Appendix B.31

NR Band n12

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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
N12	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	24.4	22.05	34.77	PASS
N12	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	24.4	22.05	34.77	PASS
N12	15	5	DFT-PI2BPSK	L	Outer_Full	23.85	21.5	34.77	PASS
N12	15	5	DFT-QPSK	L	Inner_1RB_Left	24.2	21.85	34.77	PASS
N12	15	5	DFT-QPSK	L	Inner_1RB_Right	24.37	22.02	34.77	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	23.33	20.98	34.77	PASS
N12	15	5	DFT-16QAM	L	Inner_1RB_Left	23.2	20.85	34.77	PASS
N12	15	5	DFT-16QAM	L	Inner_1RB_Right	23.35	21	34.77	PASS
N12	15	5	DFT-16QAM	L	Outer_Full	22.41	20.06	34.77	PASS
N12	15	5	DFT-64QAM	L	Inner_1RB_Left	22.03	19.68	34.77	PASS
N12	15	5	DFT-64QAM	L	Inner_1RB_Right	22.17	19.82	34.77	PASS
N12	15	5	DFT-64QAM	L	Outer_Full	21.86	19.51	34.77	PASS
N12	15	5	DFT-256QAM	L	Inner_1RB_Left	19.3	16.95	34.77	PASS
N12	15	5	DFT-256QAM	L	Inner_1RB_Right	19.41	17.06	34.77	PASS
N12	15	5	DFT-256QAM	L	Outer_Full	19.78	17.43	34.77	PASS
N12	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	24.42	22.07	34.77	PASS
N12	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	24.55	22.2	34.77	PASS
N12	15	5	DFT-PI2BPSK	M	Outer_Full	24.02	21.67	34.77	PASS
N12	15	5	DFT-QPSK	M	Inner_1RB_Left	24.41	22.06	34.77	PASS
N12	15	5	DFT-QPSK	M	Inner_1RB_Right	24.41	22.06	34.77	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	23.55	21.2	34.77	PASS
N12	15	5	DFT-16QAM	M	Inner_1RB_Left	23.41	21.06	34.77	PASS
N12	15	5	DFT-16QAM	M	Inner_1RB_Right	23.53	21.18	34.77	PASS
N12	15	5	DFT-16QAM	M	Outer_Full	22.54	20.19	34.77	PASS
N12	15	5	DFT-64QAM	M	Inner_1RB_Left	22.17	19.82	34.77	PASS
N12	15	5	DFT-64QAM	M	Inner_1RB_Right	22.21	19.86	34.77	PASS
N12	15	5	DFT-64QAM	M	Outer_Full	22.03	19.68	34.77	PASS
N12	15	5	DFT-256QAM	M	Inner_1RB_Left	19.46	17.11	34.77	PASS
N12	15	5	DFT-256QAM	M	Inner_1RB_Right	19.44	17.09	34.77	PASS
N12	15	5	DFT-256QAM	M	Outer_Full	20	17.65	34.77	PASS
N12	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	24.48	22.13	34.77	PASS
N12	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	24.41	22.06	34.77	PASS

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N12	15	5	DFT-PI2BPSK	H	Outer_Full	23.89	21.54	34.77	PASS
N12	15	5	DFT-QPSK	H	Inner_1RB_Left	24.37	22.02	34.77	PASS
N12	15	5	DFT-QPSK	H	Inner_1RB_Right	24.36	22.01	34.77	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	23.47	21.12	34.77	PASS
N12	15	5	DFT-16QAM	H	Inner_1RB_Left	23.46	21.11	34.77	PASS
N12	15	5	DFT-16QAM	H	Inner_1RB_Right	23.35	21	34.77	PASS
N12	15	5	DFT-16QAM	H	Outer_Full	22.48	20.13	34.77	PASS
N12	15	5	DFT-64QAM	H	Inner_1RB_Left	22.19	19.84	34.77	PASS
N12	15	5	DFT-64QAM	H	Inner_1RB_Right	22.06	19.71	34.77	PASS
N12	15	5	DFT-64QAM	H	Outer_Full	21.94	19.59	34.77	PASS
N12	15	5	DFT-256QAM	H	Inner_1RB_Left	19.53	17.18	34.77	PASS
N12	15	5	DFT-256QAM	H	Inner_1RB_Right	19.33	16.98	34.77	PASS
N12	15	5	DFT-256QAM	H	Outer_Full	19.86	17.51	34.77	PASS
N12	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	24.33	21.98	34.77	PASS
N12	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	24.51	22.16	34.77	PASS
N12	15	10	DFT-PI2BPSK	L	Outer_Full	23.98	21.63	34.77	PASS
N12	15	10	DFT-QPSK	L	Inner_1RB_Left	24.28	21.93	34.77	PASS
N12	15	10	DFT-QPSK	L	Inner_1RB_Right	24.43	22.08	34.77	PASS
N12	15	10	DFT-QPSK	L	Outer_Full	23.45	21.1	34.77	PASS
N12	15	10	DFT-16QAM	L	Inner_1RB_Left	23.29	20.94	34.77	PASS
N12	15	10	DFT-16QAM	L	Inner_1RB_Right	23.53	21.18	34.77	PASS
N12	15	10	DFT-16QAM	L	Outer_Full	22.43	20.08	34.77	PASS
N12	15	10	DFT-64QAM	L	Inner_1RB_Left	22.04	19.69	34.77	PASS
N12	15	10	DFT-64QAM	L	Inner_1RB_Right	22.17	19.82	34.77	PASS
N12	15	10	DFT-64QAM	L	Outer_Full	21.98	19.63	34.77	PASS
N12	15	10	DFT-256QAM	L	Inner_1RB_Left	19.23	16.88	34.77	PASS
N12	15	10	DFT-256QAM	L	Inner_1RB_Right	19.49	17.14	34.77	PASS
N12	15	10	DFT-256QAM	L	Outer_Full	19.87	17.52	34.77	PASS
N12	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	24.48	22.13	34.77	PASS
N12	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	24.47	22.12	34.77	PASS
N12	15	10	DFT-PI2BPSK	M	Outer_Full	23.99	21.64	34.77	PASS
N12	15	10	DFT-QPSK	M	Inner_1RB_Left	24.33	21.98	34.77	PASS
N12	15	10	DFT-QPSK	M	Inner_1RB_Right	24.42	22.07	34.77	PASS
N12	15	10	DFT-QPSK	M	Outer_Full	23.53	21.18	34.77	PASS
N12	15	10	DFT-16QAM	M	Inner_1RB_Left	23.41	21.06	34.77	PASS
N12	15	10	DFT-16QAM	M	Inner_1RB_Right	23.54	21.19	34.77	PASS
N12	15	10	DFT-16QAM	M	Outer_Full	22.5	20.15	34.77	PASS
N12	15	10	DFT-64QAM	M	Inner_1RB_Left	22.2	19.85	34.77	PASS

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N12	15	10	DFT-64QAM	M	Inner_1RB_Right	22.23	19.88	34.77	PASS
N12	15	10	DFT-64QAM	M	Outer_Full	22.05	19.7	34.77	PASS
N12	15	10	DFT-256QAM	M	Inner_1RB_Left	19.4	17.05	34.77	PASS
N12	15	10	DFT-256QAM	M	Inner_1RB_Right	19.5	17.15	34.77	PASS
N12	15	10	DFT-256QAM	M	Outer_Full	19.98	17.63	34.77	PASS
N12	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	24.59	22.24	34.77	PASS
N12	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	24.45	22.1	34.77	PASS
N12	15	10	DFT-PI2BPSK	H	Outer_Full	24.02	21.67	34.77	PASS
N12	15	10	DFT-QPSK	H	Inner_1RB_Left	24.45	22.1	34.77	PASS
N12	15	10	DFT-QPSK	H	Inner_1RB_Right	24.29	21.94	34.77	PASS
N12	15	10	DFT-QPSK	H	Outer_Full	23.49	21.14	34.77	PASS
N12	15	10	DFT-16QAM	H	Inner_1RB_Left	23.5	21.15	34.77	PASS
N12	15	10	DFT-16QAM	H	Inner_1RB_Right	23.24	20.89	34.77	PASS
N12	15	10	DFT-16QAM	H	Outer_Full	22.46	20.11	34.77	PASS
N12	15	10	DFT-64QAM	H	Inner_1RB_Left	22.26	19.91	34.77	PASS
N12	15	10	DFT-64QAM	H	Inner_1RB_Right	22.12	19.77	34.77	PASS
N12	15	10	DFT-64QAM	H	Outer_Full	22.09	19.74	34.77	PASS
N12	15	10	DFT-256QAM	H	Inner_1RB_Left	19.4	17.05	34.77	PASS
N12	15	10	DFT-256QAM	H	Inner_1RB_Right	19.51	17.16	34.77	PASS
N12	15	10	DFT-256QAM	H	Outer_Full	19.95	17.6	34.77	PASS
N12	15	15	DFT-PI2BPSK	L	Inner_1RB_Left	24.52	22.17	34.77	PASS
N12	15	15	DFT-PI2BPSK	L	Inner_1RB_Right	24.51	22.16	34.77	PASS
N12	15	15	DFT-PI2BPSK	L	Outer_Full	24.14	21.79	34.77	PASS
N12	15	15	DFT-QPSK	L	Inner_1RB_Left	24.27	21.92	34.77	PASS
N12	15	15	DFT-QPSK	L	Inner_1RB_Right	24.41	22.06	34.77	PASS
N12	15	15	DFT-QPSK	L	Outer_Full	23.61	21.26	34.77	PASS
N12	15	15	DFT-16QAM	L	Inner_1RB_Left	23.28	20.93	34.77	PASS
N12	15	15	DFT-16QAM	L	Inner_1RB_Right	23.51	21.16	34.77	PASS
N12	15	15	DFT-16QAM	L	Outer_Full	22.61	20.26	34.77	PASS
N12	15	15	DFT-64QAM	L	Inner_1RB_Left	22.03	19.68	34.77	PASS
N12	15	15	DFT-64QAM	L	Inner_1RB_Right	22.17	19.82	34.77	PASS
N12	15	15	DFT-64QAM	L	Outer_Full	22.17	19.82	34.77	PASS
N12	15	15	DFT-256QAM	L	Inner_1RB_Left	19.53	17.18	34.77	PASS
N12	15	15	DFT-256QAM	L	Inner_1RB_Right	19.52	17.17	34.77	PASS
N12	15	15	DFT-256QAM	L	Outer_Full	20.06	17.71	34.77	PASS
N12	15	15	DFT-PI2BPSK	M	Inner_1RB_Left	24.46	22.11	34.77	PASS
N12	15	15	DFT-PI2BPSK	M	Inner_1RB_Right	24.49	22.14	34.77	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	24.12	21.77	34.77	PASS

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N12	15	15	DFT-QPSK	M	Inner_1RB_Left	24.33	21.98	34.77	PASS
N12	15	15	DFT-QPSK	M	Inner_1RB_Right	24.37	22.02	34.77	PASS
N12	15	15	DFT-QPSK	M	Outer_Full	23.59	21.24	34.77	PASS
N12	15	15	DFT-16QAM	M	Inner_1RB_Left	23.47	21.12	34.77	PASS
N12	15	15	DFT-16QAM	M	Inner_1RB_Right	23.46	21.11	34.77	PASS
N12	15	15	DFT-16QAM	M	Outer_Full	22.6	20.25	34.77	PASS
N12	15	15	DFT-64QAM	M	Inner_1RB_Left	22.19	19.84	34.77	PASS
N12	15	15	DFT-64QAM	M	Inner_1RB_Right	22.1	19.75	34.77	PASS
N12	15	15	DFT-64QAM	M	Outer_Full	22.13	19.78	34.77	PASS
N12	15	15	DFT-256QAM	M	Inner_1RB_Left	19.47	17.12	34.77	PASS
N12	15	15	DFT-256QAM	M	Inner_1RB_Right	19.46	17.11	34.77	PASS
N12	15	15	DFT-256QAM	M	Outer_Full	20.03	17.68	34.77	PASS
N12	15	15	DFT-PI2BPSK	H	Inner_1RB_Left	24.49	22.14	34.77	PASS
N12	15	15	DFT-PI2BPSK	H	Inner_1RB_Right	24.43	22.08	34.77	PASS
N12	15	15	DFT-PI2BPSK	H	Outer_Full	24.06	21.71	34.77	PASS
N12	15	15	DFT-QPSK	H	Inner_1RB_Left	24.34	21.99	34.77	PASS
N12	15	15	DFT-QPSK	H	Inner_1RB_Right	24.29	21.94	34.77	PASS
N12	15	15	DFT-QPSK	H	Outer_Full	23.54	21.19	34.77	PASS
N12	15	15	DFT-16QAM	H	Inner_1RB_Left	23.36	21.01	34.77	PASS
N12	15	15	DFT-16QAM	H	Inner_1RB_Right	23.32	20.97	34.77	PASS
N12	15	15	DFT-16QAM	H	Outer_Full	22.66	20.31	34.77	PASS
N12	15	15	DFT-64QAM	H	Inner_1RB_Left	22.19	19.84	34.77	PASS
N12	15	15	DFT-64QAM	H	Inner_1RB_Right	22.12	19.77	34.77	PASS
N12	15	15	DFT-64QAM	H	Outer_Full	22.14	19.79	34.77	PASS
N12	15	15	DFT-256QAM	H	Inner_1RB_Left	19.5	17.15	34.77	PASS
N12	15	15	DFT-256QAM	H	Inner_1RB_Right	19.38	17.03	34.77	PASS
N12	15	15	DFT-256QAM	H	Outer_Full	19.99	17.64	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	9.05	≤13	PASS
N12	15	15	CP-256QAM	L	Outer_Full	100%	0.00	9.37	≤13	PASS
N12	15	15	DFT-256QAM	M	Outer_Full	100%	0.00	8.97	≤13	PASS
N12	15	15	CP-256QAM	M	Outer_Full	100%	0.00	9.42	≤13	PASS
N12	15	15	DFT-256QAM	H	Outer_Full	100%	0.00	8.89	≤13	PASS
N12	15	15	CP-256QAM	H	Outer_Full	100%	0.00	9.45	≤13	PASS

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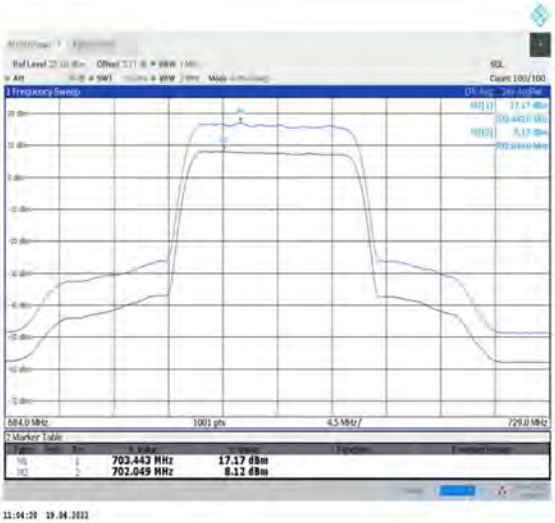
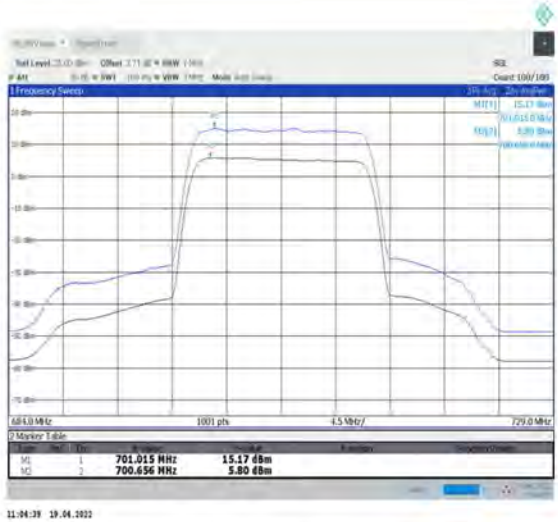
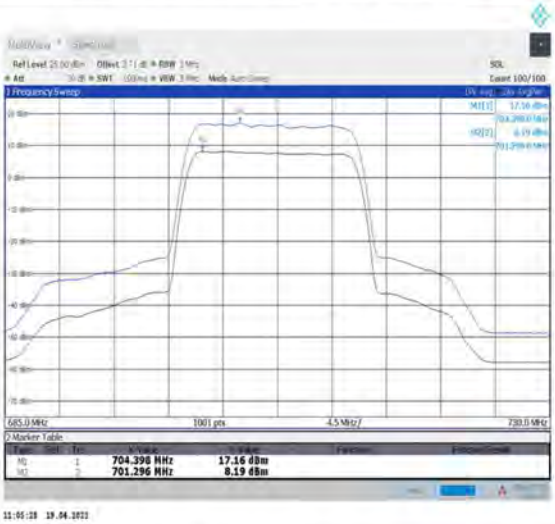
Test Graphs



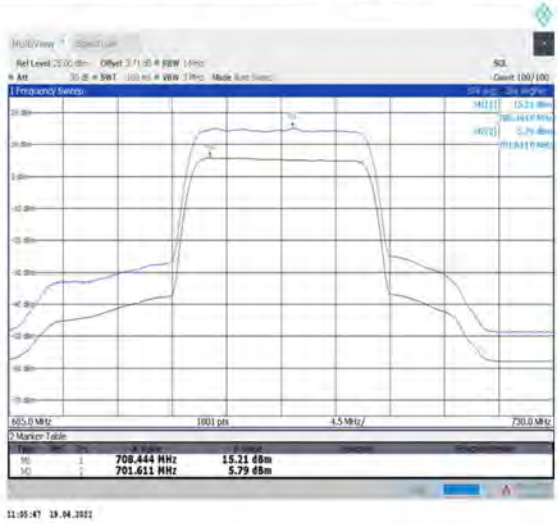
1-N12--15-15-L-1-DFT-256QAM-Outer_Full-75@0-Ant1-9.05-100%-0.00-9.05-PASS-≤13



1-N12--15-15-L-2-CP-256QAM-Outer_Full-79@0-Ant1-9.37-100%-0.00-9.37-PASS-≤13



1-N12--15-15-M-1-DFT-256QAM-Outer_Full-75@0-Ant1-8.97-100%-0.00-8.97-PASS-≤13



1-N12--15-15-M-2-CP-256QAM-Outer_Full-79@0-Ant1-9.42-100%-0.00-9.42-PASS-≤13

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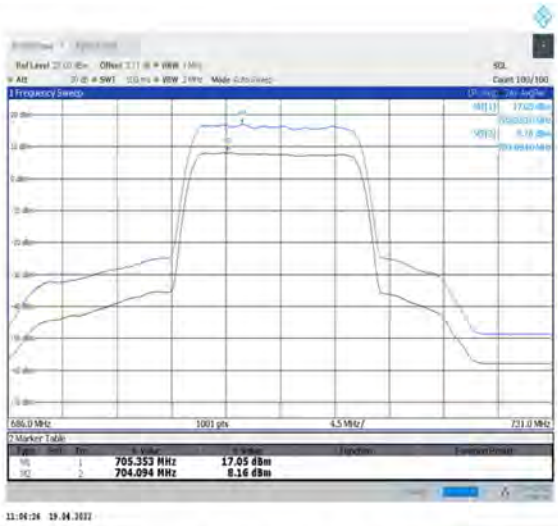	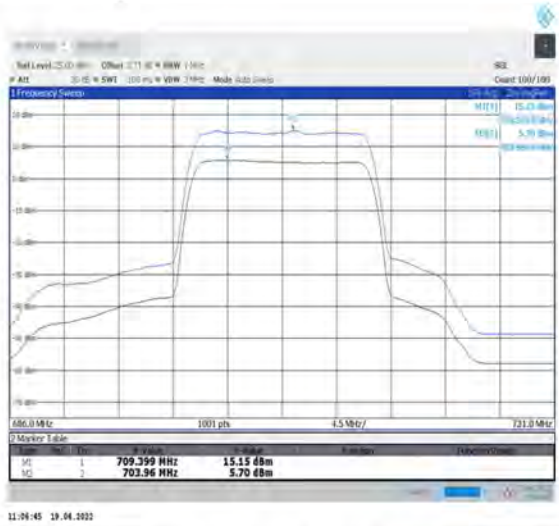
1-N12--15-15-H-1-DFT-256QAM-Outer_Full-75@0-Ant1-8.89-100%-0.00-8.89-PASS-≤13	1-N12--15-15-H-2-CP-256QAM-Outer_Full-79@0-Ant1-9.45-100%-0.00-9.45-PASS-≤13

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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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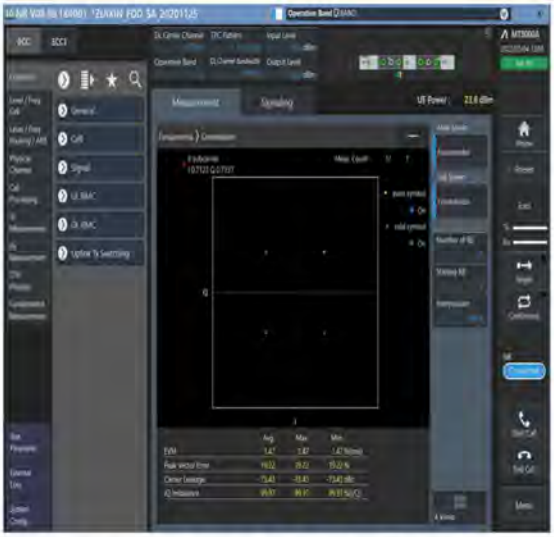
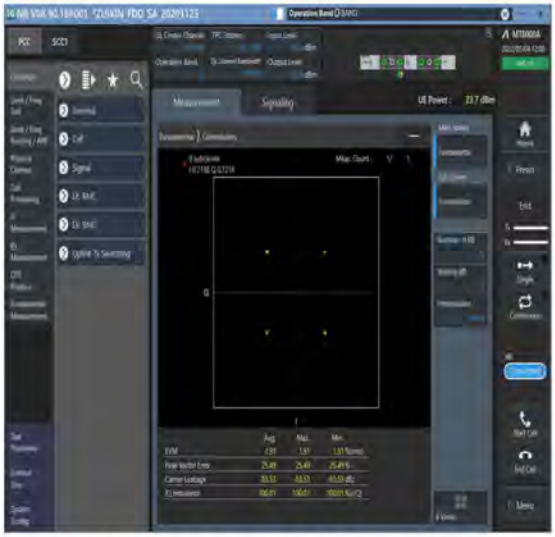
Test Graphs



1-N12-PC3-15-15-M-1-DFT-PI2BPSK-Outer_Full-75@0-Ant1-see graph-PASS



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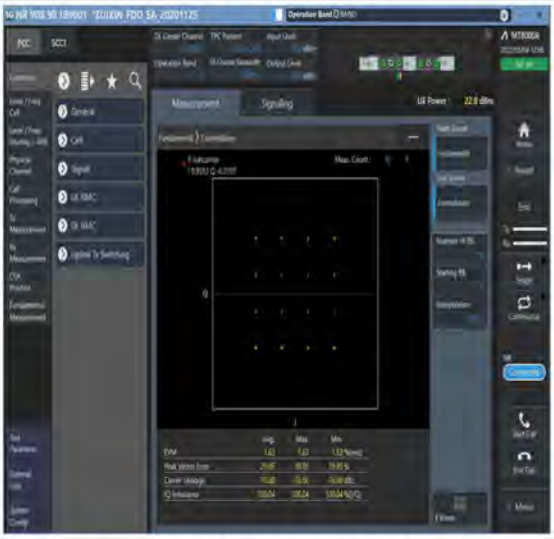
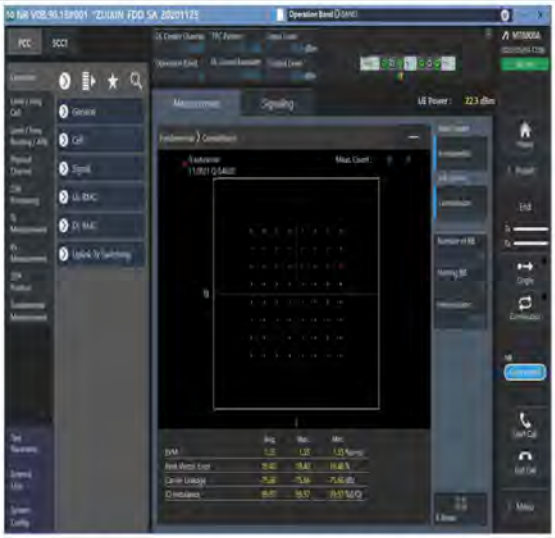


1-N12-PC3-15-15-M-3-DFT-16QAM-Outer_Full-75@0-Ant1-see graph-PASS



1-N12-PC3-15-15-M-4-DFT-64QAM-Outer_Full-75@0-Ant1-see graph-PASS

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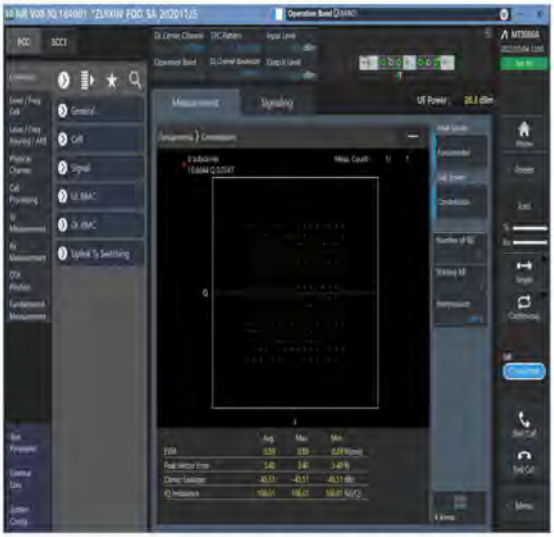
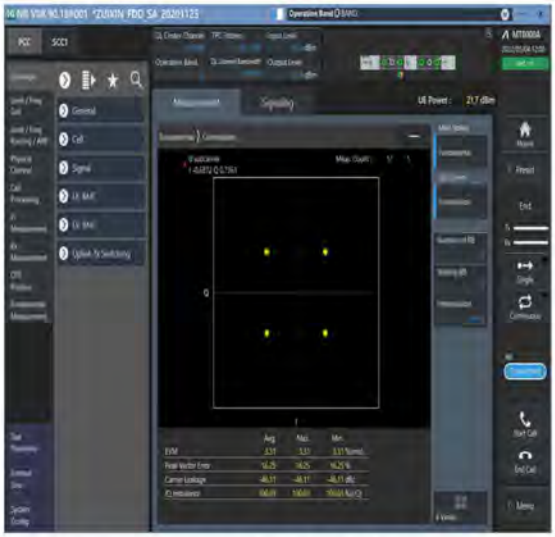
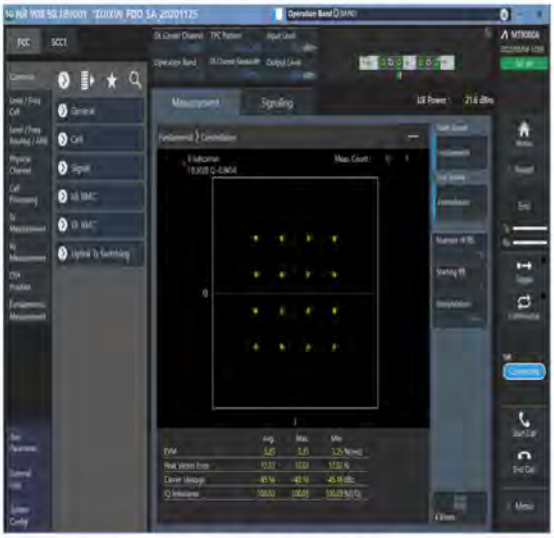
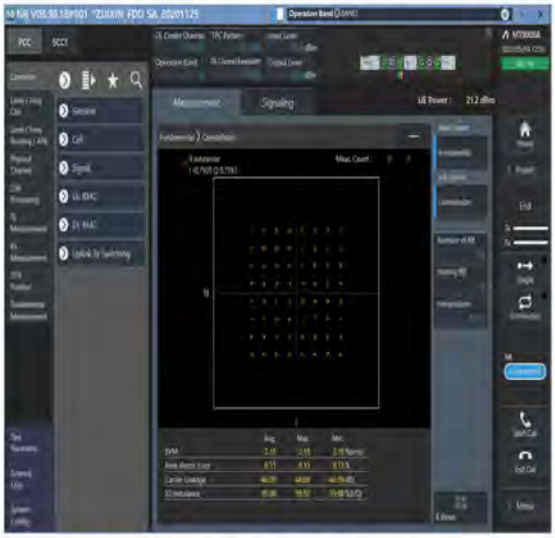
	
1-N12-PC3-15-15-M-5-DFT-256QAM-Outer_Full-75@0-Ant1-see graph-PASS	1-N12-PC3-15-15-M-6-CP-QPSK-Outer_Full-79@0-Ant1-see graph-PASS
	
1-N12-PC3-15-15-M-7-CP-16QAM-Outer_Full-79@0-Ant1-see graph-PASS	1-N12-PC3-15-15-M-8-CP-64QAM-Outer_Full-79@0-Ant1-see graph-PASS

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1-N12-PC3-15-15-M-9-CP-256QAM-Outer_Full-79@0-Ant1-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	4.478	4.990	PASS
N12	15	5	DFT-PI2BPSK	L	Outer_Full	4.487	5.110	PASS
N12	15	5	DFT-16QAM	L	Outer_Full	4.474	5.030	PASS
N12	15	5	DFT-64QAM	L	Outer_Full	4.475	5.130	PASS
N12	15	5	DFT-256QAM	L	Outer_Full	4.482	5.110	PASS
N12	15	5	CP-QPSK	L	Outer_Full	4.47	5.140	PASS
N12	15	5	CP-16QAM	L	Outer_Full	4.482	5.090	PASS
N12	15	5	CP-64QAM	L	Outer_Full	4.476	5.210	PASS
N12	15	5	CP-256QAM	L	Outer_Full	4.491	5.150	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	4.485	5.120	PASS
N12	15	5	DFT-PI2BPSK	M	Outer_Full	4.485	5.160	PASS
N12	15	5	DFT-16QAM	M	Outer_Full	4.473	5.060	PASS
N12	15	5	DFT-64QAM	M	Outer_Full	4.47	5.090	PASS
N12	15	5	DFT-256QAM	M	Outer_Full	4.477	5.050	PASS
N12	15	5	CP-QPSK	M	Outer_Full	4.48	5.240	PASS
N12	15	5	CP-16QAM	M	Outer_Full	4.474	5.140	PASS
N12	15	5	CP-64QAM	M	Outer_Full	4.48	5.150	PASS
N12	15	5	CP-256QAM	M	Outer_Full	4.492	5.150	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	4.486	5.130	PASS
N12	15	5	DFT-PI2BPSK	H	Outer_Full	4.481	5.110	PASS
N12	15	5	DFT-16QAM	H	Outer_Full	4.47	5.050	PASS
N12	15	5	DFT-64QAM	H	Outer_Full	4.477	5.130	PASS
N12	15	5	DFT-256QAM	H	Outer_Full	4.476	5.020	PASS
N12	15	5	CP-QPSK	H	Outer_Full	4.492	5.210	PASS
N12	15	5	CP-16QAM	H	Outer_Full	4.475	5.130	PASS
N12	15	5	CP-64QAM	H	Outer_Full	4.481	5.170	PASS
N12	15	5	CP-256QAM	H	Outer_Full	4.489	5.190	PASS
N12	15	10	DFT-QPSK	L	Outer_Full	8.918	9.720	PASS
N12	15	10	DFT-PI2BPSK	L	Outer_Full	8.931	9.660	PASS
N12	15	10	DFT-16QAM	L	Outer_Full	8.928	9.760	PASS
N12	15	10	DFT-64QAM	L	Outer_Full	8.938	9.760	PASS
N12	15	10	DFT-256QAM	L	Outer_Full	8.918	9.800	PASS

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N12	15	10	CP-QPSK	L	Outer_Full	9.282	10.220	PASS
N12	15	10	CP-16QAM	L	Outer_Full	9.284	10.240	PASS
N12	15	10	CP-64QAM	L	Outer_Full	9.294	10.220	PASS
N12	15	10	CP-256QAM	L	Outer_Full	9.284	10.140	PASS
N12	15	10	DFT-QPSK	M	Outer_Full	8.937	9.620	PASS
N12	15	10	DFT-PI2BPSK	M	Outer_Full	8.945	9.620	PASS
N12	15	10	DFT-16QAM	M	Outer_Full	8.932	9.680	PASS
N12	15	10	DFT-64QAM	M	Outer_Full	8.927	9.660	PASS
N12	15	10	DFT-256QAM	M	Outer_Full	8.933	9.620	PASS
N12	15	10	CP-QPSK	M	Outer_Full	9.3	10.300	PASS
N12	15	10	CP-16QAM	M	Outer_Full	9.28	10.060	PASS
N12	15	10	CP-64QAM	M	Outer_Full	9.296	10.200	PASS
N12	15	10	CP-256QAM	M	Outer_Full	9.285	10.100	PASS
N12	15	10	DFT-QPSK	H	Outer_Full	8.943	9.720	PASS
N12	15	10	DFT-PI2BPSK	H	Outer_Full	8.941	9.840	PASS
N12	15	10	DFT-16QAM	H	Outer_Full	8.948	9.620	PASS
N12	15	10	DFT-64QAM	H	Outer_Full	8.939	9.740	PASS
N12	15	10	DFT-256QAM	H	Outer_Full	8.939	9.680	PASS
N12	15	10	CP-QPSK	H	Outer_Full	9.302	10.240	PASS
N12	15	10	CP-16QAM	H	Outer_Full	9.287	10.240	PASS
N12	15	10	CP-64QAM	H	Outer_Full	9.319	10.260	PASS
N12	15	10	CP-256QAM	H	Outer_Full	9.305	10.200	PASS
N12	15	15	DFT-QPSK	L	Outer_Full	13.488	14.460	PASS
N12	15	15	DFT-PI2BPSK	L	Outer_Full	13.401	14.340	PASS
N12	15	15	DFT-16QAM	L	Outer_Full	13.428	14.400	PASS
N12	15	15	DFT-64QAM	L	Outer_Full	13.411	14.490	PASS
N12	15	15	DFT-256QAM	L	Outer_Full	13.416	14.490	PASS
N12	15	15	CP-QPSK	L	Outer_Full	14.115	15.240	PASS
N12	15	15	CP-16QAM	L	Outer_Full	14.096	15.090	PASS
N12	15	15	CP-64QAM	L	Outer_Full	14.135	15.180	PASS
N12	15	15	CP-256QAM	L	Outer_Full	14.125	15.240	PASS
N12	15	15	DFT-QPSK	M	Outer_Full	13.492	14.430	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	13.433	14.370	PASS
N12	15	15	DFT-16QAM	M	Outer_Full	13.438	14.490	PASS
N12	15	15	DFT-64QAM	M	Outer_Full	13.424	14.550	PASS
N12	15	15	DFT-256QAM	M	Outer_Full	13.425	14.430	PASS
N12	15	15	CP-QPSK	M	Outer_Full	14.134	15.300	PASS
N12	15	15	CP-16QAM	M	Outer_Full	14.12	15.120	PASS

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N12	15	15	CP-64QAM	M	Outer_Full	14.158	15.210	PASS
N12	15	15	CP-256QAM	M	Outer_Full	14.147	15.270	PASS
N12	15	15	DFT-QPSK	H	Outer_Full	13.5	14.460	PASS
N12	15	15	DFT-PI2BPSK	H	Outer_Full	13.425	14.340	PASS
N12	15	15	DFT-16QAM	H	Outer_Full	13.439	14.550	PASS
N12	15	15	DFT-64QAM	H	Outer_Full	13.416	14.490	PASS
N12	15	15	DFT-256QAM	H	Outer_Full	13.45	14.610	PASS
N12	15	15	CP-QPSK	H	Outer_Full	14.124	15.270	PASS
N12	15	15	CP-16QAM	H	Outer_Full	14.124	15.240	PASS
N12	15	15	CP-64QAM	H	Outer_Full	14.143	15.090	PASS
N12	15	15	CP-256QAM	H	Outer_Full	14.145	15.270	PASS

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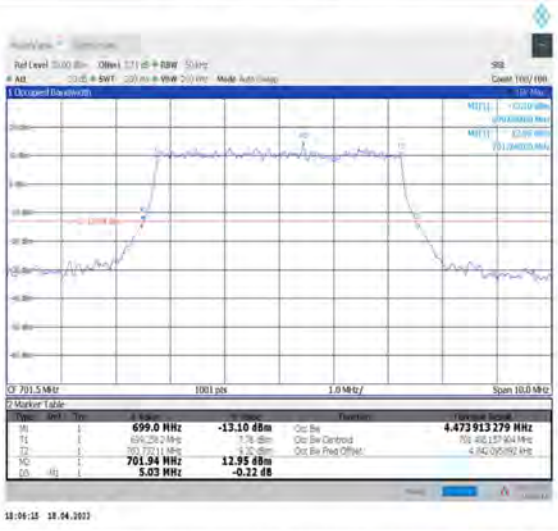
Test Graphs

1-N12--15-5-L-1-DFT-QPSK-Outer_Full-25@0-Ant1-4.478-4.990-≤5-PASS

1-N12--15-5-L-2-DFT-PI2BPSK-Outer_Full-25@0-Ant1-4.487-5.110-≤5-PASS



1-N12--15-5-L-3-DFT-16QAM-Outer_Full-25@0-Ant1-4.474-5.030-≤5-PASS

1-N12--15-5-L-4-DFT-64QAM-Outer_Full-25@0-Ant1-4.475-5.130-≤5-PASS

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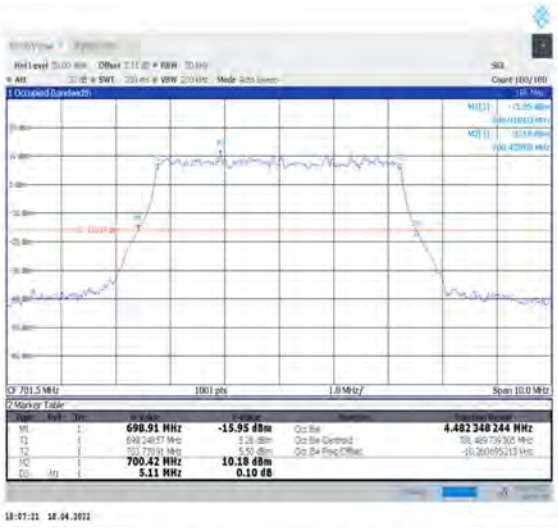
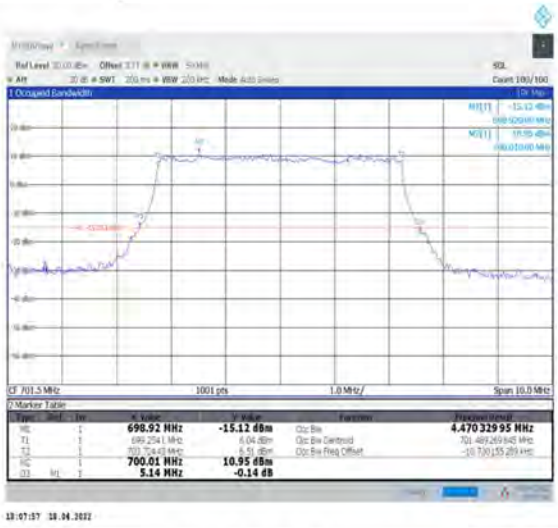
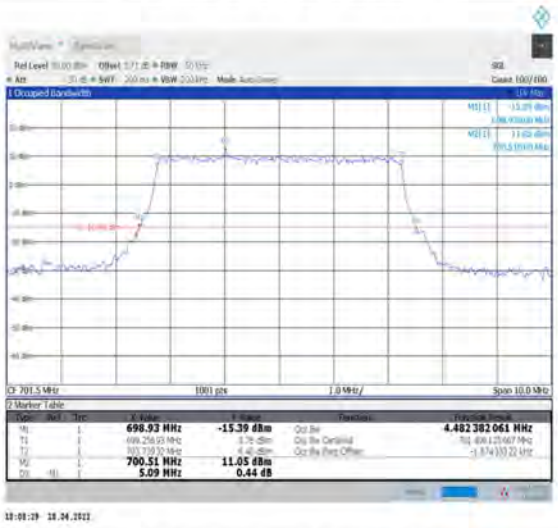


1-N12--15-5-L-5-DFT-256QAM-Outer_Full-25@0-Ant1-4.482-5.110-≤5-PASS



1-N12--15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant1-4.47-5.140-≤5-PASS



1-N12--15-5-L-7-CP-16QAM-Outer_Full-25@0-Ant1-4.482-5.090-≤5-PASS

1-N12--15-5-L-8-CP-64QAM-Outer_Full-25@0-Ant1-4.476-5.210-≤5-PASS

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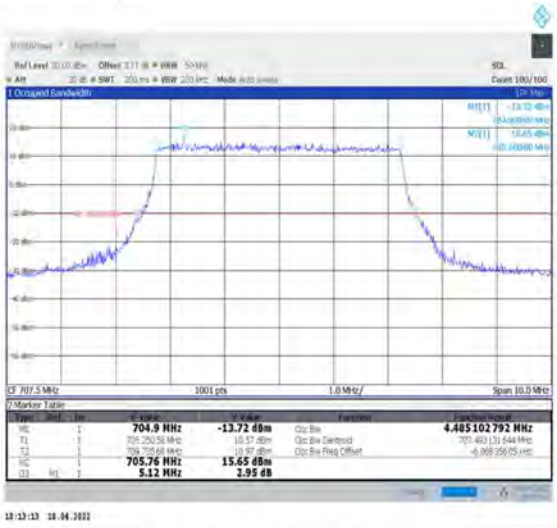
1-N12--15-5-L-9-CP-256QAM-Outer_Full-25@0-Ant1-4.491-5.150-≤5-PASS



1-N12--15-5-M-1-DFT-QPSK-Outer_Full-25@0-Ant1-4.485-5.120-≤5-PASS

1-N12--15-5-M-2-DFT-PI2BPSK-Outer_Full-25@0-Ant1-4.485-5.160-≤5-PASS

1-N12--15-5-M-3-DFT-16QAM-Outer_Full-25@0-Ant1-4.473-5.060-≤5-PASS

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1-N12--15-5-M-4-DFT-64QAM-Outer_Full-25@0-Ant1-4.47-5.090-≤5-PASS

1-N12--15-5-M-5-DFT-256QAM-Outer_Full-25@0-Ant1-4.477-5.050-≤5-PASS

1-N12--15-5-M-6-CP-QPSK-Outer_Full-25@0-Ant1-4.48-5.240-≤5-PASS

1-N12--15-5-M-7-CP-16QAM-Outer_Full-25@0-Ant1-4.474-5.140-≤5-PASS

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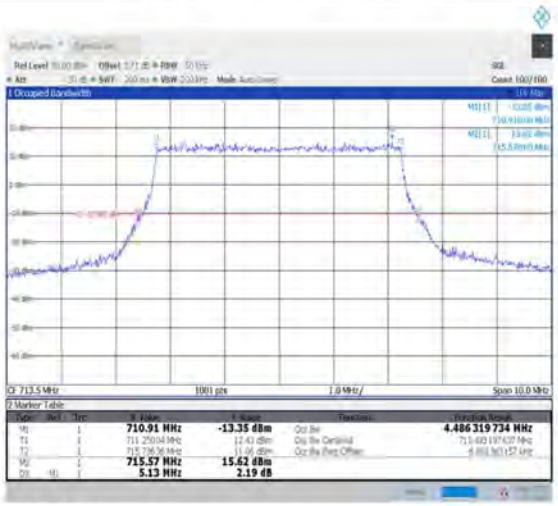
1-N12--15-5-M-8-CP-64QAM-Outer_Full-25@0-Ant1-4.48-5.150-≤5-PASS

1-N12--15-5-M-9-CP-256QAM-Outer_Full-25@0-Ant1-4.492-5.150-≤5-PASS



1-N12--15-5-H-1-DFT-QPSK-Outer_Full-25@0-Ant1-4.486-5.130-≤5-PASS

1-N12--15-5-H-2-DFT-PI2BPSK-Outer_Full-25@0-Ant1-4.481-5.110-≤5-PASS

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1-N12--15-5-H-3-DFT-16QAM-Outer_Full-25@0-Ant1-4.47-5.050-≤5-PASS

1-N12--15-5-H-4-DFT-64QAM-Outer_Full-25@0-Ant1-4.477-5.130-≤5-PASS

1-N12--15-5-H-5-DFT-256QAM-Outer_Full-25@0-Ant1-4.476-5.020-≤5-PASS

1-N12--15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-4.492-5.210-≤5-PASS

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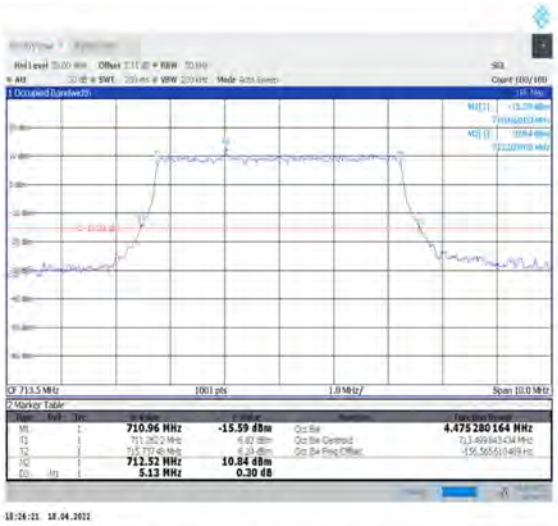

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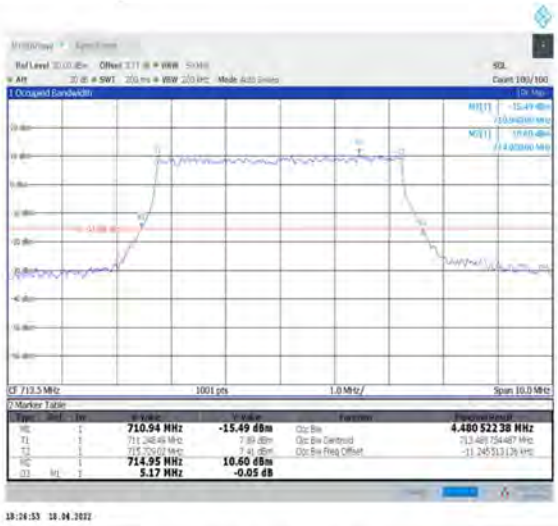
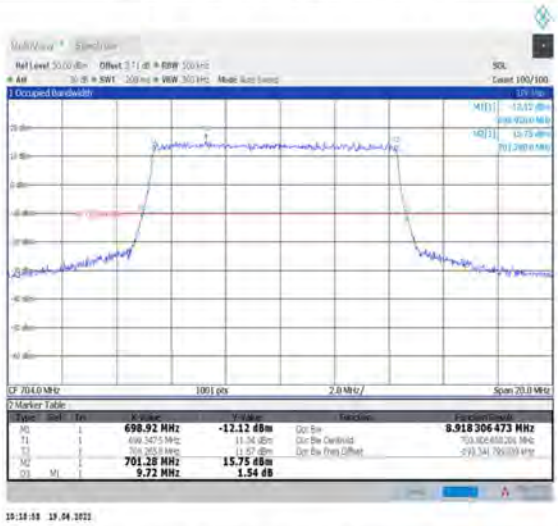


1-N12--15-5-H-8-CP-64QAM-Outer_Full-25@0-Ant1-4.481-5.170-≤5-PASS

1-N12--15-5-H-9-CP-256QAM-Outer_Full-25@0-Ant1-4.489-5.190-≤5-PASS



1-N12--15-10-L-1-DFT-QPSK-Outer_Full-50@0-Ant1-8.918-9.720-≤10-PASS

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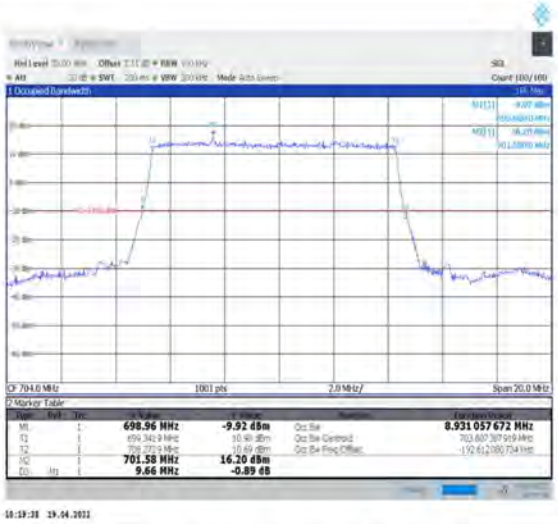

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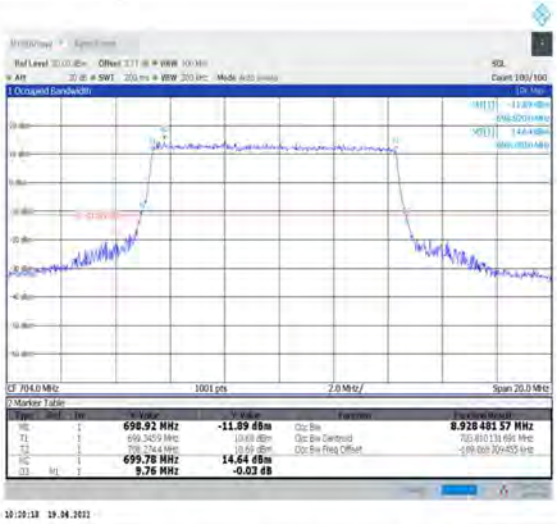

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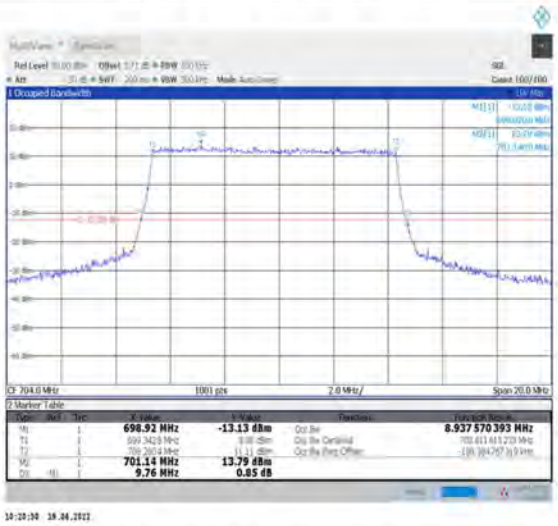

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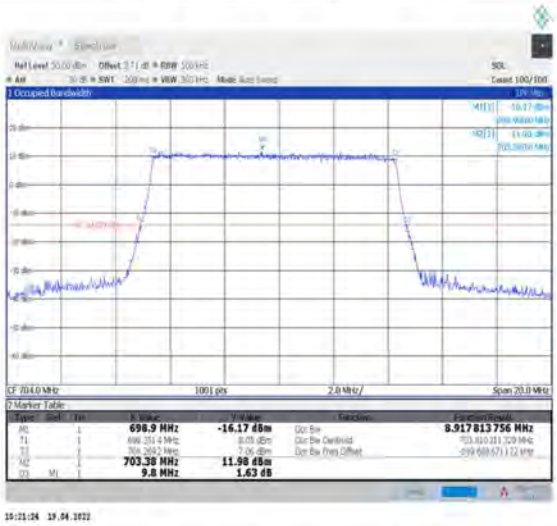

1-N12--15-10-L-5-DFT-256QAM-Outer_Full-50@0-Ant1-8.918-9.800-≤10-PASS

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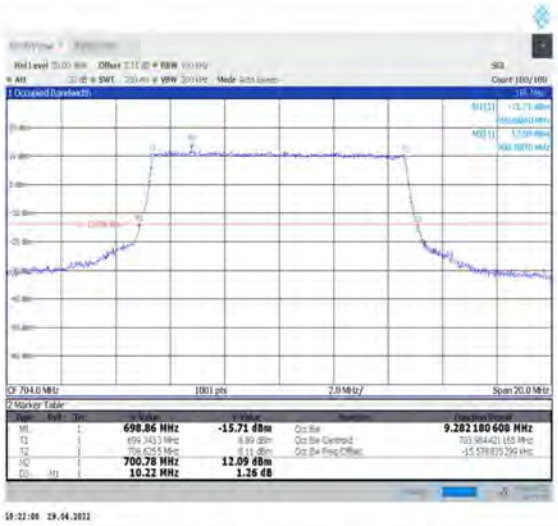
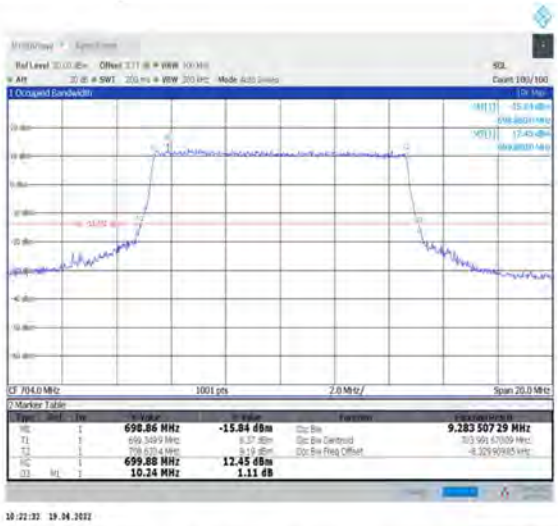
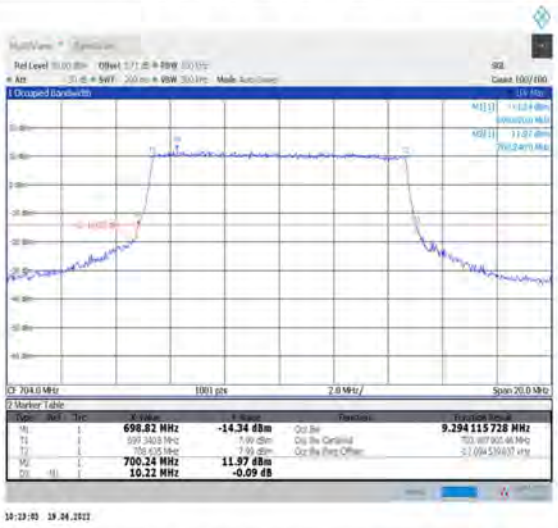


1-N12--15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant1-9.282-10.220-≤10-PASS



1-N12--15-10-L-7-CP-16QAM-Outer_Full-52@0-Ant1-9.284-10.240-≤10-PASS



1-N12--15-10-L-8-CP-64QAM-Outer_Full-52@0-Ant1-9.294-10.220-≤10-PASS

1-N12--15-10-L-9-CP-256QAM-Outer_Full-52@0-Ant1-9.284-10.140-≤10-PASS

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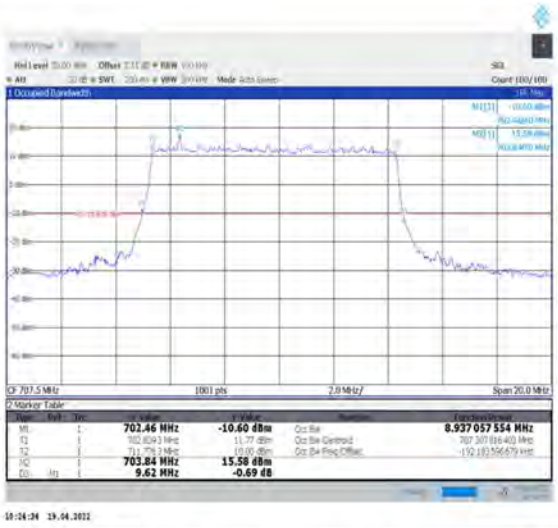
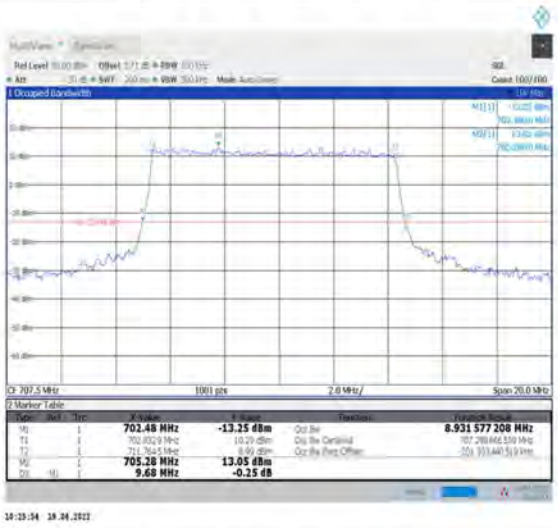


1-N12--15-10-M-1-DFT-QPSK-Outer_Full-50@0-Ant1-8.937-9.620-≤10-PASS

1-N12--15-10-M-2-DFT-PI2BPSK-Outer_Full-50@0-Ant1-8.945-9.620-≤10-PASS



1-N12--15-10-M-3-DFT-16QAM-Outer_Full-50@0-Ant1-8.932-9.680-≤10-PASS

1-N12--15-10-M-4-DFT-64QAM-Outer_Full-50@0-Ant1-8.927-9.660-≤10-PASS

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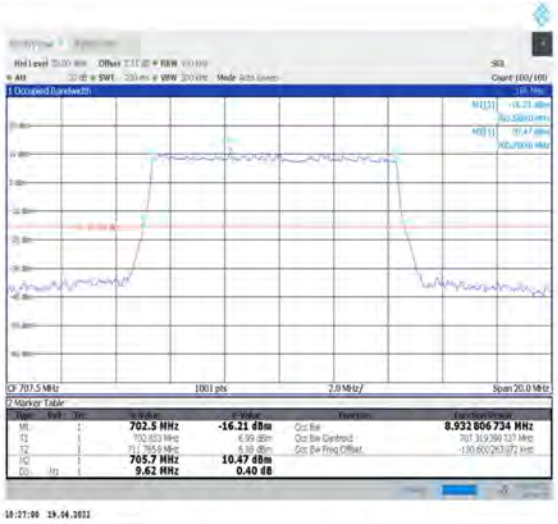

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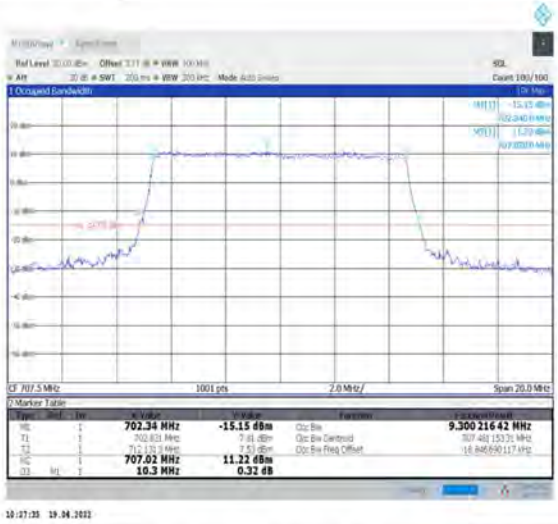

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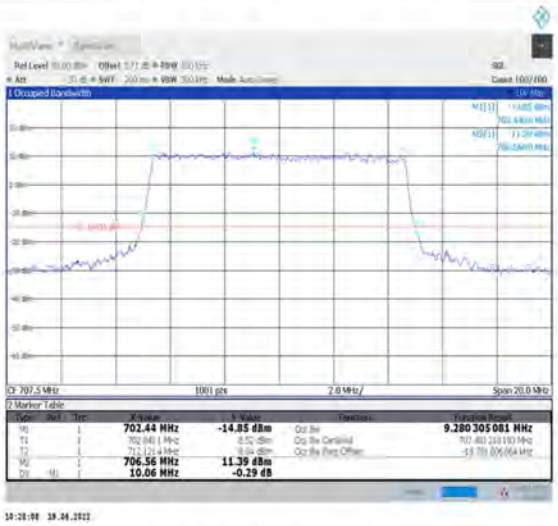
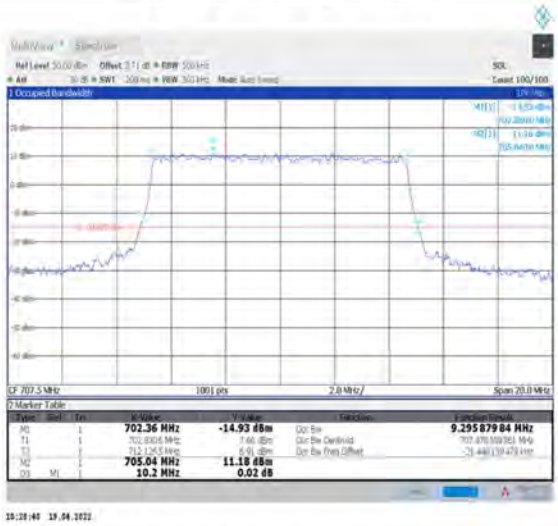


1-N12--15-10-M-7-CP-16QAM-Outer_Full-52@0-Ant1-9.28-10.060-≤10-PASS



1-N12--15-10-M-8-CP-64QAM-Outer_Full-52@0-Ant1-9.296-10.200-≤10-PASS

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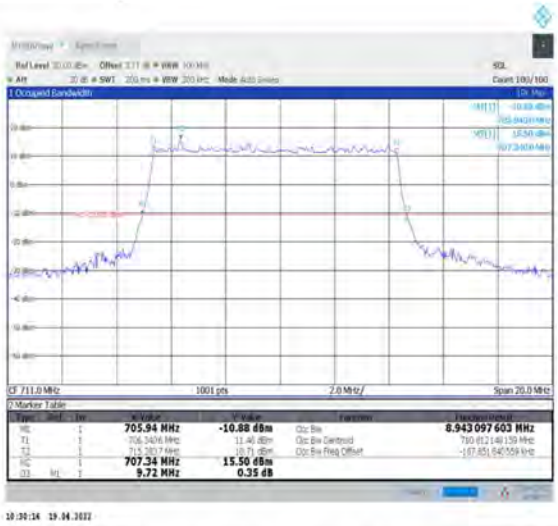
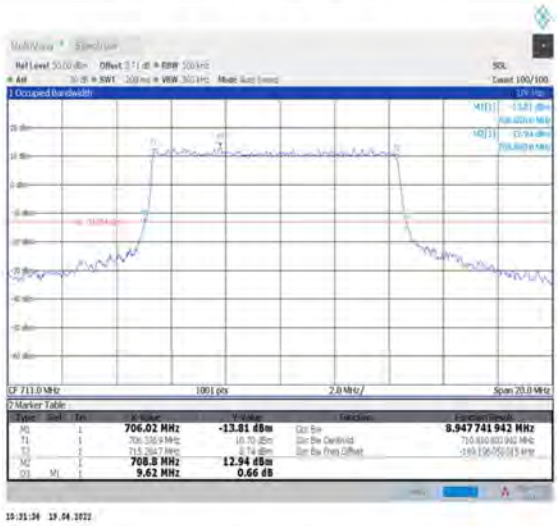
1-N12--15-10-M-9-CP-256QAM-Outer_Full-52@0-Ant1-9.285-10.100-≤10-PASS



1-N12--15-10-H-1-DFT-QPSK-Outer_Full-50@0-Ant1-8.943-9.720-≤10-PASS

1-N12--15-10-H-2-DFT-PI2BPSK-Outer_Full-50@0-Ant1-8.941-9.840-≤10-PASS



1-N12--15-10-H-3-DFT-16QAM-Outer_Full-50@0-Ant1-8.948-9.620-≤10-PASS

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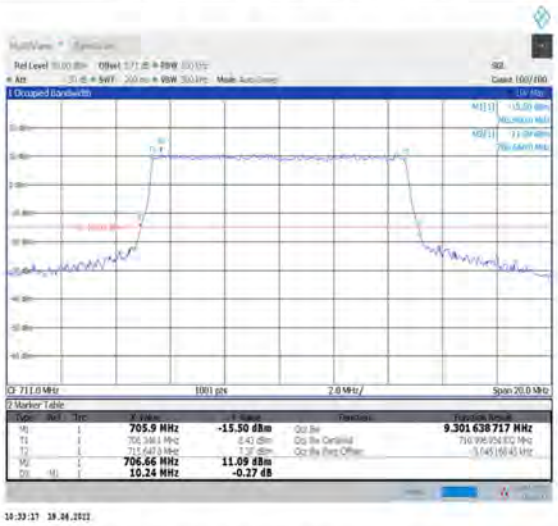
1-N12--15-10-H-4-DFT-64QAM-Outer_Full-50@0-Ant1-8.939-9.740-≤10-PASS

1-N12--15-10-H-5-DFT-256QAM-Outer_Full-50@0-Ant1-8.939-9.680-≤10-PASS



1-N12--15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant1-9.302-10.240-≤10-PASS

1-N12--15-10-H-7-CP-16QAM-Outer_Full-52@0-Ant1-9.287-10.240-≤10-PASS

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1-N12--15-10-H-8-CP-64QAM-Outer_Full-52@0-Ant1-9.319-10.260-≤10-PASS

1-N12--15-10-H-9-CP-256QAM-Outer_Full-52@0-Ant1-9.305-10.200-≤10-PASS

1-N12--15-15-L-1-DFT-QPSK-Outer_Full-75@0-Ant1-13.488-14.460-≤15-PASS

1-N12--15-15-L-2-DFT-PI2BPSK-Outer_Full-75@0-Ant1-13.401-14.340-≤15-PASS

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1-N12--15-15-L-3-DFT-16QAM-Outer_Full-75@0-Ant1-13.428-14.400-≤15-PASS

1-N12--15-15-L-4-DFT-64QAM-Outer_Full-75@0-Ant1-13.411-14.490-≤15-PASS

1-N12--15-15-L-5-DFT-256QAM-Outer_Full-75@0-Ant1-13.416-14.490-≤15-PASS

1-N12--15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant1-14.115-15.240-≤15-PASS

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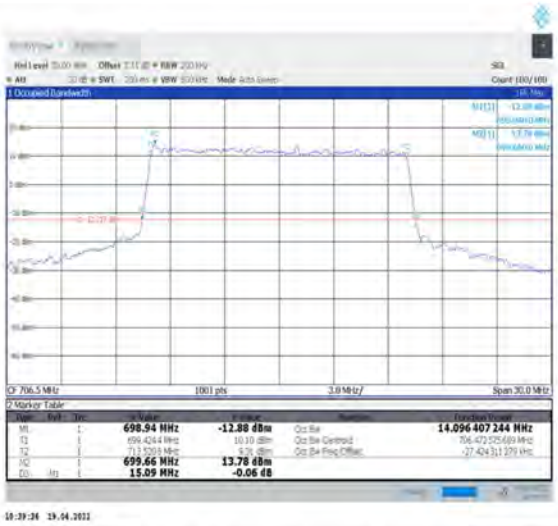

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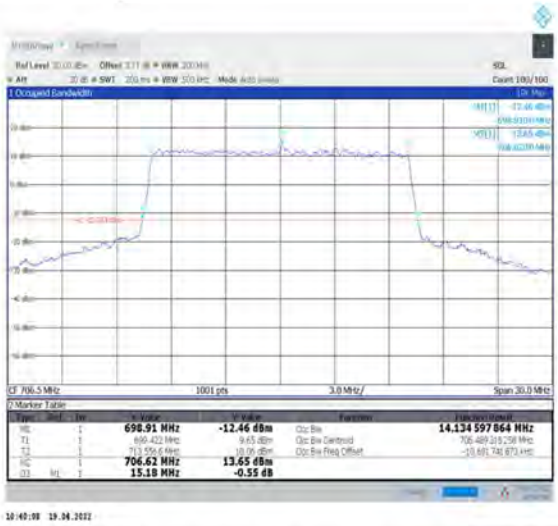

1-N12--15-15-L-8-CP-64QAM-Outer_Full-79@0-Ant1-14.135-15.180-≤15-PASS

1-N12--15-15-L-9-CP-256QAM-Outer_Full-79@0-Ant1-14.125-15.240-≤15-PASS

1-N12--15-15-M-1-DFT-QPSK-Outer_Full-75@0-Ant1-13.492-14.430-≤15-PASS

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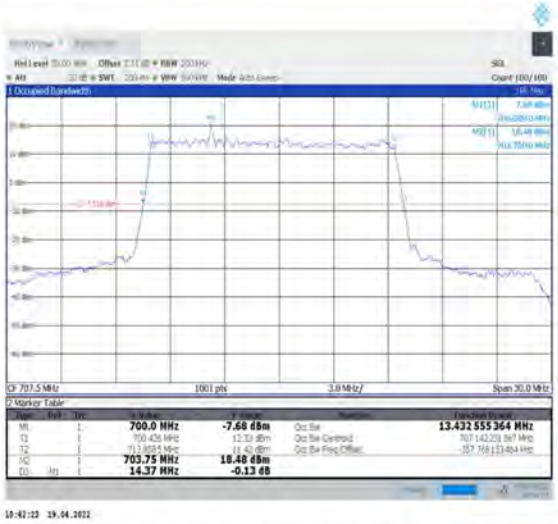

1-N12--15-15-M-2-DFT-PI2BPSK-Outer_Full-75@0-Ant1-13.433-14.370-≤15-PASS

1-N12--15-15-M-3-DFT-16QAM-Outer_Full-75@0-Ant1-13.438-14.490-≤15-PASS

1-N12--15-15-M-4-DFT-64QAM-Outer_Full-75@0-Ant1-13.424-14.550-≤15-PASS

1-N12--15-15-M-5-DFT-256QAM-Outer_Full-75@0-Ant1-13.425-14.430-≤15-PASS

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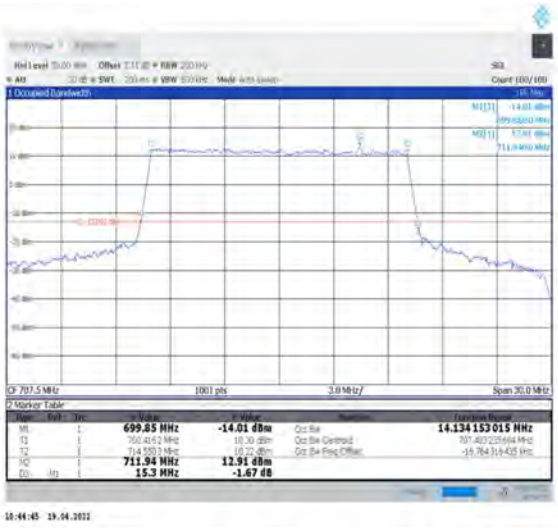

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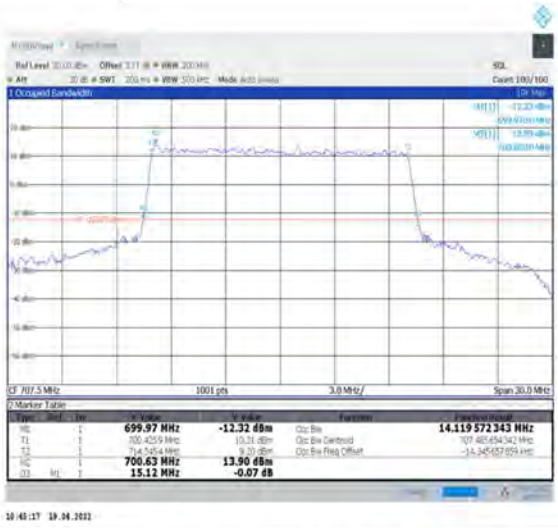

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1-N12--15-15-M-8-CP-64QAM-Outer_Full-79@0-Ant1-14.158-15.210-≤15-PASS

1-N12--15-15-M-9-CP-256QAM-Outer_Full-79@0-Ant1-14.147-15.270-≤15-PASS

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1-N12--15-15-H-1-DFT-QPSK-Outer_Full-75@0-Ant1-13.5-14.460-≤15-PASS

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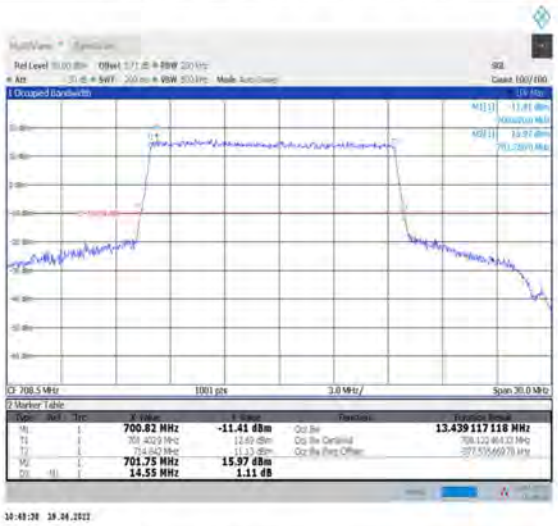

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1-N12--15-15-H-4-DFT-64QAM-Outer_Full-75@0-Ant1-13.416-14.490-≤15-PASS

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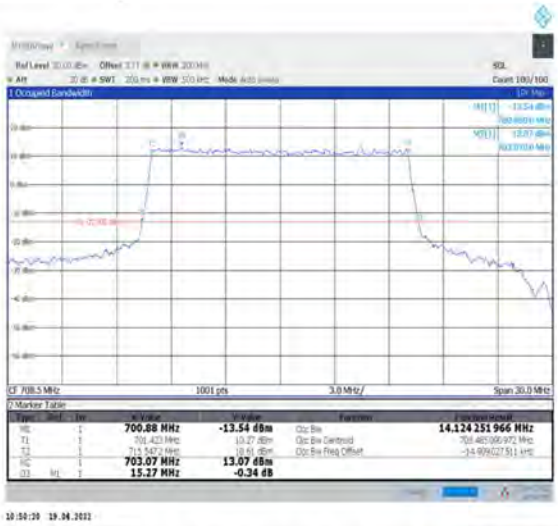

1-N12--15-15-H-6-CP-QPSK-Outer_Full-79@0-Ant1-14.124-15.270-≤15-PASS

1-N12--15-15-H-7-CP-16QAM-Outer_Full-79@0-Ant1-14.124-15.240-≤15-PASS

1-N12--15-15-H-8-CP-64QAM-Outer_Full-79@0-Ant1-14.143-15.090-≤15-PASS

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1-N12--15-15-H-9-CP-256QAM-Outer_Full-79@0-Ant1-14.145-15.270-≤15-PASS

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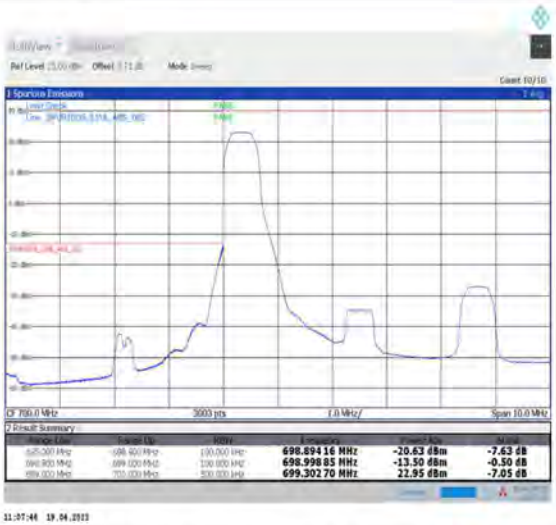
Band Edge for SA

Test Graphs



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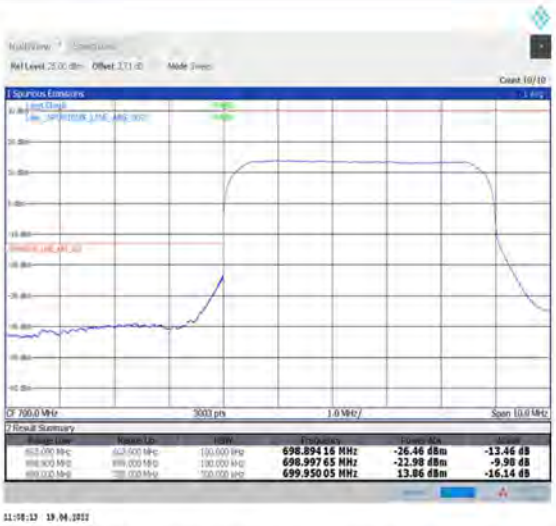
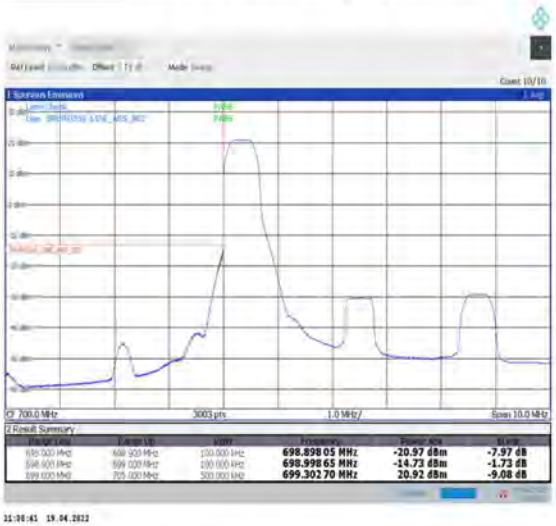


1-N12--15-5-L-3-DFT-PI2BPSK-Outer_Full-25@0-Ant1-PASS-see graph



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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1-N12--15-5-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@24-Ant1-PASS-see graph

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1-N12--15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-PASS-see graph

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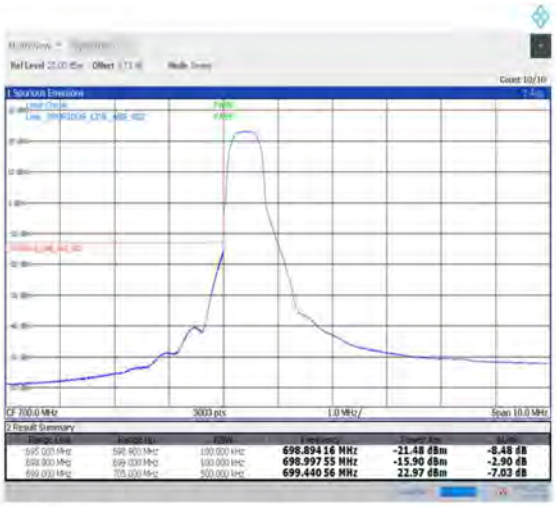
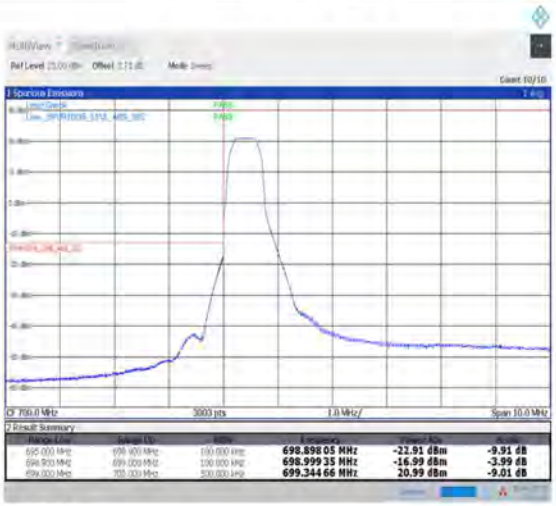


1-N12--15-10-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

1-N12--15-10-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-PASS-see graph



1-N12--15-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

1-N12--15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant1-PASS-see graph

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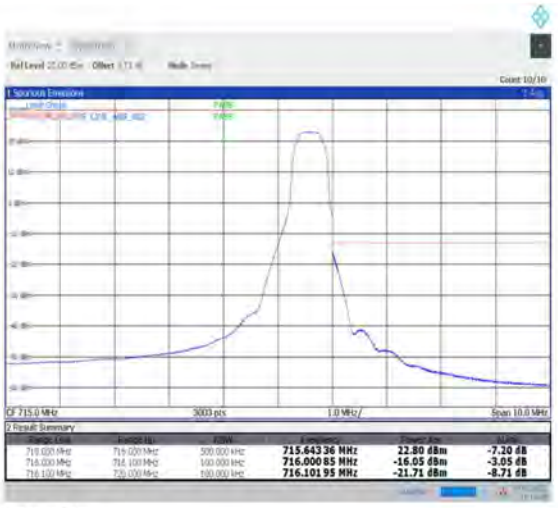

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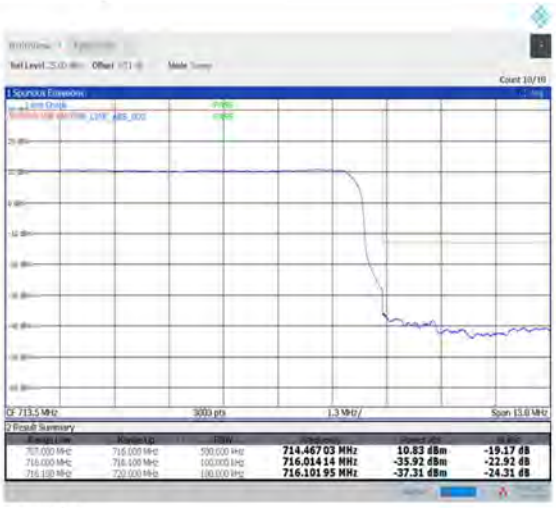

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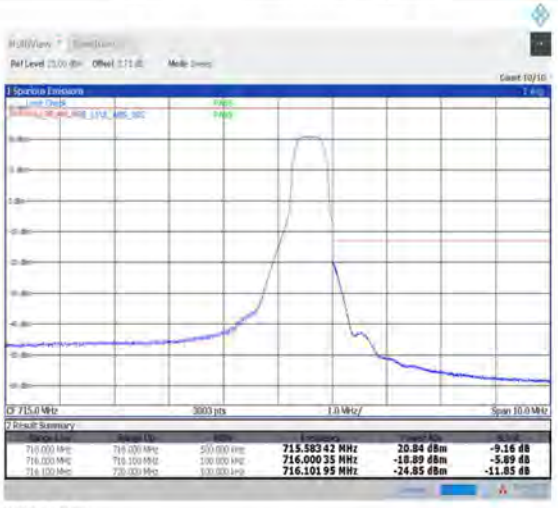

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1-N12--15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant1-PASS-see graph

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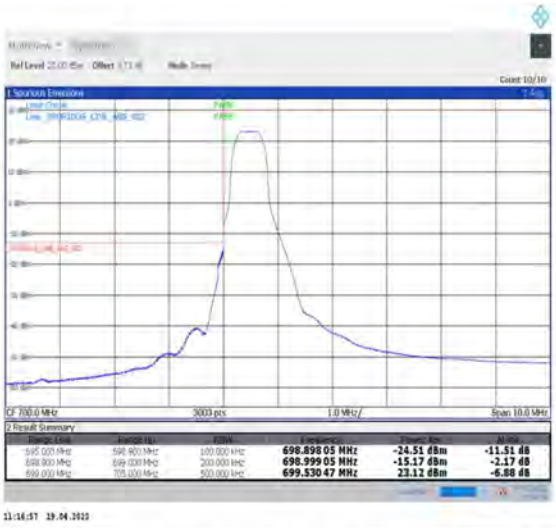
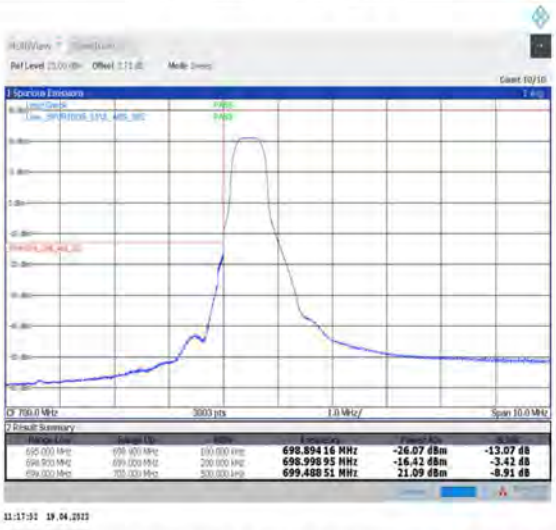


1-N12--15-15-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

1-N12--15-15-L-3-DFT-PI2BPSK-Outer_Full-75@0-Ant1-PASS-see graph



1-N12--15-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

1-N12--15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant1-PASS-see graph

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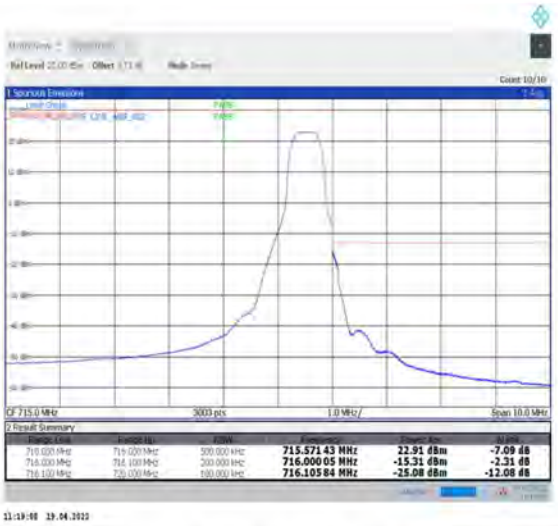

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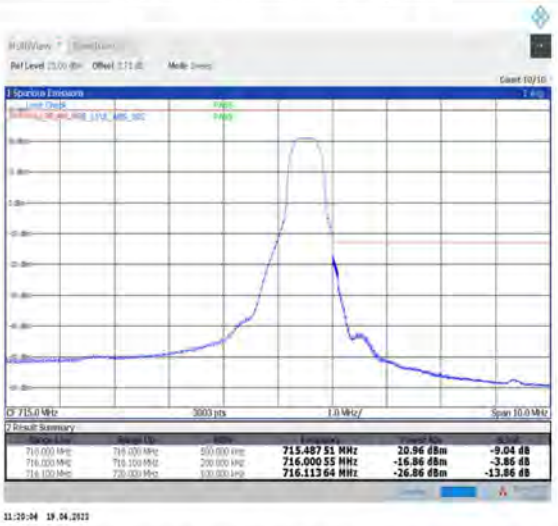

1-N12--15-15-H-5-CP-QPSK-Edge_1RB_Right-1@78-Ant1-PASS-see graph

1-N12--15-15-H-6-CP-QPSK-Outer_Full-79@0-Ant1-PASS-see graph

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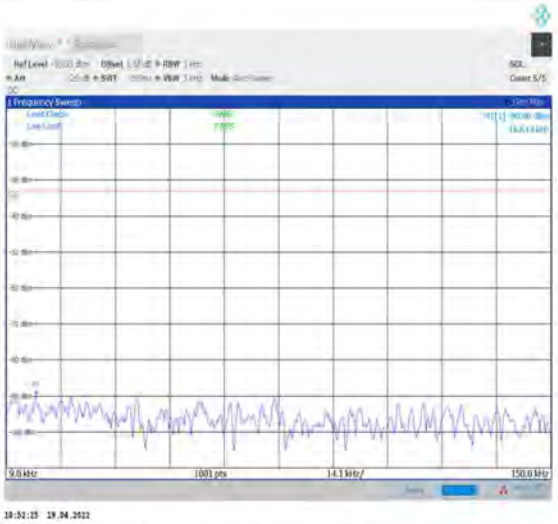
Test Graphs



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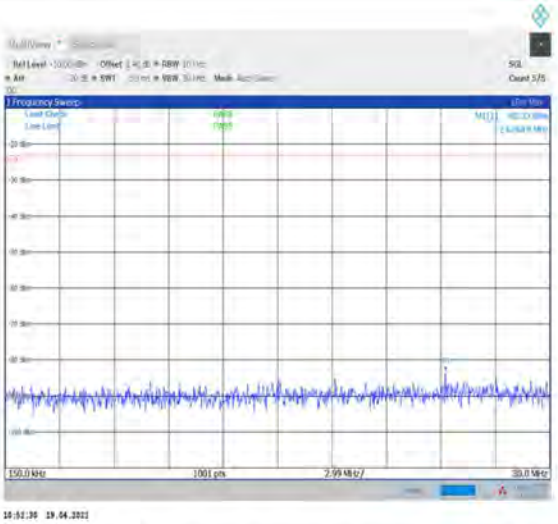

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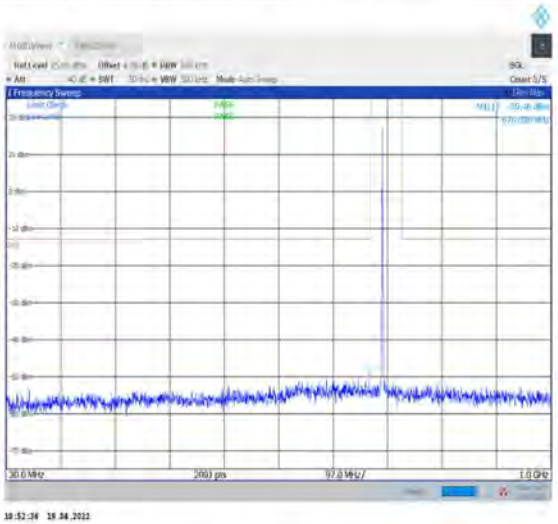

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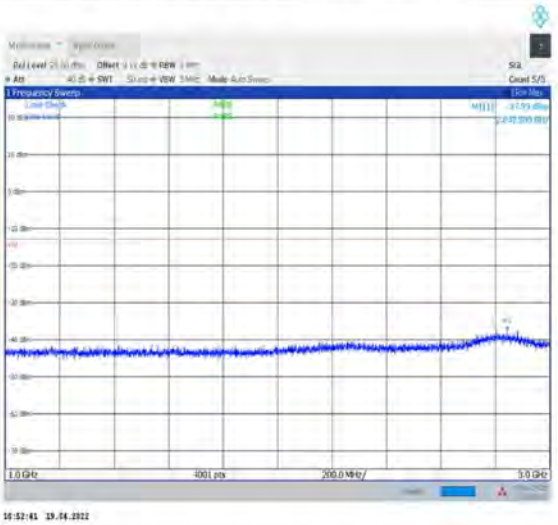

1-N12--15-15-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant1--37.99--13-PASS

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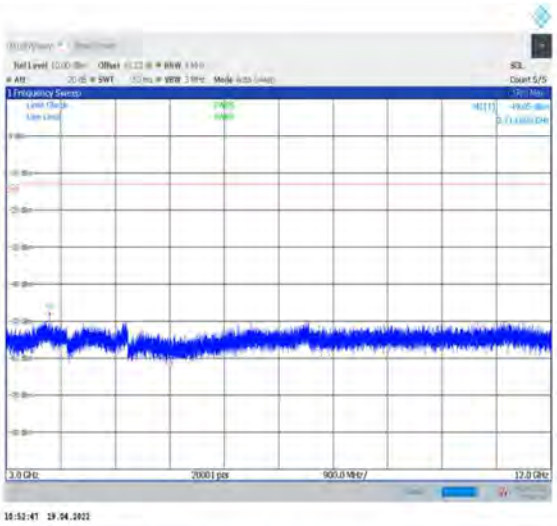

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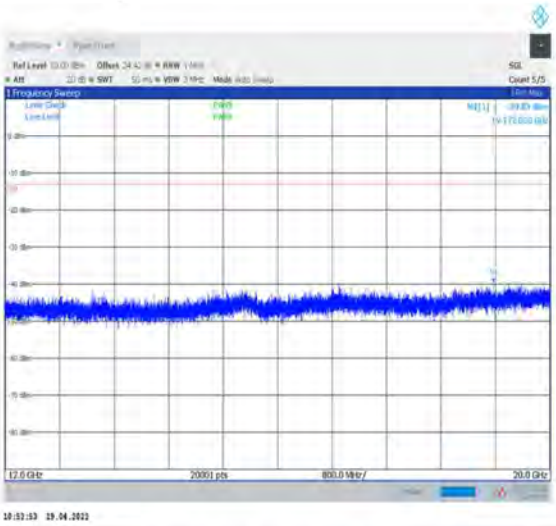

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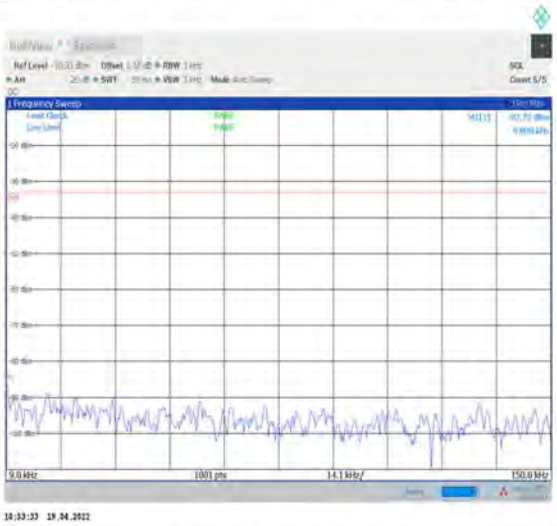

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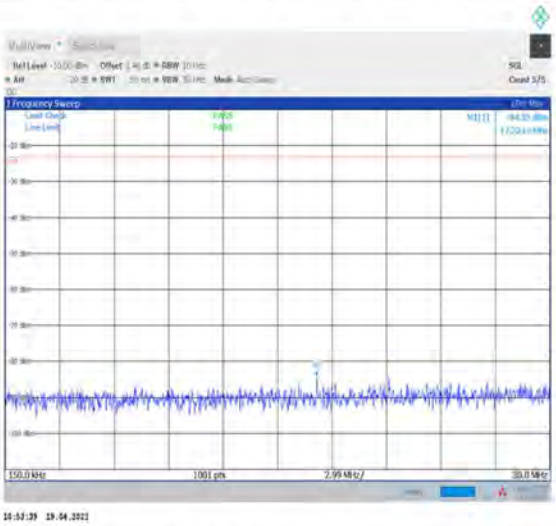

1-N12--15-15-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1--84.35--23-PASS

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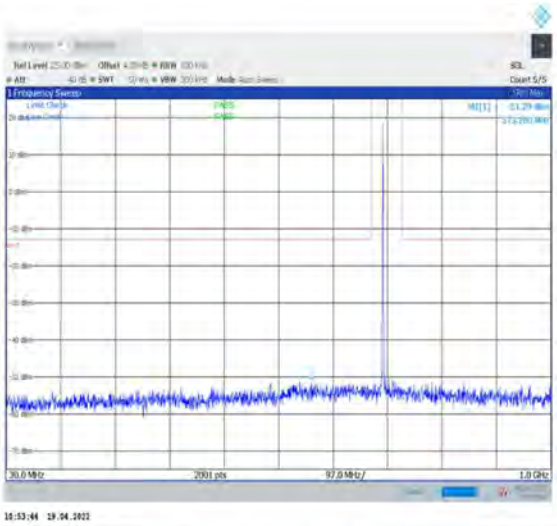

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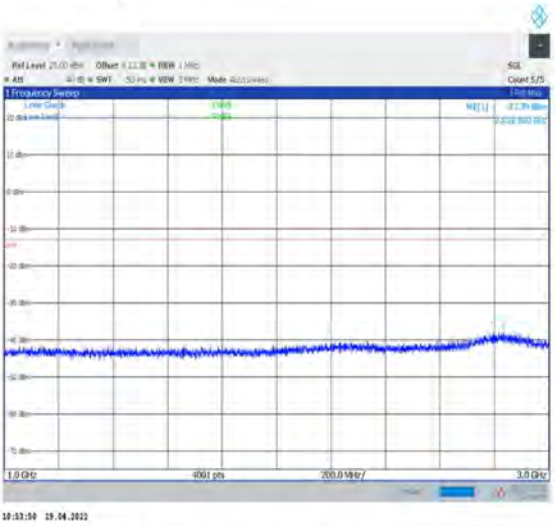

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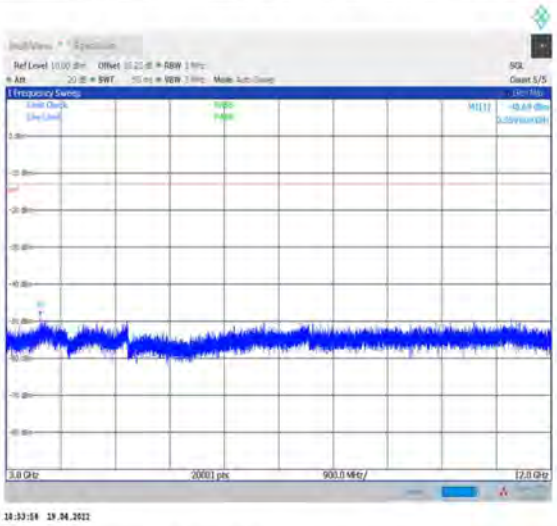

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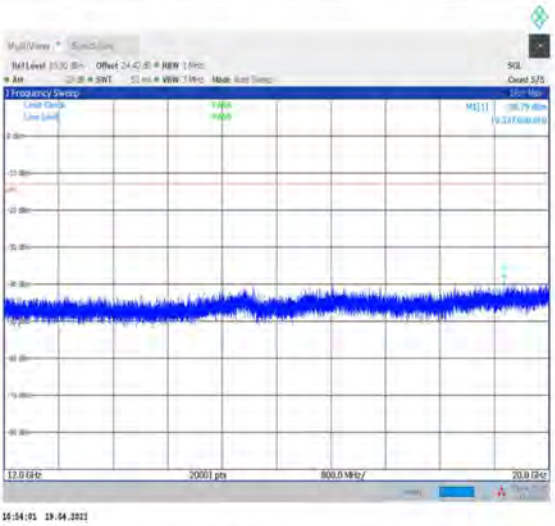

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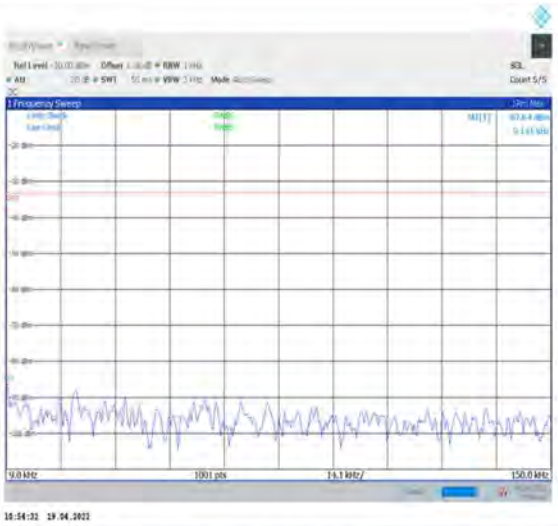

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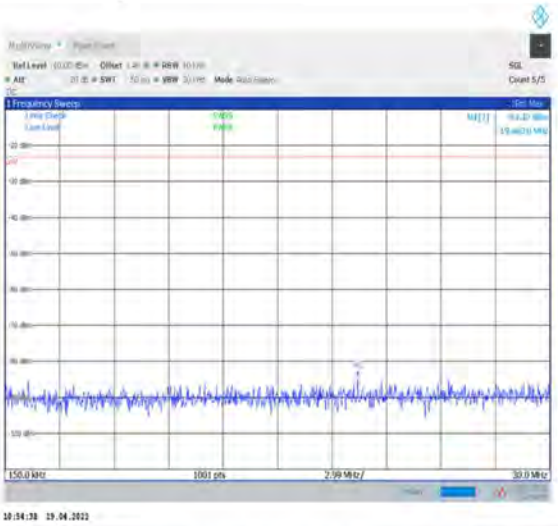

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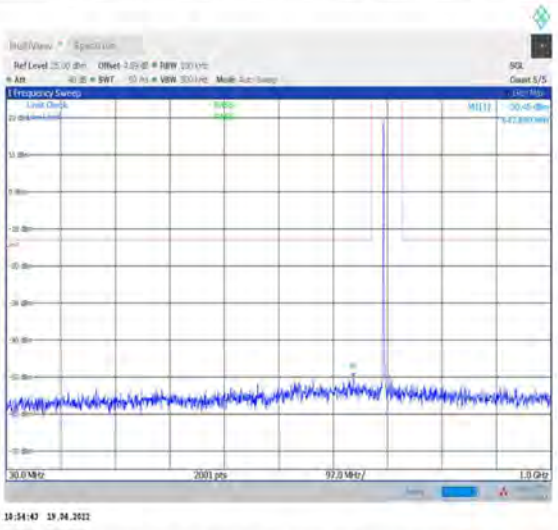

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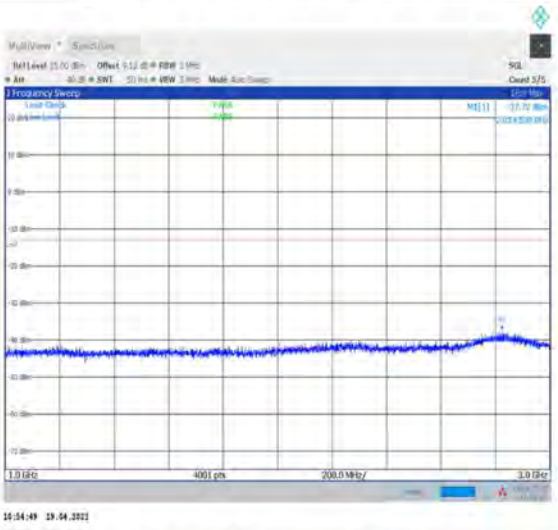

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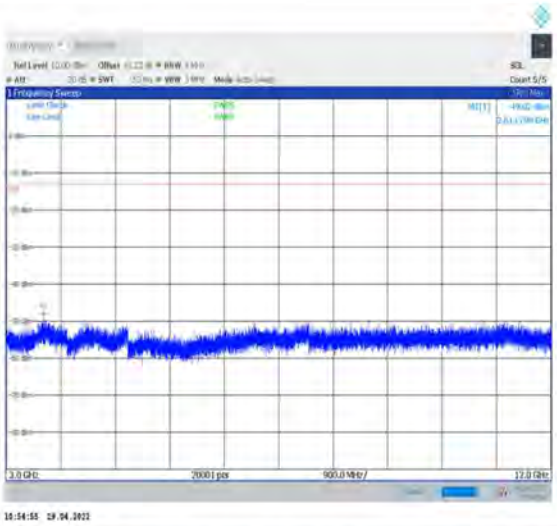	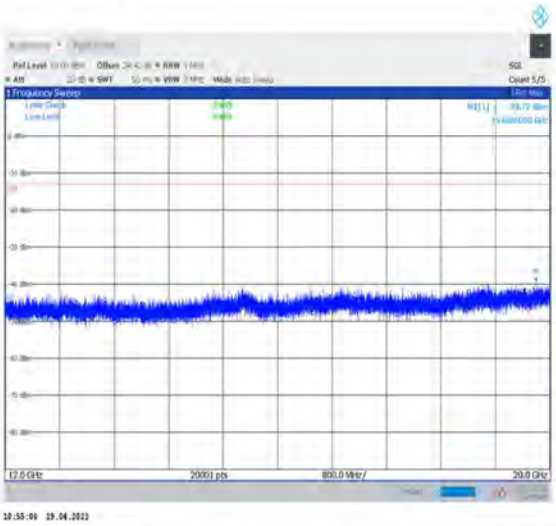
1-N12--15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant1--49.02--13-PASS	1-N12--15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-20000-Ant1--39.72--13-PASS

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Field Strength of Spurious Radiation

Test Band = SA Band 12_ 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	1399.68	53.45	-118.59	-65.14	-13.00	52.14	263	357	Horizontal
2	2099.52	53.42	-116.04	-62.62	-13.00	49.62	251	175	Horizontal
3	2799.36	51.05	-113.02	-61.97	-13.00	48.97	175	357	Horizontal
4	3499.2	50.03	-111.91	-61.88	-13.00	48.88	265	175	Horizontal
5	4199.04	48.48	-109.45	-60.97	-13.00	47.97	284	298	Horizontal
6	4898.88	50.83	-108.05	-57.22	-13.00	44.22	144	50	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.68	53.41	-118.59	-65.18	-13.00	52.18	263	76	Vertical
2	2099.52	51.49	-116.04	-64.55	-13.00	51.55	241	278	Vertical
3	2799.36	51.87	-113.02	-61.15	-13.00	48.15	176	123	Vertical
4	3499.2	51.64	-111.91	-60.27	-13.00	47.27	284	360	Vertical
5	4199.04	48.53	-109.45	-60.92	-13.00	47.92	166	310	Vertical
6	4898.88	51.48	-108.05	-56.57	-13.00	43.57	324	295	Vertical

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Test Band = SA Band 12_ 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	1401.68	51.71	-118.58	-66.87	-13.00	53.87	251	112	Horizontal
2	2102.52	52.40	-116.03	-63.63	-13.00	50.63	142	86	Horizontal
3	2803.36	50.41	-113.01	-62.60	-13.00	49.60	262	33	Horizontal
4	3504.2	51.90	-111.89	-59.99	-13.00	46.99	284	96	Horizontal
5	4205.04	48.71	-109.44	-60.73	-13.00	47.73	176	55	Horizontal
6	4905.88	49.83	-108.03	-58.20	-13.00	45.20	265	127	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1401.68	52.26	-118.58	-66.32	-13.00	53.32	263	155	Vertical
2	2102.52	52.84	-116.03	-63.19	-13.00	50.19	251	314	Vertical
3	2803.36	51.80	-113.01	-61.21	-13.00	48.21	174	353	Vertical
4	3504.2	50.49	-111.89	-61.40	-13.00	48.40	286	62	Vertical
5	4205.04	49.27	-109.44	-60.17	-13.00	47.17	264	187	Vertical
6	4905.88	51.04	-108.03	-56.99	-13.00	43.99	144	283	Vertical

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Test Band = SA Band 12_ 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	1403.5556	63.64	-118.58	-54.94	-13.00	41.94	263	357	Horizontal
2	2104.4444	79.39	-116.02	-36.63	-13.00	23.63	251	313	Horizontal
3	2807.36	51.73	-113.00	-61.27	-13.00	48.27	174	76	Horizontal
4	3509.2	50.50	-111.88	-61.38	-13.00	48.38	286	0	Horizontal
5	4211.04	48.86	-109.43	-60.57	-13.00	47.57	264	266	Horizontal
6	4912.88	49.67	-108.00	-58.33	-13.00	45.33	188	156	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1403.68	52.88	-118.58	-65.70	-13.00	52.70	142	313	Vertical
2	2105.52	53.05	-116.02	-62.97	-13.00	49.97	263	360	Vertical
3	2807.36	51.29	-113.00	-61.71	-13.00	48.71	284	187	Vertical
4	3509.2	50.89	-111.88	-60.99	-13.00	47.99	176	218	Vertical
5	4211.04	48.07	-109.43	-61.36	-13.00	48.36	264	360	Vertical
6	4912.88	50.35	-108.00	-57.65	-13.00	44.65	188	77	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	-1.600000	-0.002261	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	VN	NT	-3.000000	-0.004240	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	VL	NT	-2.800000	-0.003958	PASS
N12	15	15	CP-QPSK	M	Outer_Full	VH	NT	1.400000	0.001979	PASS
N12	15	15	CP-QPSK	M	Outer_Full	VN	NT	-0.700000	-0.000989	PASS
N12	15	15	CP-QPSK	M	Outer_Full	VL	NT	-0.500000	-0.000707	PASS

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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-30	-1.500000	-0.002120	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-20	-2.400000	-0.003392	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-10	-1.300000	-0.001837	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	0	-0.800000	-0.001131	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	10	-2.800000	-0.003958	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	20	-1.400000	-0.001979	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	30	-3.100000	-0.004382	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	40	-2.400000	-0.003392	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	50	-1.800000	-0.002544	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	-30	-0.100000	-0.000141	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	-20	-1.100000	-0.001555	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	-10	-0.900000	-0.001272	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	0	0.200000	0.000283	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	10	-0.800000	-0.001131	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	20	-1.000000	-0.001413	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	30	-0.600000	-0.000848	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	40	0.000000	0.000000	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	50	-0.200000	-0.000283	PASS

---End of Attachment---

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