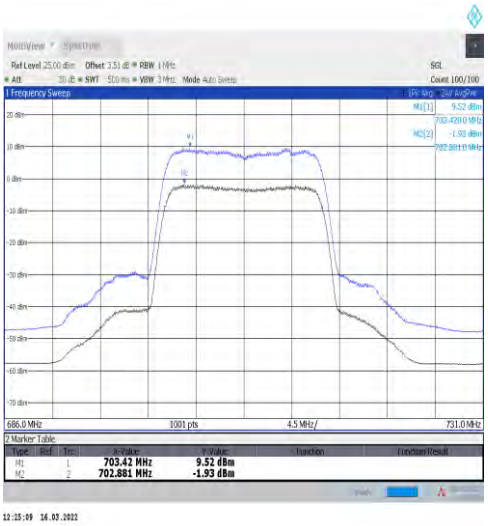
1-N12-15-15-H-1-DFT-256QAM-Outer_Full-75@0-Ant1-10.94-100%-0.00-10.94-PASS-≤13	1-N12-15-15-H-2-CP-256QAM-Outer_Full-79@0-Ant1-11.45-100%-0.00-11.45-PASS-≤13

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Modulation characteristics for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N12	15	15	DFT-PI2BPSK	M	Outer_Full	see graph	PASS
N12	15	15	DFT-QPSK	M	Outer_Full	see graph	PASS
N12	15	15	DFT-16QAM	M	Outer_Full	see graph	PASS
N12	15	15	DFT-64QAM	M	Outer_Full	see graph	PASS
N12	15	15	DFT-256QAM	M	Outer_Full	see graph	PASS
N12	15	15	CP-QPSK	M	Outer_Full	see graph	PASS
N12	15	15	CP-16QAM	M	Outer_Full	see graph	PASS
N12	15	15	CP-64QAM	M	Outer_Full	see graph	PASS
N12	15	15	CP-256QAM	M	Outer_Full	see graph	PASS

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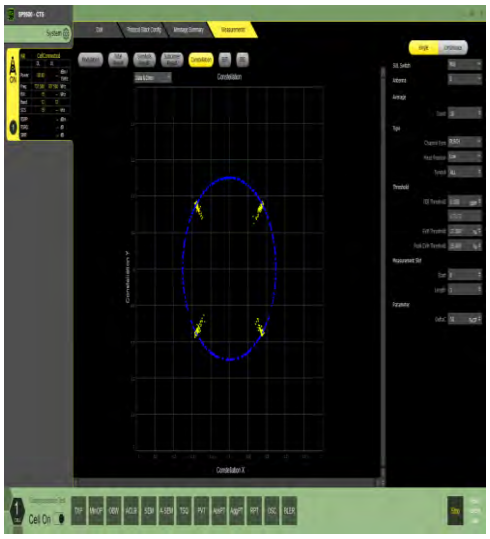
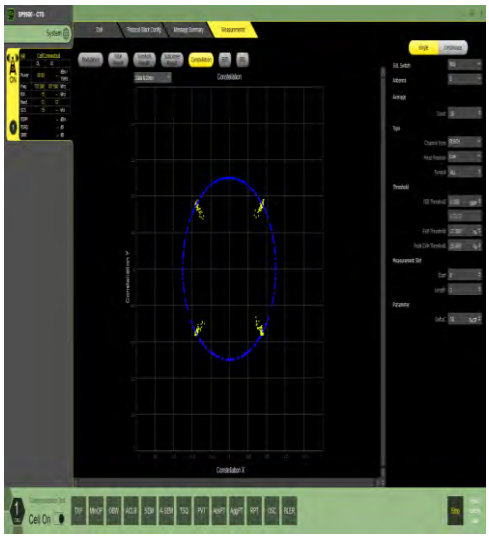
Test Graphs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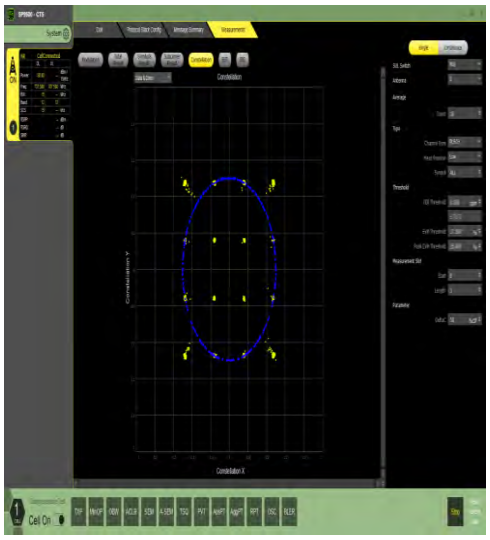	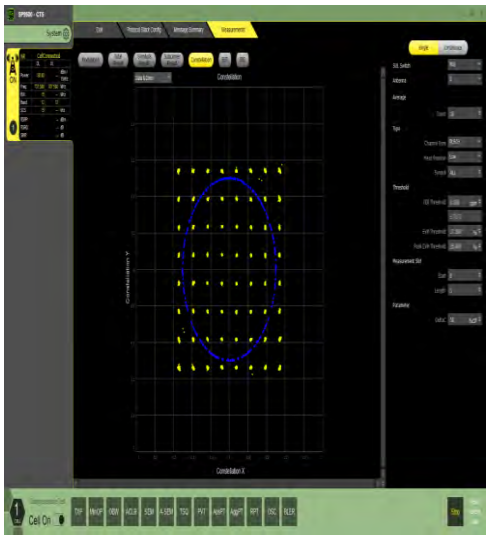
1-N12-15-15-M-3-DFT-16QAM-Outer_Full-75@0-Ant1-see graph-PASS	1-N12-15-15-M-4-DFT-64QAM-Outer_Full-75@0-Ant1-see graph-PASS

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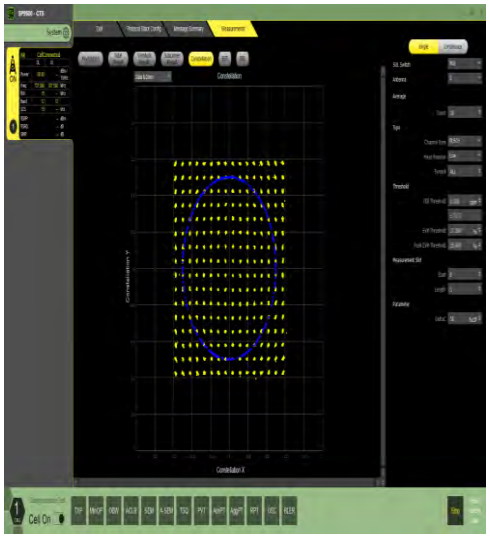	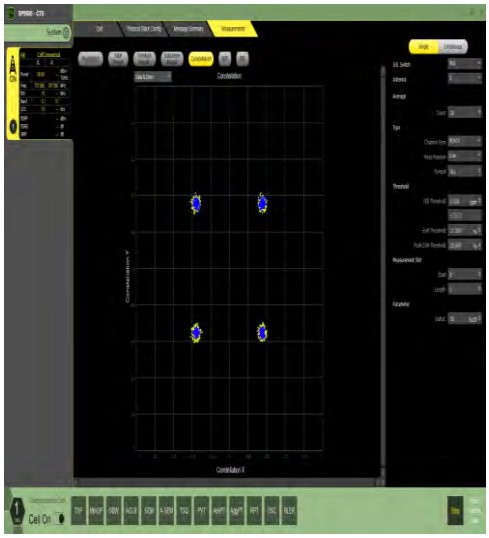
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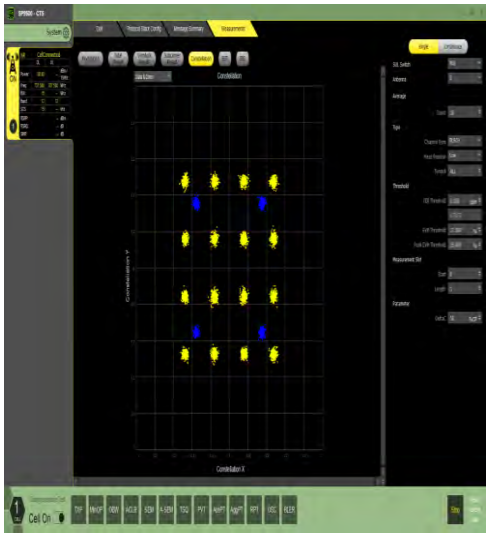	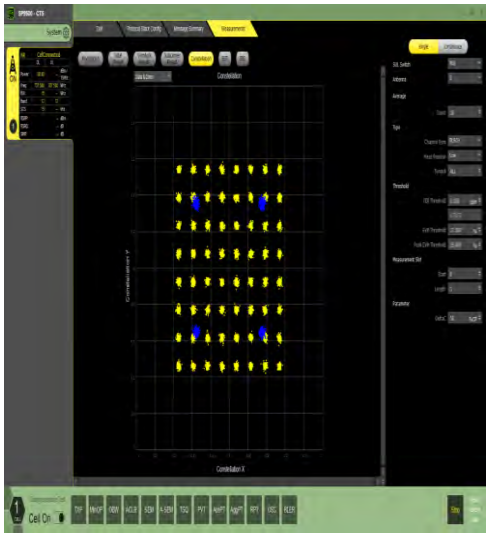
1-N12-15-15-M-7-CP-16QAM-Outer_Full-79@0-Ant1-see graph-PASS	1-N12-15-15-M-8-CP-64QAM-Outer_Full-79@0-Ant1-see graph-PASS

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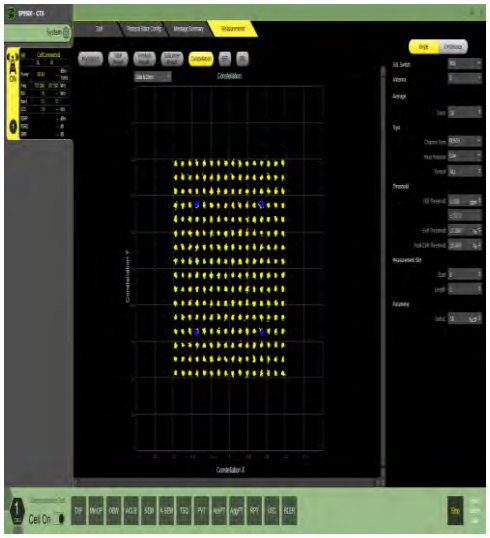	
1-N12-15-15-M-9-CP-256QAM-Outer_Full-79@0-Ant 1-see graph-PASS	

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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
N12	15	5	DFT-QPSK	L	Outer_Full	4.481	5.030	PASS
N12	15	5	DFT-PI2BPSK	L	Outer_Full	4.474	5.080	PASS
N12	15	5	DFT-16QAM	L	Outer_Full	4.458	5.020	PASS
N12	15	5	DFT-64QAM	L	Outer_Full	4.476	4.990	PASS
N12	15	5	DFT-256QAM	L	Outer_Full	4.477	5.020	PASS
N12	15	5	CP-QPSK	L	Outer_Full	4.471	5.100	PASS
N12	15	5	CP-16QAM	L	Outer_Full	4.471	5.010	PASS
N12	15	5	CP-64QAM	L	Outer_Full	4.465	5.080	PASS
N12	15	5	CP-256QAM	L	Outer_Full	4.471	5.030	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	4.485	5.120	PASS
N12	15	5	DFT-PI2BPSK	M	Outer_Full	4.475	5.070	PASS
N12	15	5	DFT-16QAM	M	Outer_Full	4.459	4.980	PASS
N12	15	5	DFT-64QAM	M	Outer_Full	4.482	5.070	PASS
N12	15	5	DFT-256QAM	M	Outer_Full	4.489	5.050	PASS
N12	15	5	CP-QPSK	M	Outer_Full	4.468	5.080	PASS
N12	15	5	CP-16QAM	M	Outer_Full	4.471	5.040	PASS
N12	15	5	CP-64QAM	M	Outer_Full	4.471	5.080	PASS
N12	15	5	CP-256QAM	M	Outer_Full	4.475	5.070	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	4.475	4.980	PASS
N12	15	5	DFT-PI2BPSK	H	Outer_Full	4.466	4.960	PASS
N12	15	5	DFT-16QAM	H	Outer_Full	4.455	5.020	PASS
N12	15	5	DFT-64QAM	H	Outer_Full	4.48	5.030	PASS
N12	15	5	DFT-256QAM	H	Outer_Full	4.49	5.020	PASS
N12	15	5	CP-QPSK	H	Outer_Full	4.475	5.080	PASS
N12	15	5	CP-16QAM	H	Outer_Full	4.473	4.980	PASS
N12	15	5	CP-64QAM	H	Outer_Full	4.467	5.110	PASS
N12	15	5	CP-256QAM	H	Outer_Full	4.467	5.110	PASS
N12	15	10	DFT-QPSK	L	Outer_Full	8.901	9.560	PASS
N12	15	10	DFT-PI2BPSK	L	Outer_Full	8.896	9.680	PASS
N12	15	10	DFT-16QAM	L	Outer_Full	8.938	9.740	PASS
N12	15	10	DFT-64QAM	L	Outer_Full	8.921	9.680	PASS
N12	15	10	DFT-256QAM	L	Outer_Full	8.894	9.540	PASS

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N12	15	10	CP-QPSK	L	Outer_Full	9.279	10.020	PASS
N12	15	10	CP-16QAM	L	Outer_Full	9.263	10.100	PASS
N12	15	10	CP-64QAM	L	Outer_Full	9.274	10.000	PASS
N12	15	10	CP-256QAM	L	Outer_Full	9.263	9.980	PASS
N12	15	10	DFT-QPSK	M	Outer_Full	8.927	9.660	PASS
N12	15	10	DFT-PI2BPSK	M	Outer_Full	8.912	9.660	PASS
N12	15	10	DFT-16QAM	M	Outer_Full	8.947	9.720	PASS
N12	15	10	DFT-64QAM	M	Outer_Full	8.938	9.620	PASS
N12	15	10	DFT-256QAM	M	Outer_Full	8.918	9.680	PASS
N12	15	10	CP-QPSK	M	Outer_Full	9.304	10.140	PASS
N12	15	10	CP-16QAM	M	Outer_Full	9.292	10.160	PASS
N12	15	10	CP-64QAM	M	Outer_Full	9.299	10.120	PASS
N12	15	10	CP-256QAM	M	Outer_Full	9.292	10.040	PASS
N12	15	10	DFT-QPSK	H	Outer_Full	8.926	9.760	PASS
N12	15	10	DFT-PI2BPSK	H	Outer_Full	8.909	9.640	PASS
N12	15	10	DFT-16QAM	H	Outer_Full	8.936	9.680	PASS
N12	15	10	DFT-64QAM	H	Outer_Full	8.921	9.520	PASS
N12	15	10	DFT-256QAM	H	Outer_Full	8.913	9.620	PASS
N12	15	10	CP-QPSK	H	Outer_Full	9.289	10.080	PASS
N12	15	10	CP-16QAM	H	Outer_Full	9.28	10.060	PASS
N12	15	10	CP-64QAM	H	Outer_Full	9.32	10.200	PASS
N12	15	10	CP-256QAM	H	Outer_Full	9.278	9.940	PASS
N12	15	15	DFT-QPSK	L	Outer_Full	13.446	14.490	PASS
N12	15	15	DFT-PI2BPSK	L	Outer_Full	13.409	14.460	PASS
N12	15	15	DFT-16QAM	L	Outer_Full	13.417	14.370	PASS
N12	15	15	DFT-64QAM	L	Outer_Full	13.406	14.490	PASS
N12	15	15	DFT-256QAM	L	Outer_Full	13.457	14.490	PASS
N12	15	15	CP-QPSK	L	Outer_Full	14.116	15.150	PASS
N12	15	15	CP-16QAM	L	Outer_Full	14.086	15.180	PASS
N12	15	15	CP-64QAM	L	Outer_Full	14.069	15.150	PASS
N12	15	15	CP-256QAM	L	Outer_Full	14.106	15.240	PASS
N12	15	15	DFT-QPSK	M	Outer_Full	13.443	14.340	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	13.414	14.490	PASS
N12	15	15	DFT-16QAM	M	Outer_Full	13.426	14.490	PASS
N12	15	15	DFT-64QAM	M	Outer_Full	13.41	14.400	PASS
N12	15	15	DFT-256QAM	M	Outer_Full	13.45	14.490	PASS
N12	15	15	CP-QPSK	M	Outer_Full	14.129	15.210	PASS
N12	15	15	CP-16QAM	M	Outer_Full	14.084	15.210	PASS

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N12	15	15	CP-64QAM	M	Outer_Full	14.077	15.060	PASS
N12	15	15	CP-256QAM	M	Outer_Full	14.099	15.210	PASS
N12	15	15	DFT-QPSK	H	Outer_Full	13.451	14.400	PASS
N12	15	15	DFT-PI2BPSK	H	Outer_Full	13.403	14.460	PASS
N12	15	15	DFT-16QAM	H	Outer_Full	13.416	14.400	PASS
N12	15	15	DFT-64QAM	H	Outer_Full	13.422	14.460	PASS
N12	15	15	DFT-256QAM	H	Outer_Full	13.455	14.460	PASS
N12	15	15	CP-QPSK	H	Outer_Full	14.123	15.210	PASS
N12	15	15	CP-16QAM	H	Outer_Full	14.066	15.120	PASS
N12	15	15	CP-64QAM	H	Outer_Full	14.067	15.120	PASS
N12	15	15	CP-256QAM	H	Outer_Full	14.094	15.150	PASS

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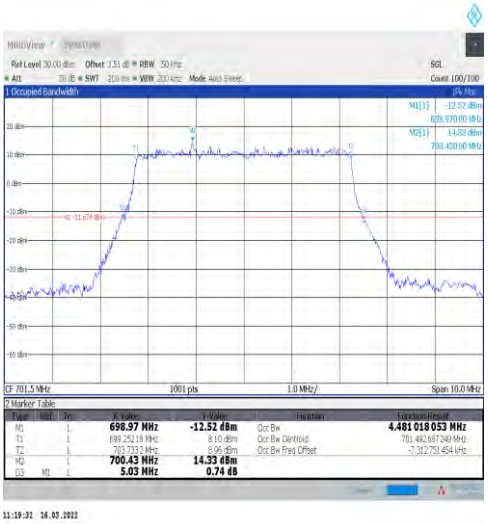
Test Graphs



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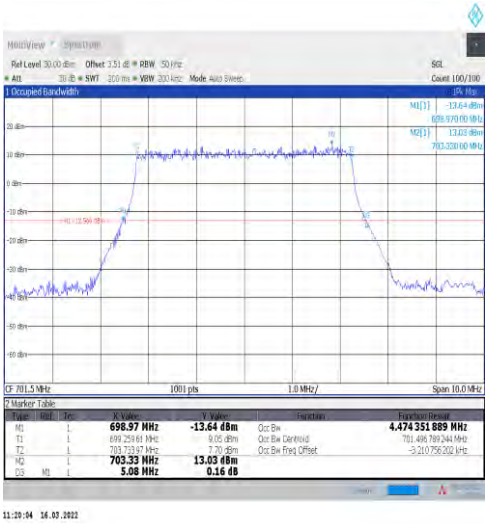

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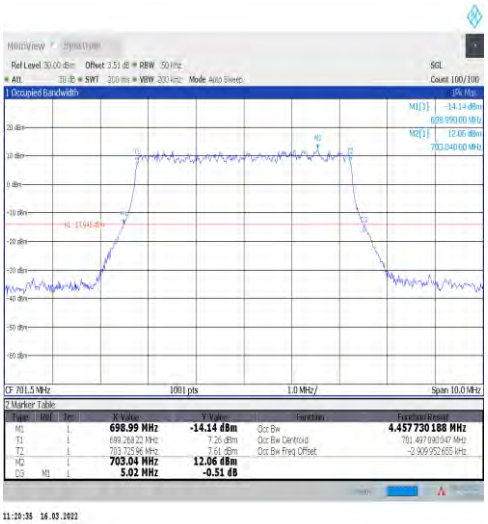

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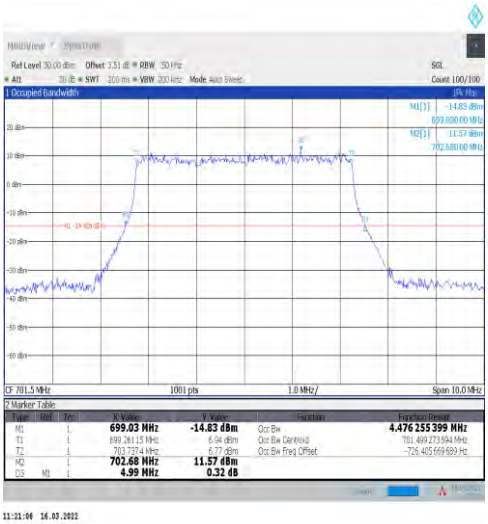

1-N12-15-5-L-4-DFT-64QAM-Outer_Full-25@0-Ant1-4.476-4.990-≤5-PASS

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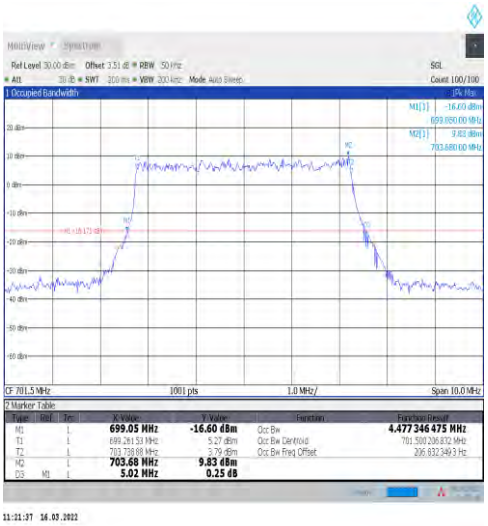

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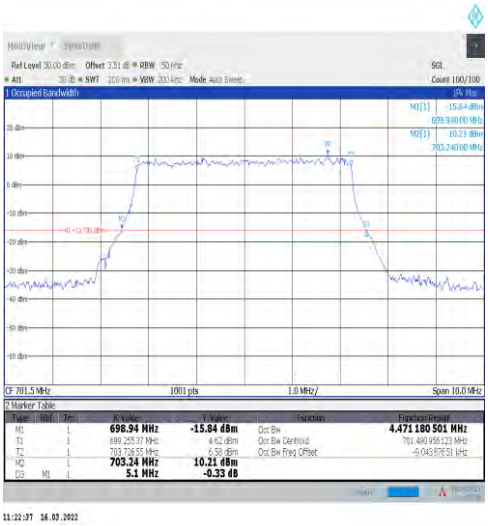

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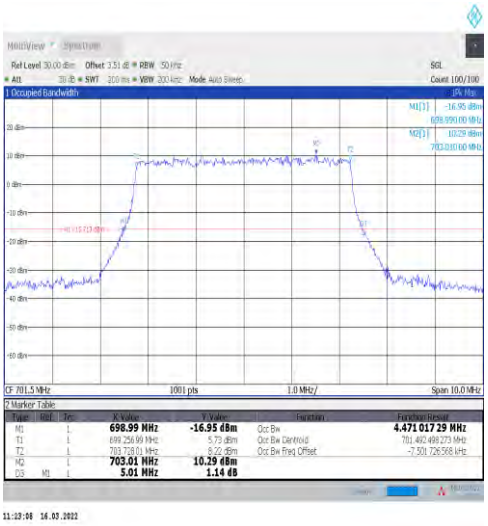

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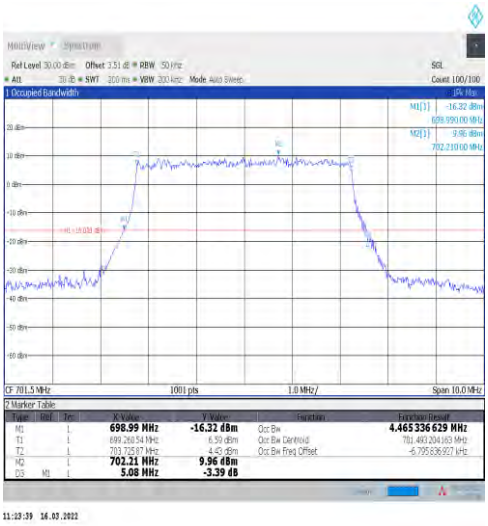

1-N12-15-5-L-8-CP-64QAM-Outer_Full-25@0-Ant1-4.465-5.080-≤5-PASS

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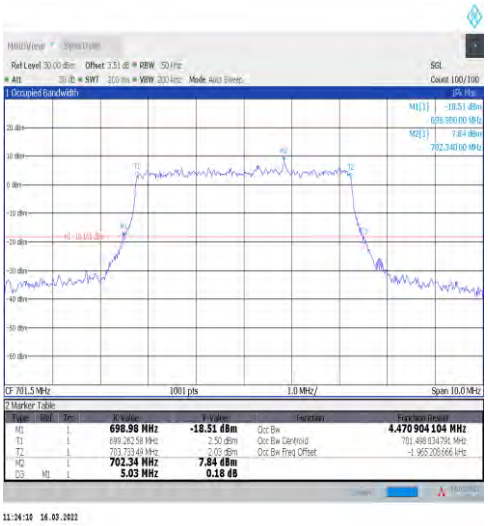

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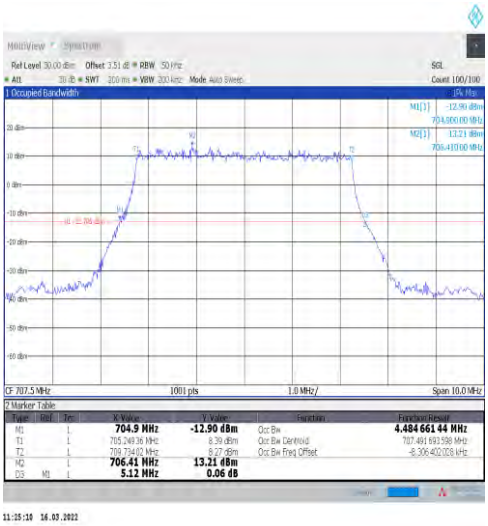

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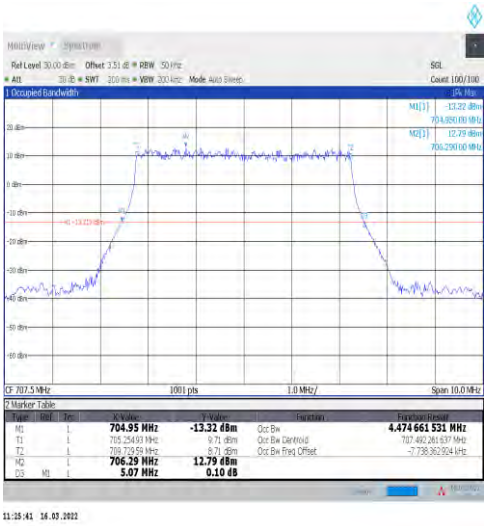
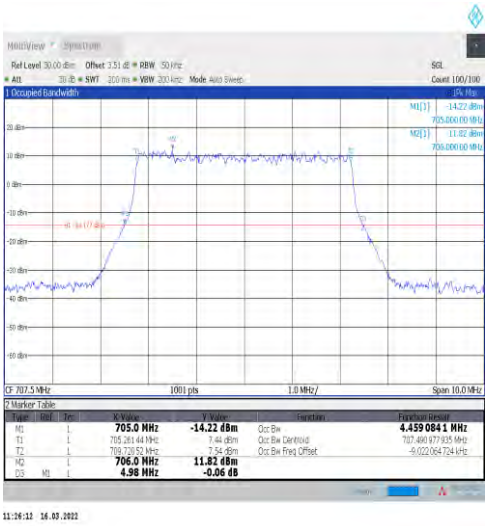


1-N12-15-5-M-2-DFT-PI2BPSK-Outer_Full-25@0-Ant1-4.475-5.070-≤5-PASS



1-N12-15-5-M-3-DFT-16QAM-Outer_Full-25@0-Ant1-4.459-4.980-≤5-PASS

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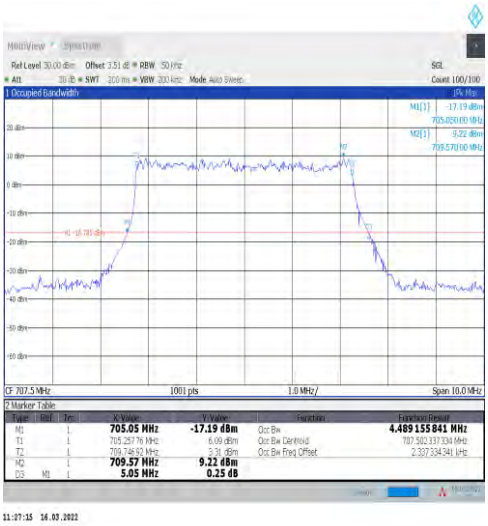
1-N12-15-5-M-4-DFT-64QAM-Outer_Full-25@0-Ant1-4.482-5.070-≤5-PASS



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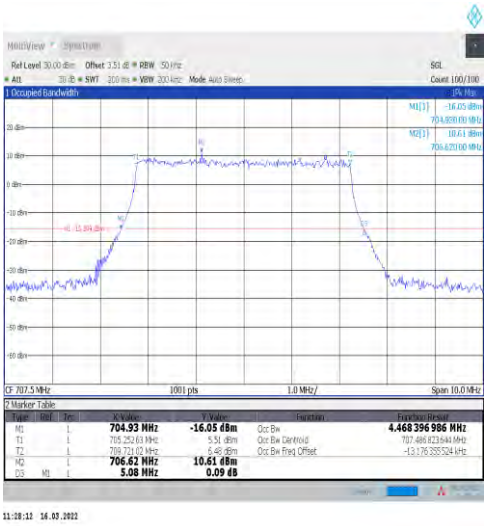

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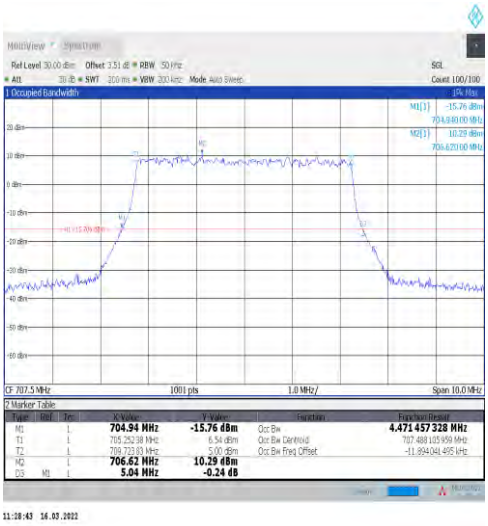

1-N12-15-5-M-7-CP-16QAM-Outer_Full-25@0-Ant1-4.471-5.040-≤5-PASS

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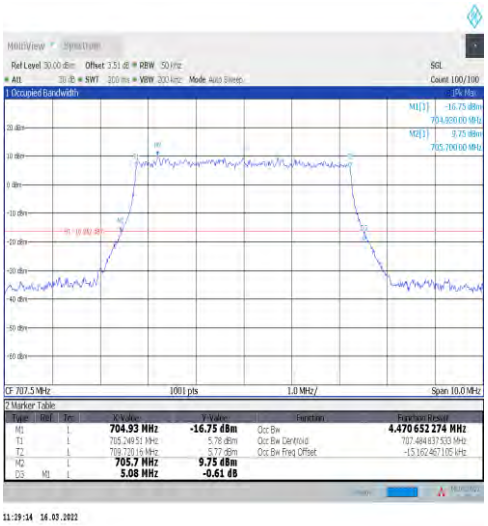

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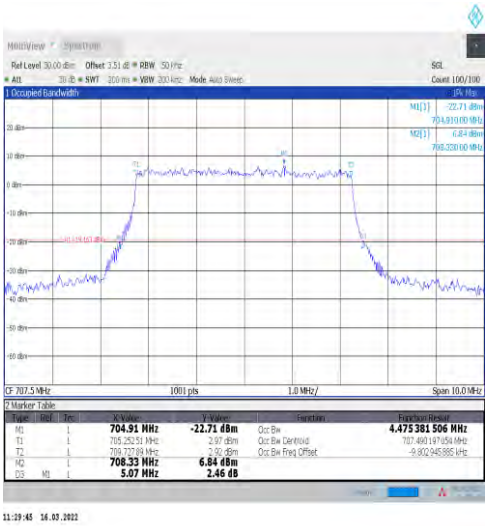

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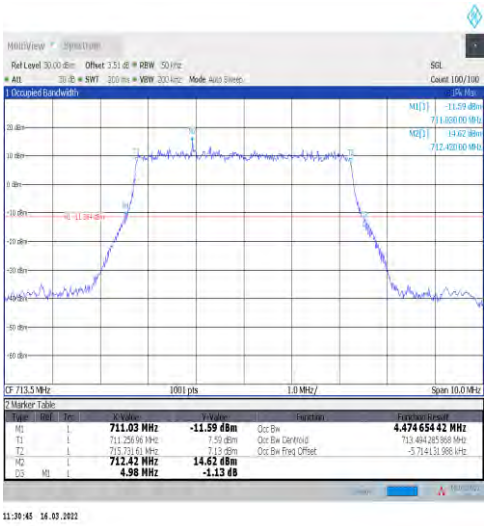

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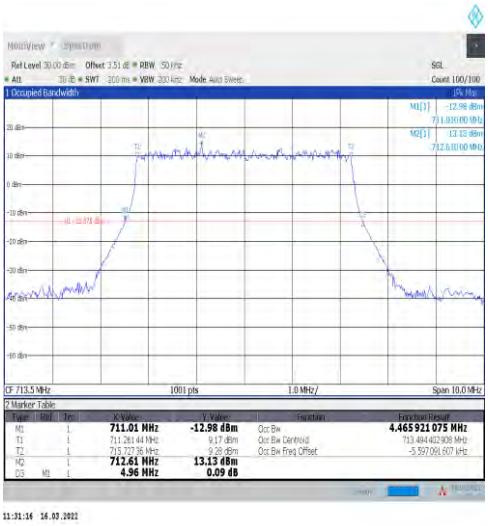

1-N12-15-5-H-2-DFT-PI2BPSK-Outer_Full-25@0-Ant1-4.466-4.960-≤5-PASS

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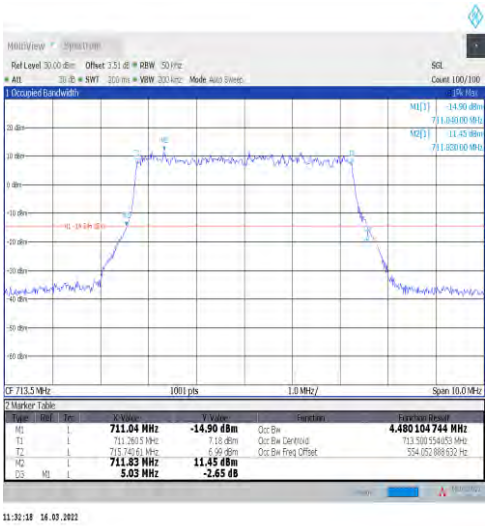

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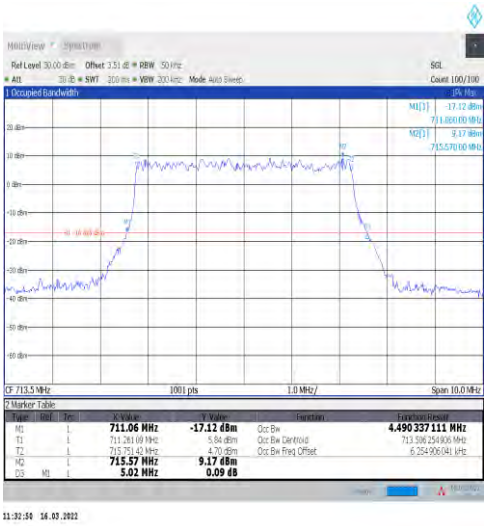

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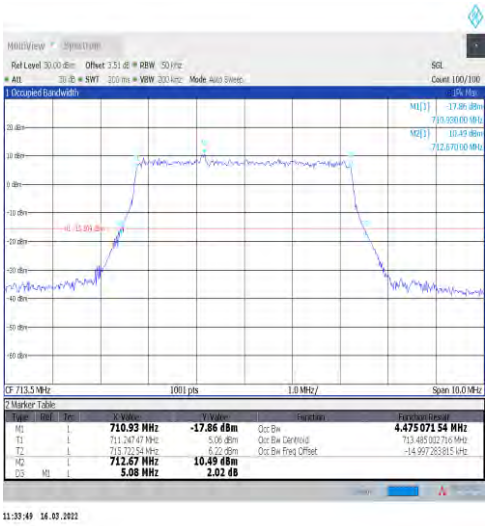

1-N12-15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-4.475-5.080-≤5-PASS

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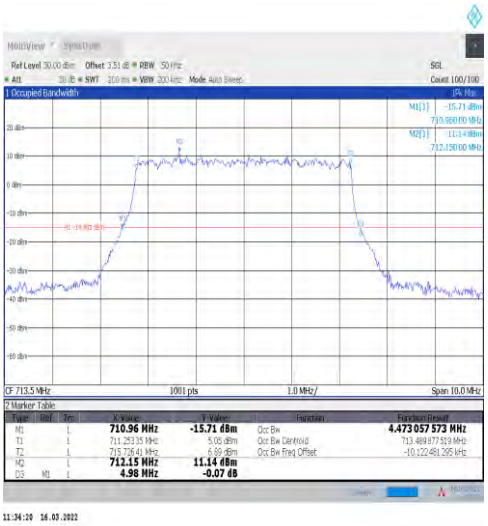

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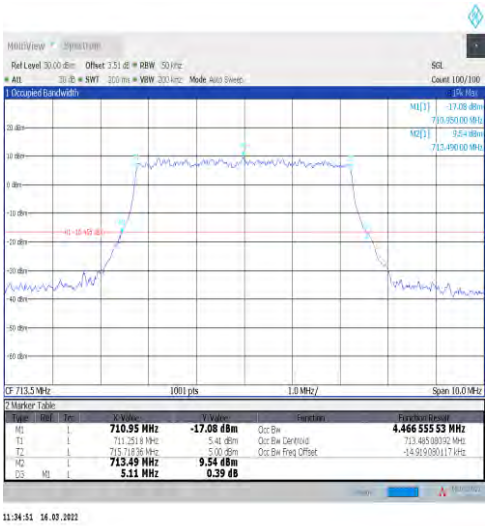
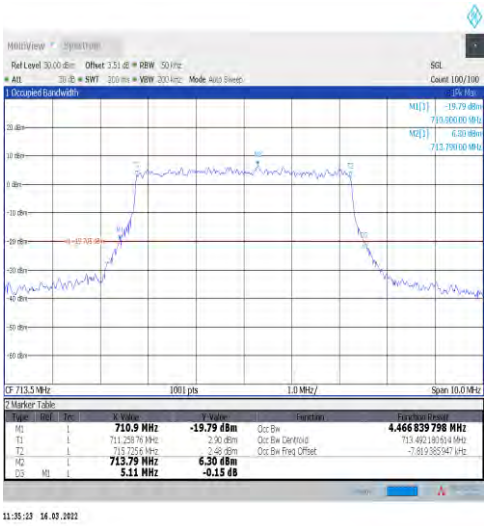


1-N12-15-5-H-8-CP-64QAM-Outer_Full-25@0-Ant1-4.467-5.110-≤5-PASS



1-N12-15-5-H-9-CP-256QAM-Outer_Full-25@0-Ant1-4.467-5.110-≤5-PASS

1-N12-15-10-L-1-DFT-QPSK-Outer_Full-50@0-Ant1-8.901-9.560-≤10-PASS

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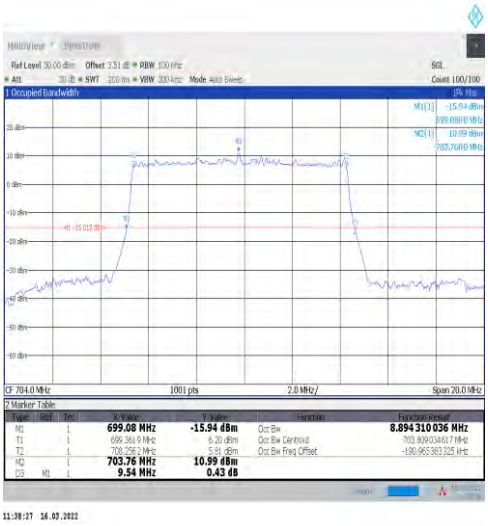
1-N12-15-10-L-2-DFT-PI2BPSK-Outer_Full-50@0-Ant1-8.896-9.680-≤10-PASS

1-N12-15-10-L-3-DFT-16QAM-Outer_Full-50@0-Ant1-8.938-9.740-≤10-PASS

1-N12-15-10-L-4-DFT-64QAM-Outer_Full-50@0-Ant1-8.921-9.680-≤10-PASS



1-N12-15-10-L-5-DFT-256QAM-Outer_Full-50@0-Ant1-8.894-9.540-≤10-PASS

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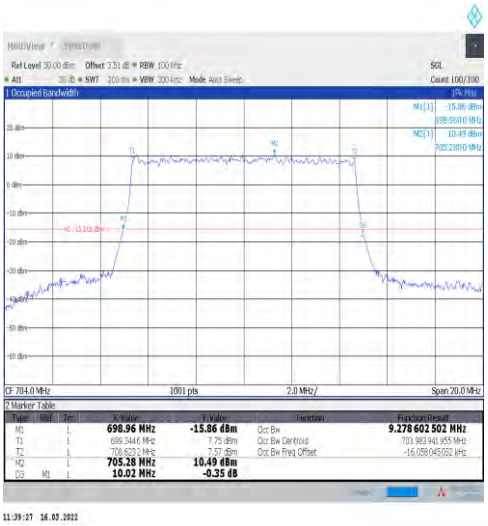
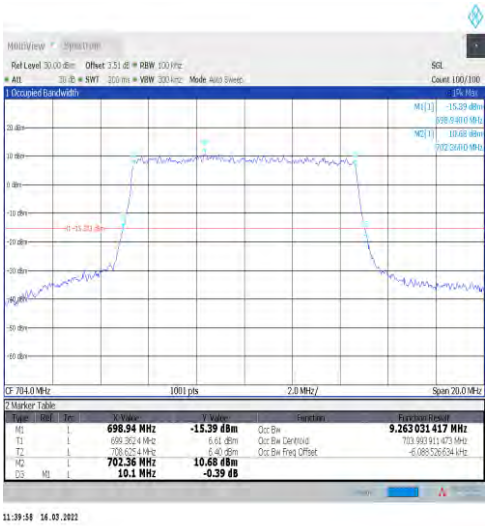


1-N12-15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant1-9.279-10.020-≤10-PASS



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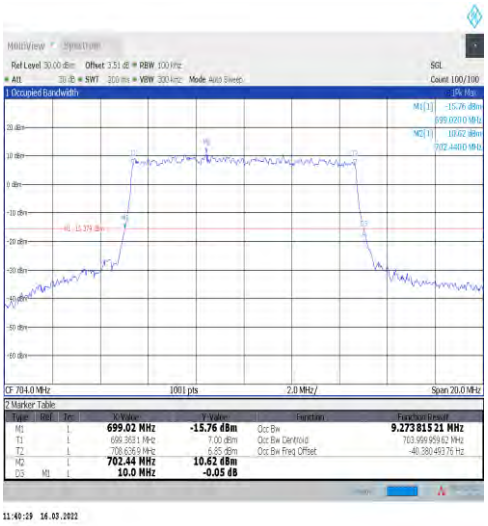

1-N12-15-10-L-8-CP-64QAM-Outer_Full-52@0-Ant1-9.274-10.000-≤10-PASS

1-N12-15-10-L-9-CP-256QAM-Outer_Full-52@0-Ant1-9.263-9.980-≤10-PASS

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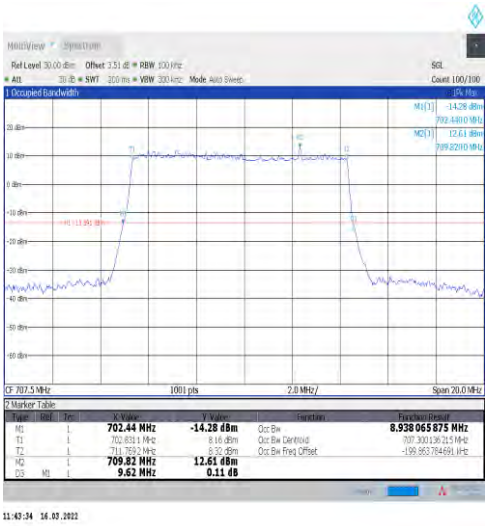
1-N12-15-10-M-1-DFT-QPSK-Outer_Full-50@0-Ant1-8.927-9.660-≤10-PASS

1-N12-15-10-M-2-DFT-PI2BPSK-Outer_Full-50@0-Ant1-8.912-9.660-≤10-PASS

1-N12-15-10-M-3-DFT-16QAM-Outer_Full-50@0-Ant1-8.947-9.720-≤10-PASS



1-N12-15-10-M-4-DFT-64QAM-Outer_Full-50@0-Ant1-8.938-9.620-≤10-PASS

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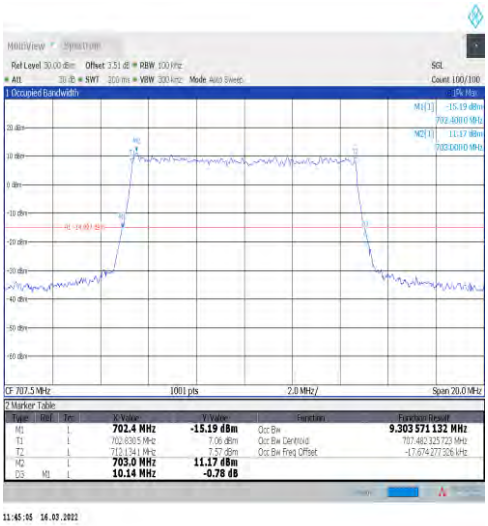
1-N12-15-10-M-5-DFT-256QAM-Outer_Full-50@0-Ant1-8.918-9.680-≤10-PASS



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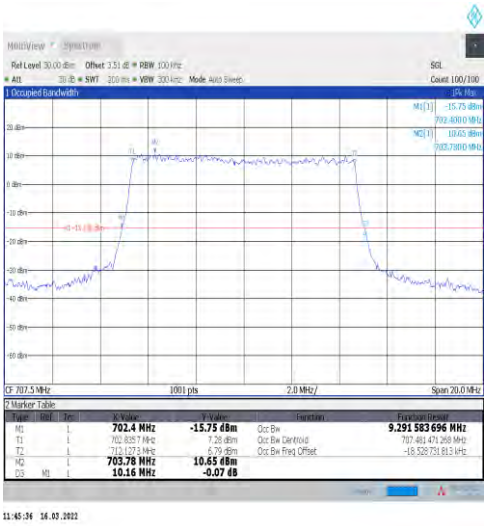
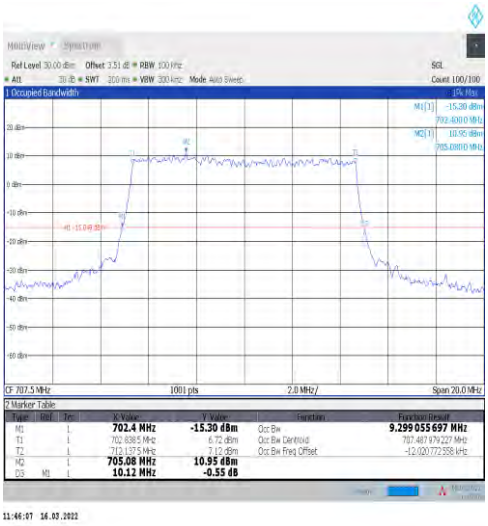


1-N12-15-10-M-7-CP-16QAM-Outer_Full-52@0-Ant1-9.292-10.160-≤10-PASS



1-N12-15-10-M-8-CP-64QAM-Outer_Full-52@0-Ant1-9.299-10.120-≤10-PASS

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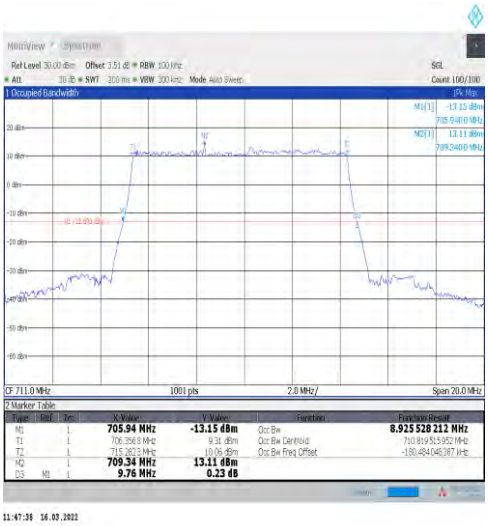
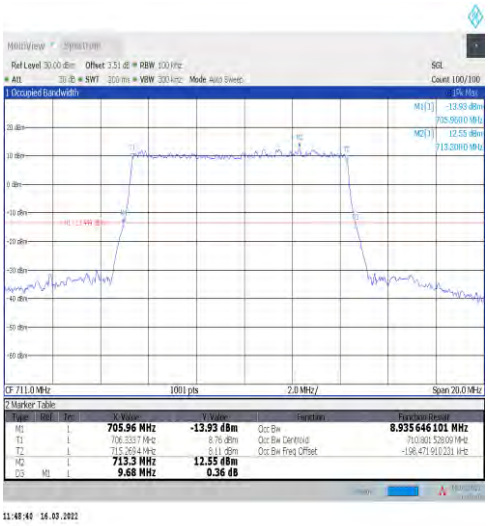


1-N12-15-10-H-1-DFT-QPSK-Outer_Full-50@0-Ant1-8.926-9.760-≤10-PASS

1-N12-15-10-H-2-DFT-PI2BPSK-Outer_Full-50@0-Ant1-8.909-9.640-≤10-PASS



1-N12-15-10-H-3-DFT-16QAM-Outer_Full-50@0-Ant1-8.936-9.680-≤10-PASS

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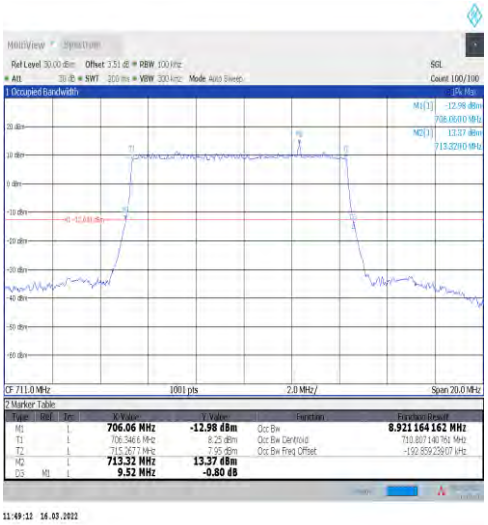

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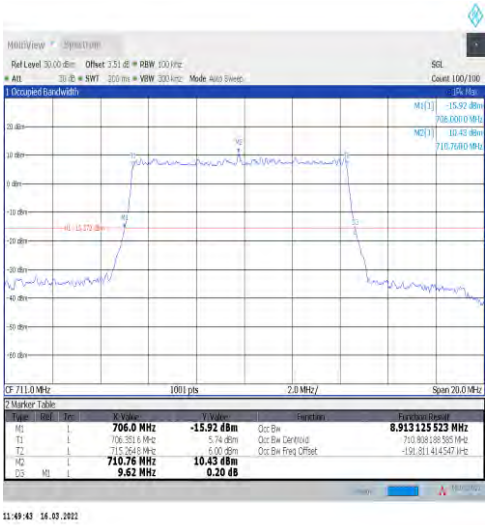

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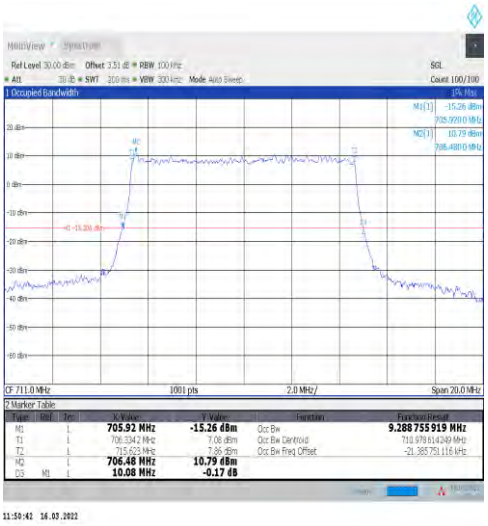

1-N12-15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant1-9.289-10.080-≤10-PASS

1-N12-15-10-H-7-CP-16QAM-Outer_Full-52@0-Ant1-9.28-10.060-≤10-PASS

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1-N12-15-10-H-9-CP-256QAM-Outer_Full-52@0-Ant1-9.278-9.940-≤10-PASS

1-N12-15-15-L-1-DFT-QPSK-Outer_Full-75@0-Ant1-13.446-14.490-≤15-PASS

1-N12-15-15-L-2-DFT-PI2BPSK-Outer_Full-75@0-Ant1-13.409-14.460-≤15-PASS

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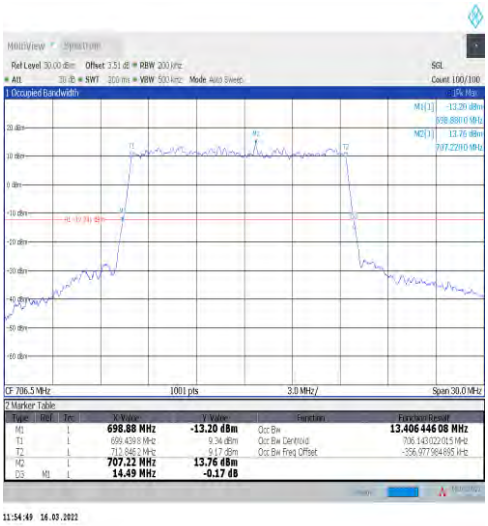
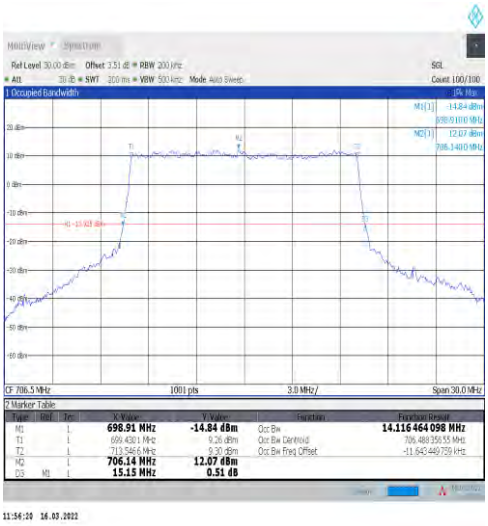
1-N12-15-15-L-3-DFT-16QAM-Outer_Full-75@0-Ant1-13.417-14.370-≤15-PASS



1-N12-15-15-L-4-DFT-64QAM-Outer_Full-75@0-Ant1-13.406-14.490-≤15-PASS

1-N12-15-15-L-5-DFT-256QAM-Outer_Full-75@0-Ant1-13.457-14.490-≤15-PASS



1-N12-15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant1-14.116-15.150-≤15-PASS

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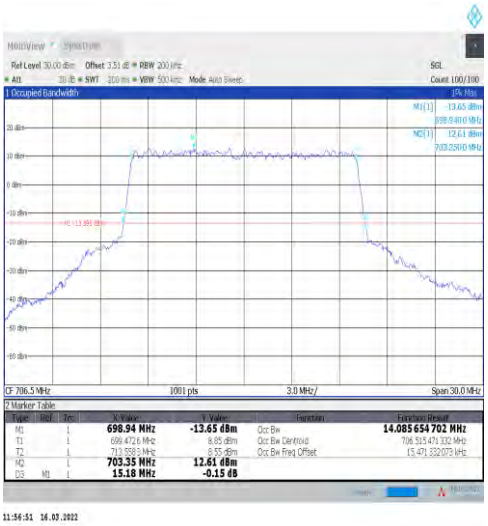

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1-N12-15-15-L-8-CP-64QAM-Outer_Full-79@0-Ant1-14.069-15.150-≤15-PASS

1-N12-15-15-L-9-CP-256QAM-Outer_Full-79@0-Ant1-14.106-15.240-≤15-PASS

1-N12-15-15-M-1-DFT-QPSK-Outer_Full-75@0-Ant1-13.443-14.340-≤15-PASS

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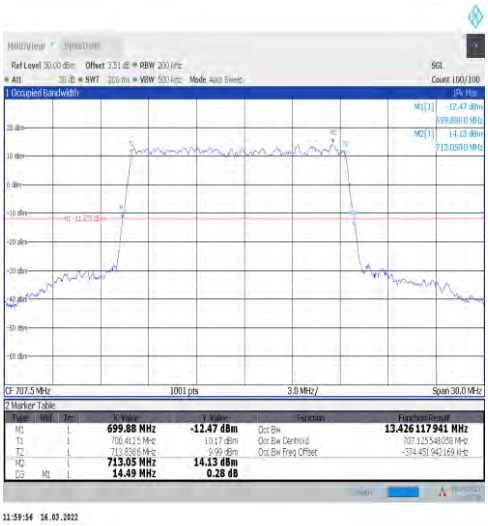

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1-N12-15-15-M-4-DFT-64QAM-Outer_Full-75@0-Ant1-13.41-14.400-≤15-PASS

1-N12-15-15-M-5-DFT-256QAM-Outer_Full-75@0-Ant1-13.45-14.490-≤15-PASS

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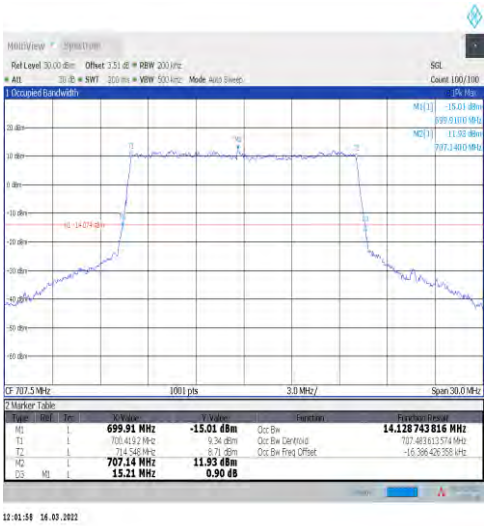

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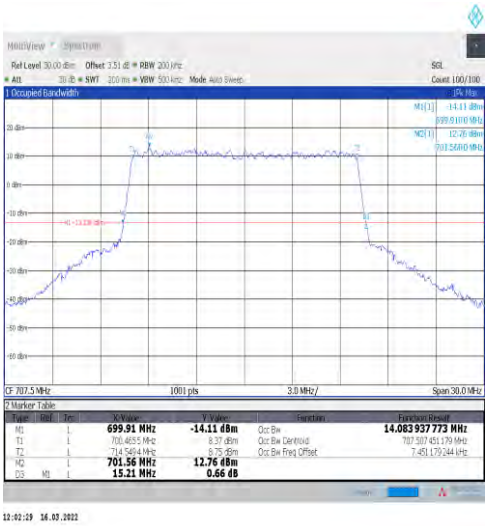

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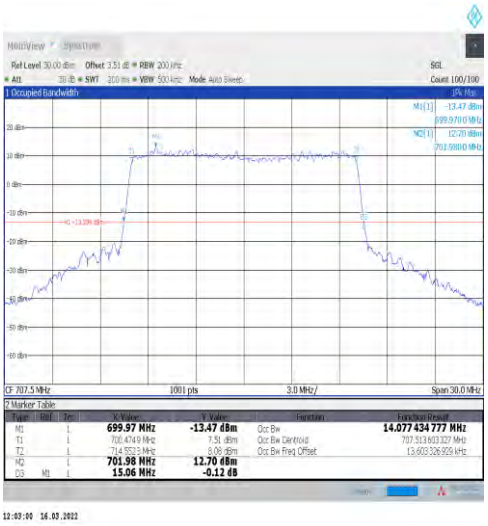

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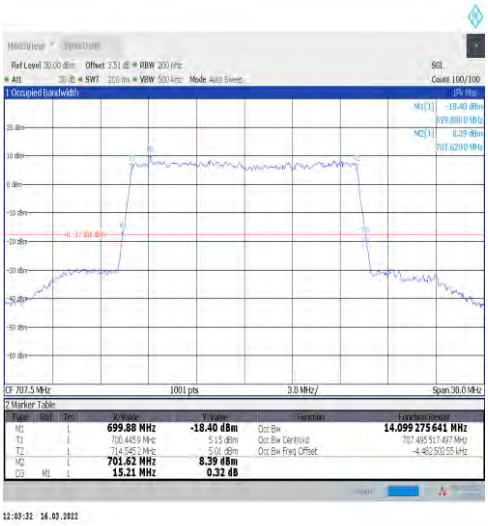

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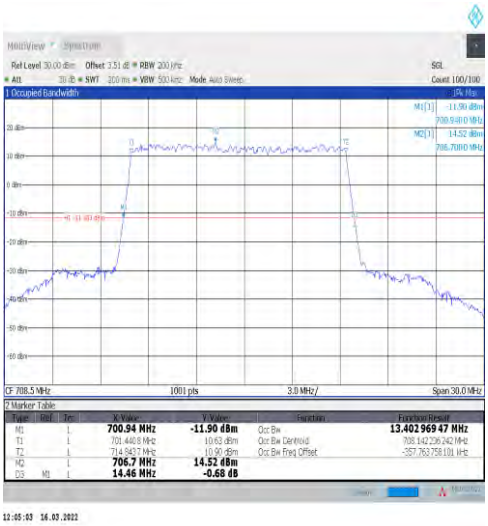
1-N12-15-15-H-1-DFT-QPSK-Outer_Full-75@0-Ant1-13.451-14.400-≤15-PASS



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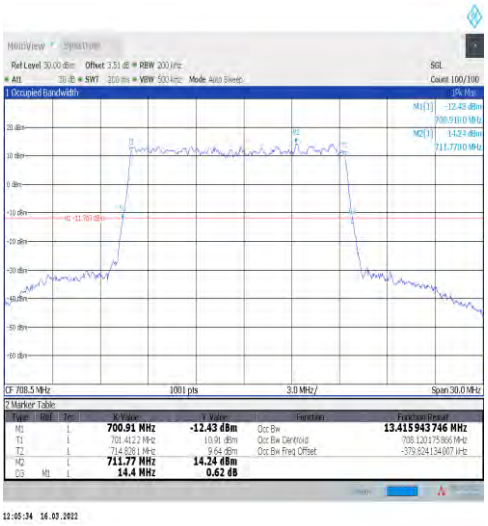

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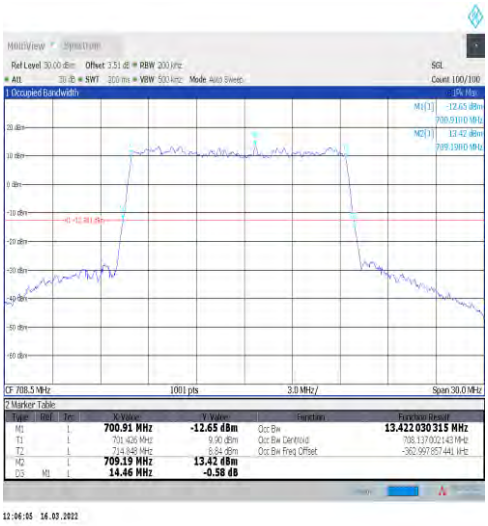

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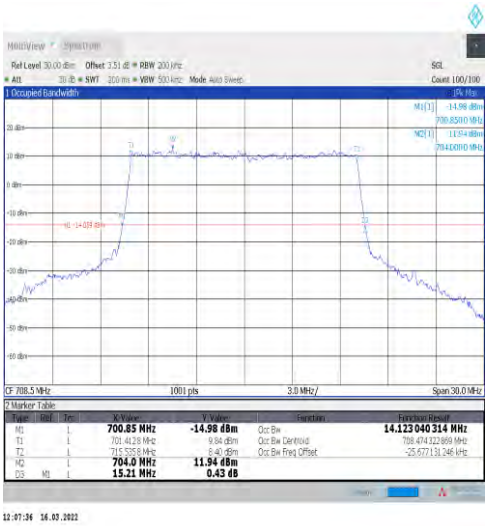

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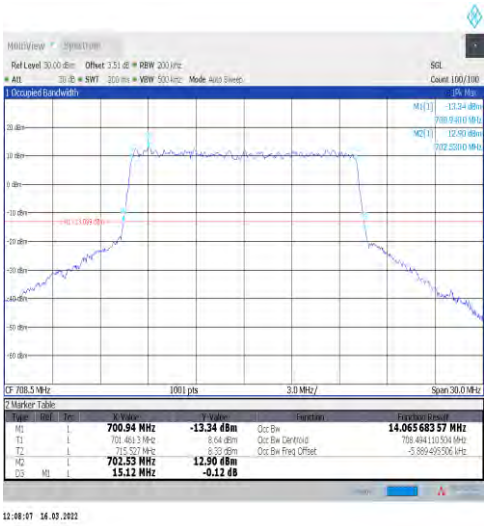

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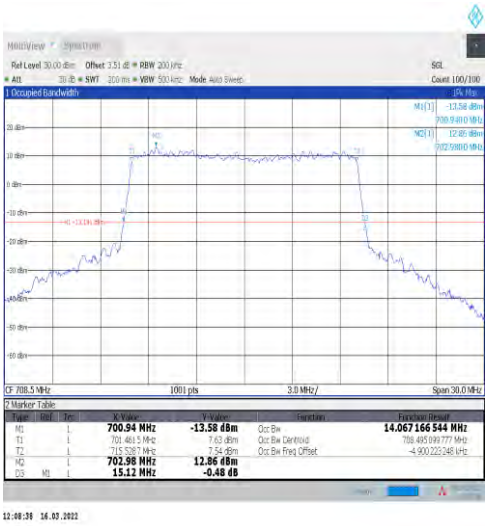

1-N12-15-15-H-8-CP-64QAM-Outer_Full-79@0-Ant1-14.067-15.120-≤15-PASS

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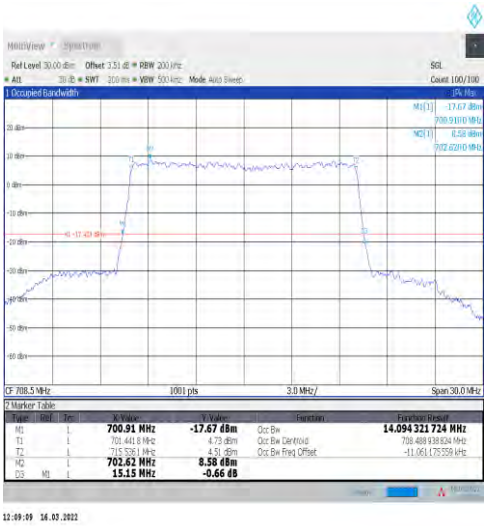	
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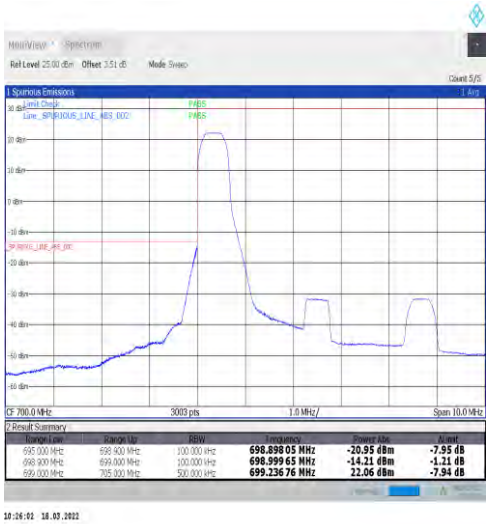
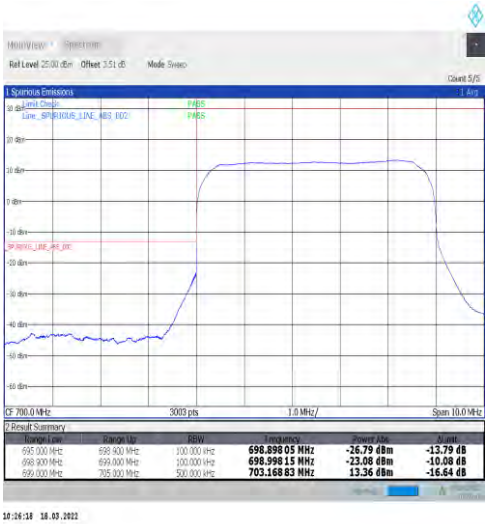
Band Edge for SA

Test Graphs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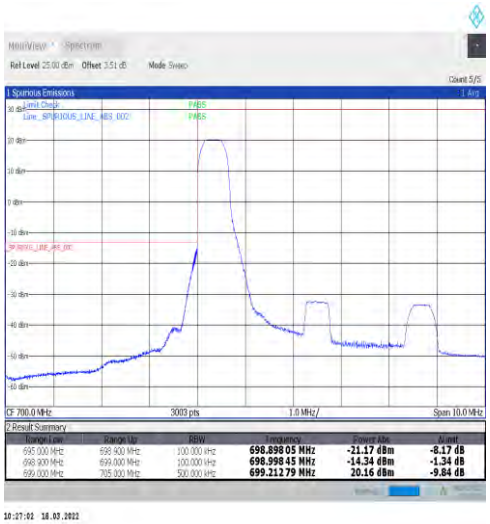	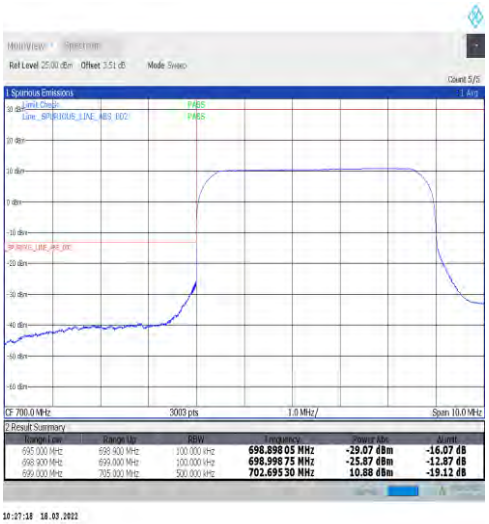
1-N12-15-5-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph	1-N12-15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant1-PASS-see graph

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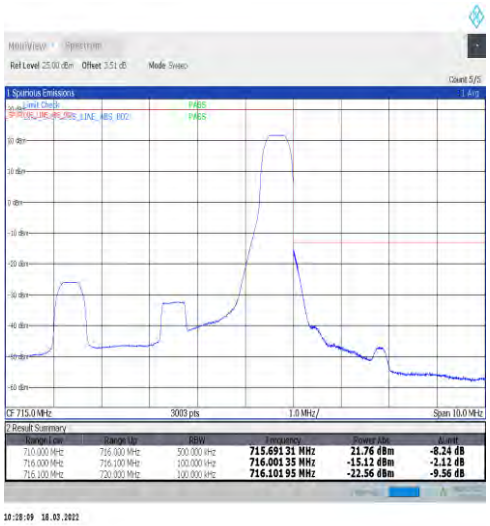

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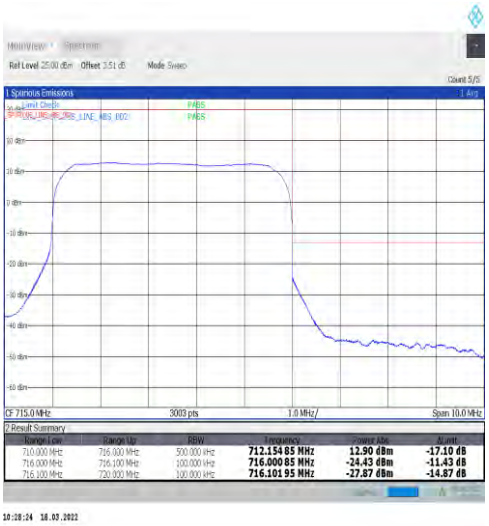

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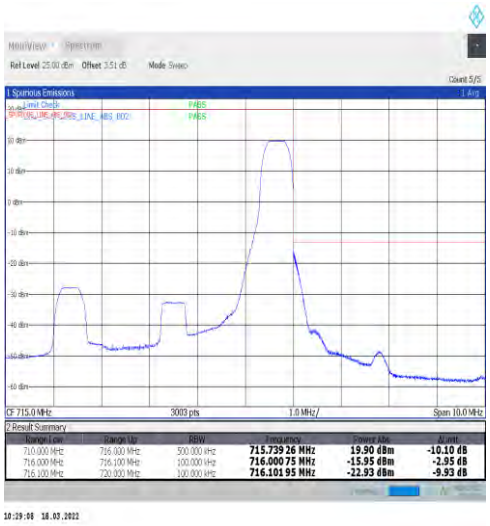

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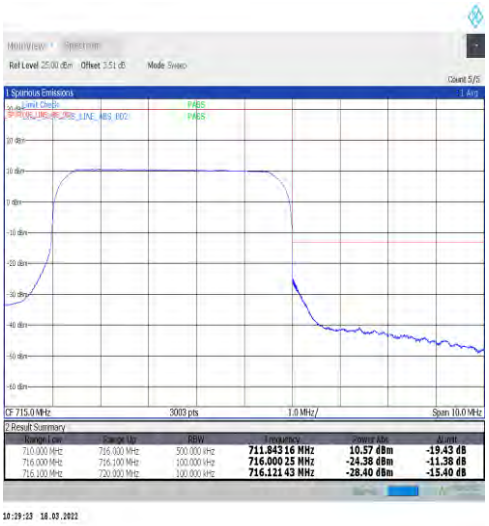

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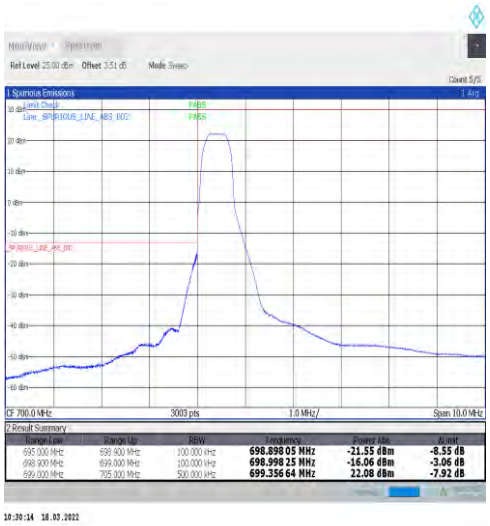

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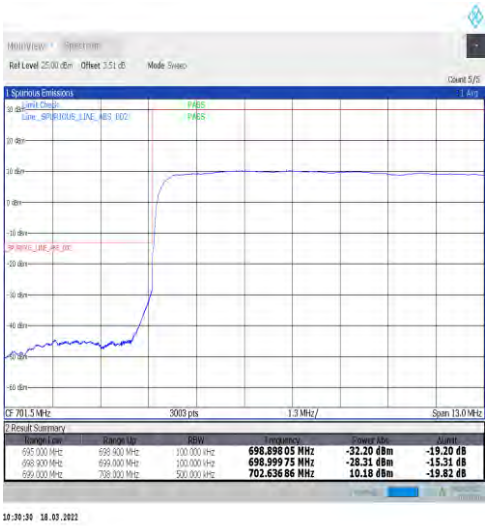

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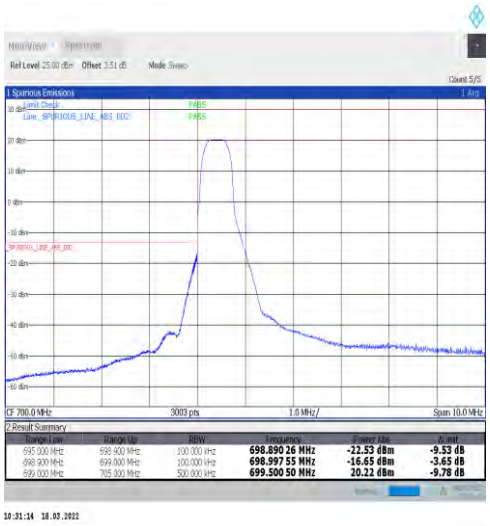

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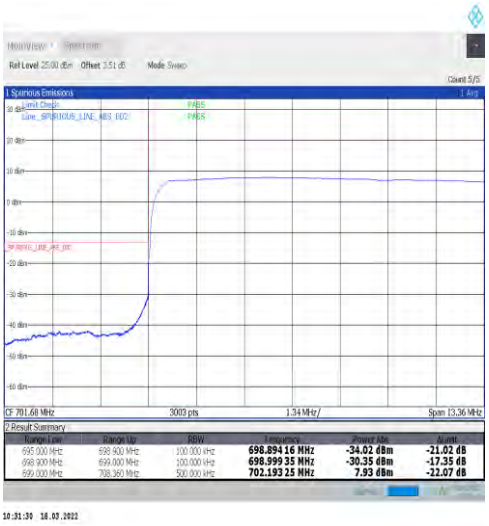

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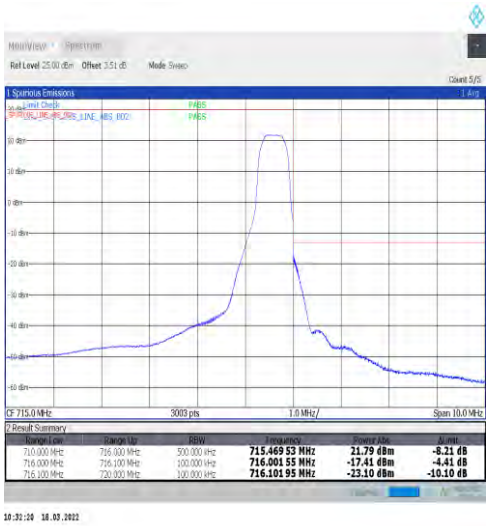

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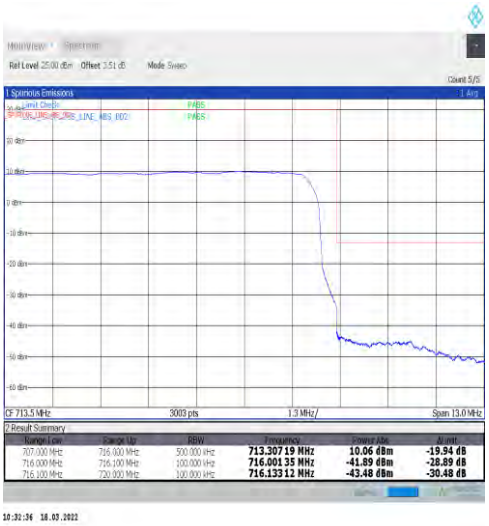

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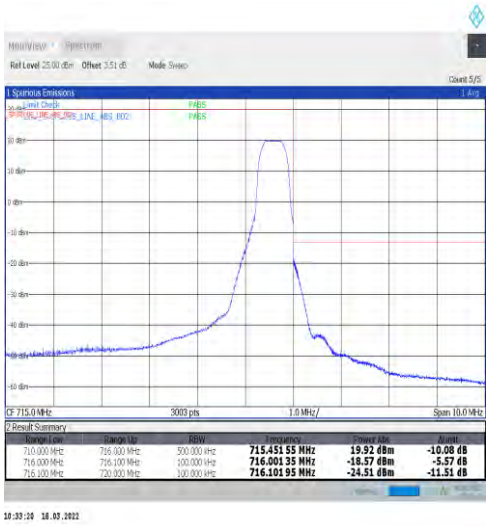

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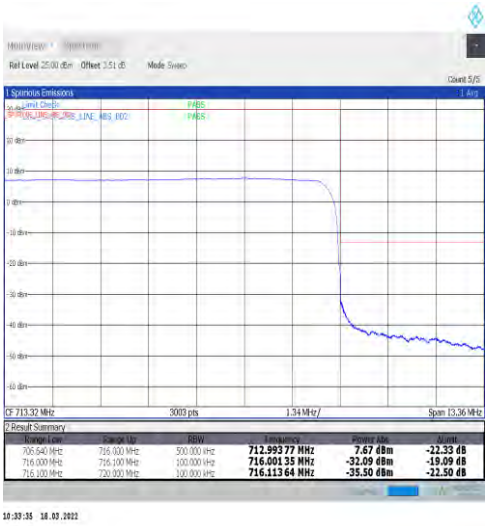

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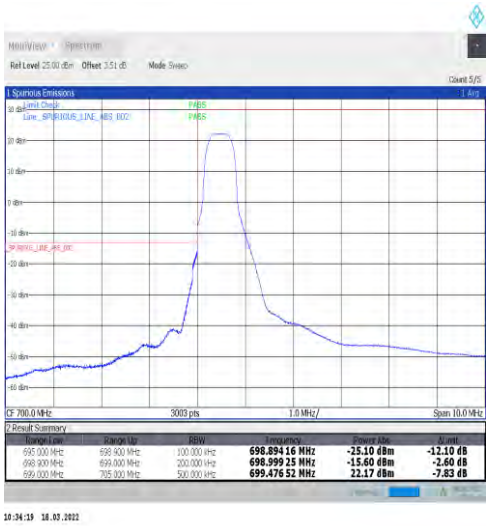

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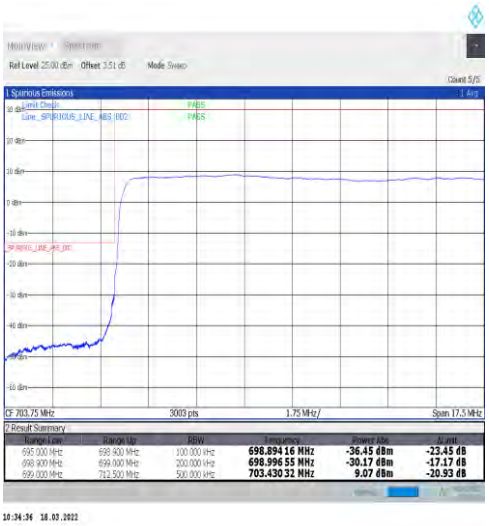

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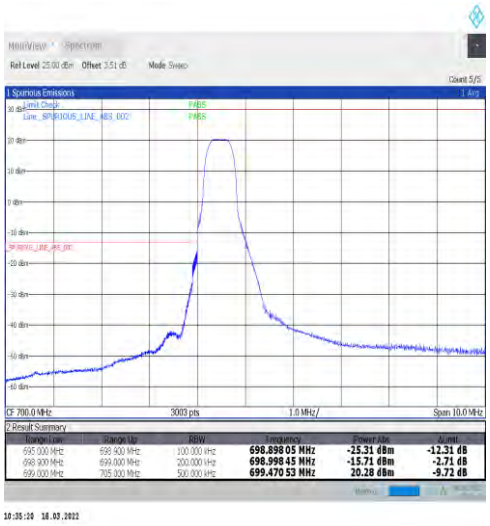

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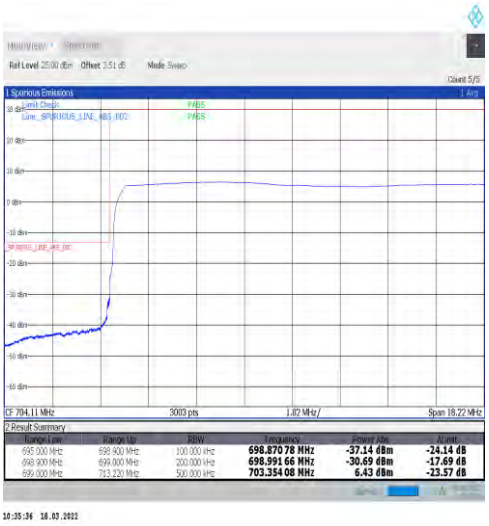

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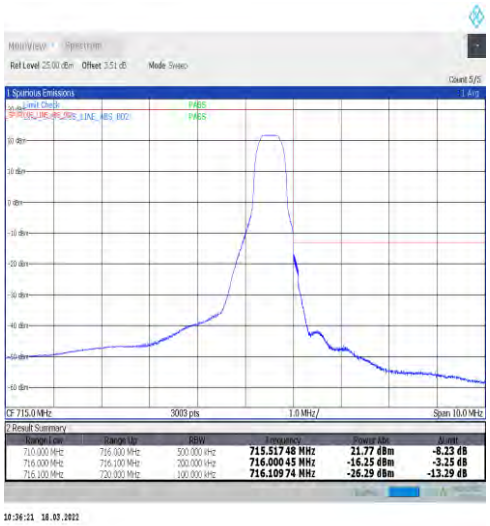

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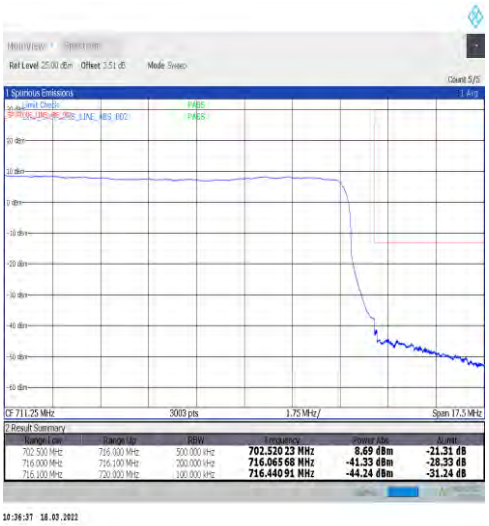

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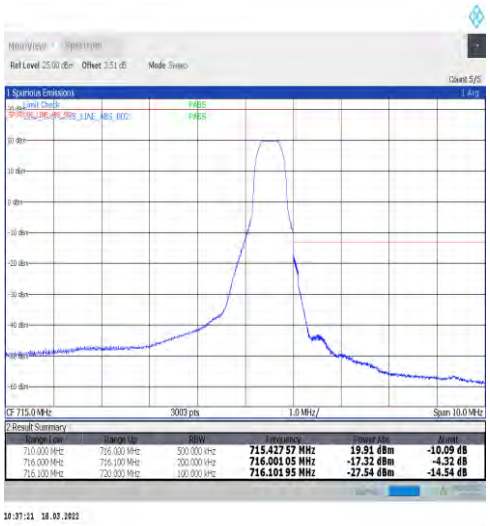

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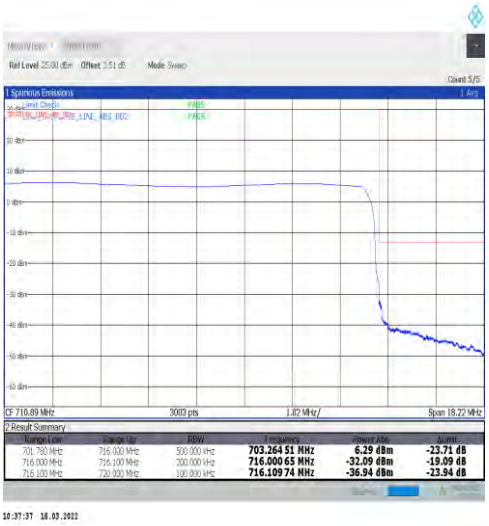

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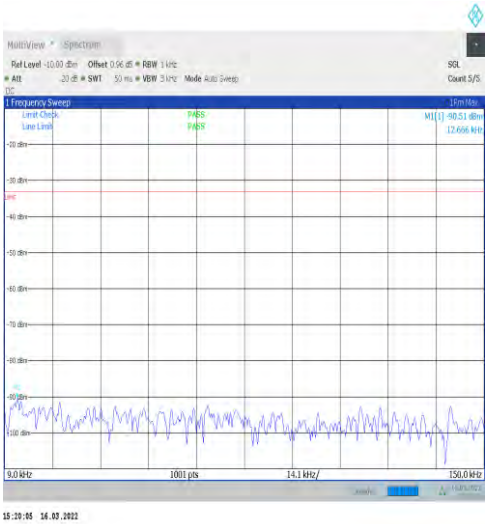	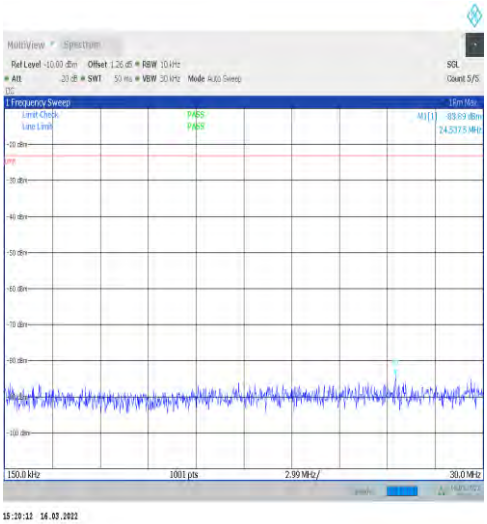
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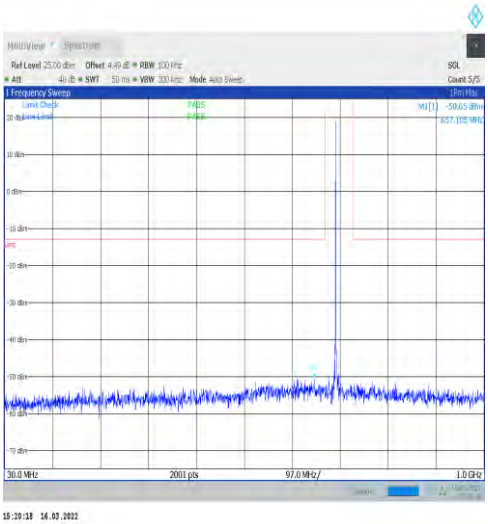	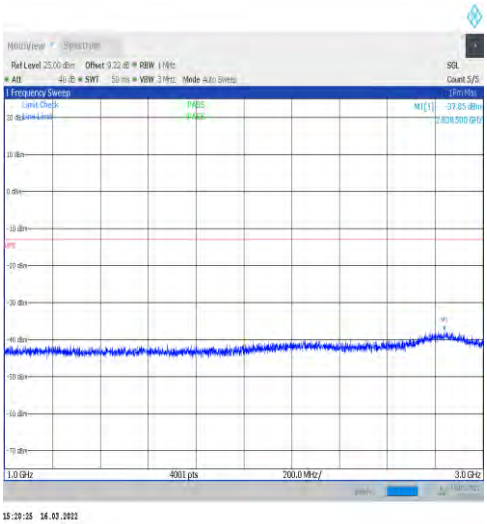
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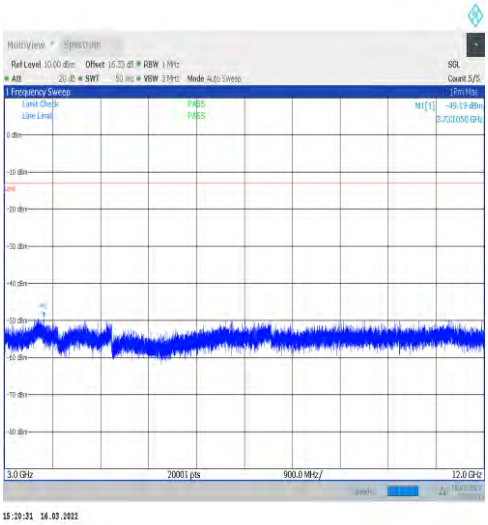

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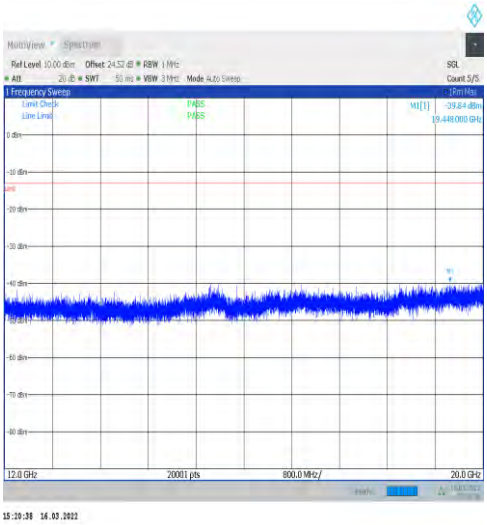

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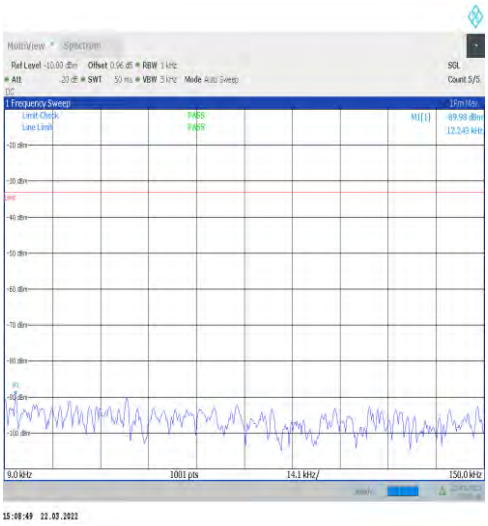
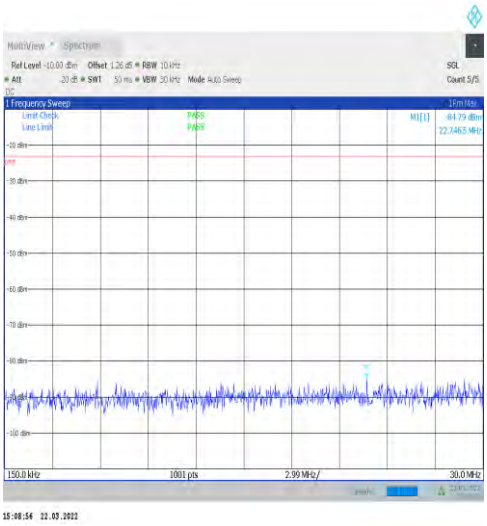


1-N12-15-15-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1--89.98--33-PASS



1-N12-15-15-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1--84.79--23-PASS

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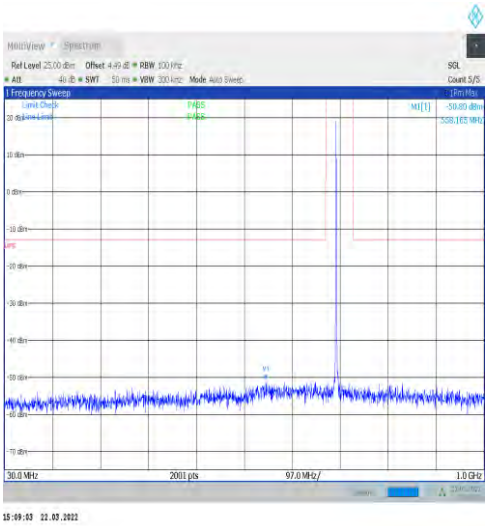
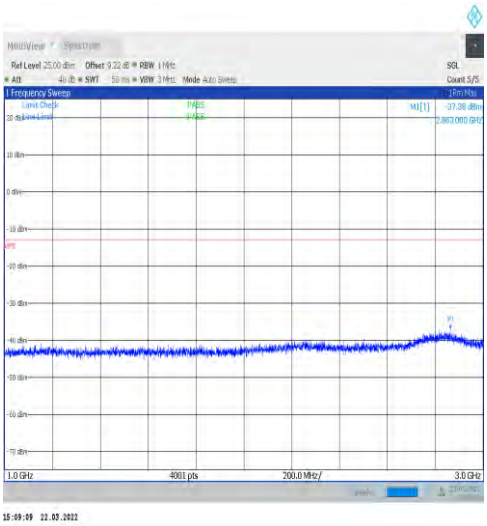
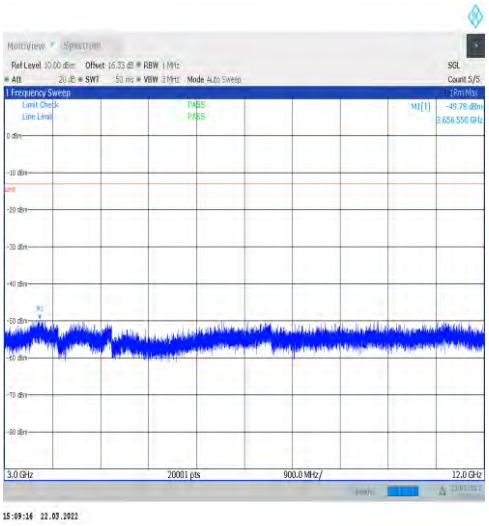


1-N12-15-15-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1--50.80--13-PASS



1-N12-15-15-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant1--37.38--13-PASS



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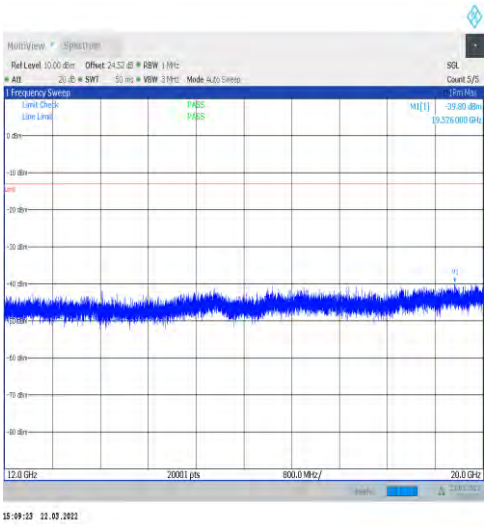

1-N12-15-15-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-20000-Ant1--39.80--13-PASS

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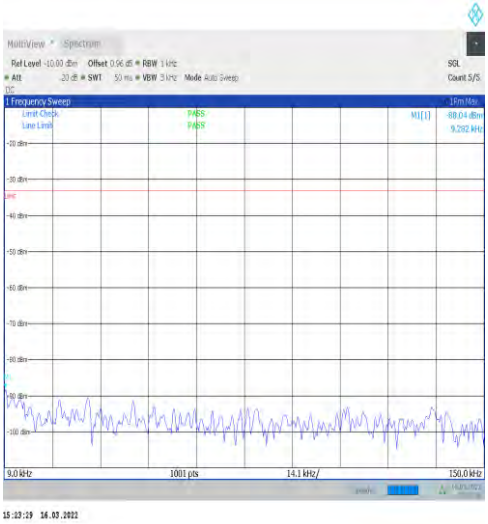
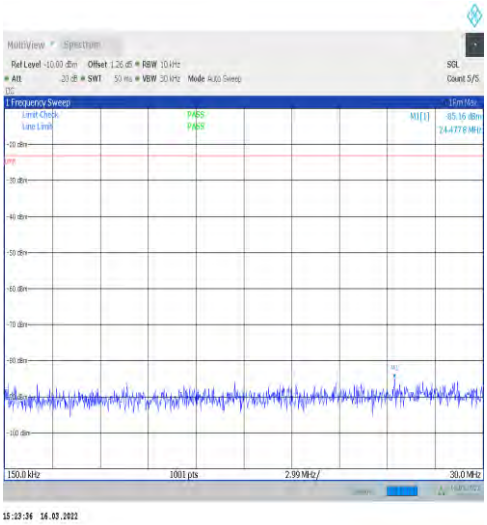
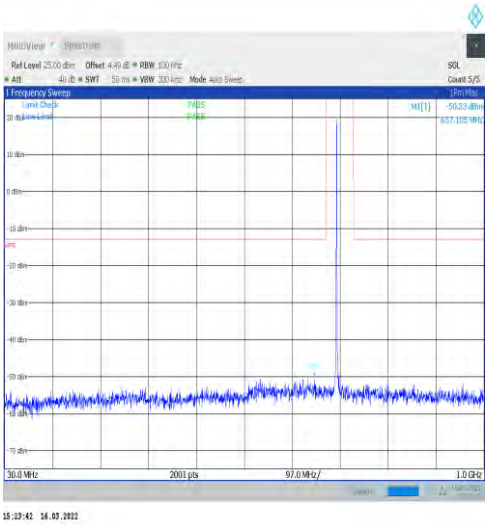


1-N12-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1--88.04--33-PASS



1-N12-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1--85.16--23-PASS



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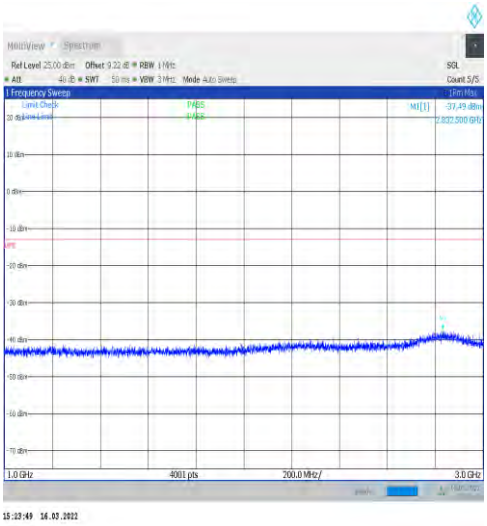

1-N12-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant1--37.49--13-PASS

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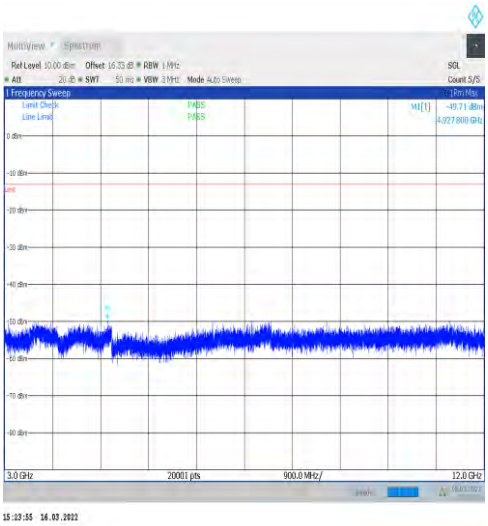	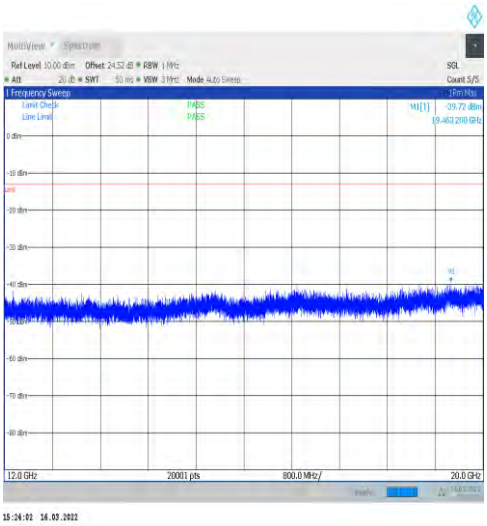
1-N12-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1 @1-3000-12000-Ant1--49.71--13-PASS	1-N12-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@ 1-12000-20000-Ant1--39.72--13-PASS

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Field Strength of Spurious Radiation

Test Band = SA n12_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1402.6667	78.88	-118.58	-39.70	-13.00	26.70	263	270	Horizontal
2	2105.7778	78.63	-116.02	-37.39	-13.00	24.39	214	130	Horizontal
3	2814.6667	57.83	-112.99	-55.16	-13.00	42.16	196	281	Horizontal
4	3499.2	49.31	-111.91	-62.60	-13.00	49.60	364	153	Horizontal
5	4199.04	48.37	-109.45	-61.08	-13.00	48.08	175	200	Horizontal
6	4898.88	50.00	-108.05	-58.05	-13.00	45.05	265	37	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1403.1111	65.39	-118.58	-53.19	-13.00	40.19	261	27	Vertical
2	2099.52	52.43	-116.04	-63.61	-13.00	50.61	175	2	Vertical
3	2799.36	51.18	-113.02	-61.84	-13.00	48.84	264	129	Vertical
4	3499.2	50.92	-111.91	-60.99	-13.00	47.99	177	300	Vertical
5	4199.04	48.56	-109.45	-60.89	-13.00	47.89	126	38	Vertical
6	4898.88	51.57	-108.05	-56.48	-13.00	43.48	324	1	Vertical

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Test Band = SA n12_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1401.3333	92.83	-118.59	-25.76	-13.00	12.76	261	47	Horizontal
2	2101.7778	85.47	-116.03	-30.56	-13.00	17.56	142	265	Horizontal
3	2801.7778	66.73	-113.02	-46.29	-13.00	33.29	185	151	Horizontal
4	3502.2222	55.97	-111.90	-55.93	-13.00	42.93	264	323	Horizontal
5	4202.2222	54.33	-109.45	-55.12	-13.00	42.12	175	220	Horizontal
6	4905.88	49.83	-108.03	-58.20	-13.00	45.20	268	220	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1400.8889	78.40	-118.59	-40.19	-13.00	27.19	362	357	Vertical
2	2101.3333	72.89	-116.04	-43.15	-13.00	30.15	141	323	Vertical
3	2802.2222	61.61	-113.02	-51.41	-13.00	38.41	185	70	Vertical
4	3502.6667	56.20	-111.90	-55.70	-13.00	42.70	264	195	Vertical
5	4205.04	48.40	-109.44	-61.04	-13.00	48.04	174	219	Vertical
6	4905.88	52.02	-108.03	-56.01	-13.00	43.01	158	6	Vertical

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Test Band = SA n12_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1402.6667	89.60	-118.58	-28.98	-13.00	15.98	261	338	Horizontal
2	2104.4444	77.55	-116.02	-38.47	-13.00	25.47	175	270	Horizontal
3	2805.3333	66.25	-113.01	-46.76	-13.00	33.76	268	222	Horizontal
4	3507.1111	70.75	-111.89	-41.14	-13.00	28.14	244	37	Horizontal
5	4208.8889	54.24	-109.44	-55.20	-13.00	42.20	177	129	Horizontal
6	4912.88	50.17	-108.00	-57.83	-13.00	44.83	264	210	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1403.1111	78.97	-118.58	-39.61	-13.00	26.61	261	288	Vertical
2	2104.4444	64.42	-116.02	-51.60	-13.00	38.60	175	125	Vertical
3	2805.3333	57.88	-113.01	-55.13	-13.00	42.13	264	89	Vertical
4	3507.5556	61.75	-111.88	-50.13	-13.00	37.13	177	65	Vertical
5	4211.04	49.59	-109.43	-59.84	-13.00	46.84	264	160	Vertical
6	4912.88	51.28	-108.00	-56.72	-13.00	43.72	178	333	Vertical

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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N12	15	15	DFT-PI2BPSK	M	Outer_Full	VH	NT	3.800000	0.005371	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	VN	NT	4.900000	0.006926	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	VL	NT	10.000000	0.014134	PASS
N12	15	15	CP-QPSK	M	Outer_Full	VH	NT	10.000000	0.014134	PASS
N12	15	15	CP-QPSK	M	Outer_Full	VN	NT	11.000000	0.015548	PASS
N12	15	15	CP-QPSK	M	Outer_Full	VL	NT	10.600000	0.014982	PASS

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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-30	6.600000	0.009329	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-20	8.800000	0.012438	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-10	4.800000	0.006784	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	0	2.000000	0.002827	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	10	2.000000	0.002827	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	20	5.200000	0.007350	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	30	3.000000	0.004240	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	40	7.000000	0.009894	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	50	4.900000	0.006926	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	-30	11.200000	0.015830	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	-20	9.500000	0.013428	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	-10	16.100000	0.022756	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	0	13.800000	0.019505	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	10	7.000000	0.009894	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	20	6.100000	0.008622	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	30	13.200000	0.018657	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	40	4.000000	0.005654	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	50	13.800000	0.019505	PASS

The End

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