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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 h	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

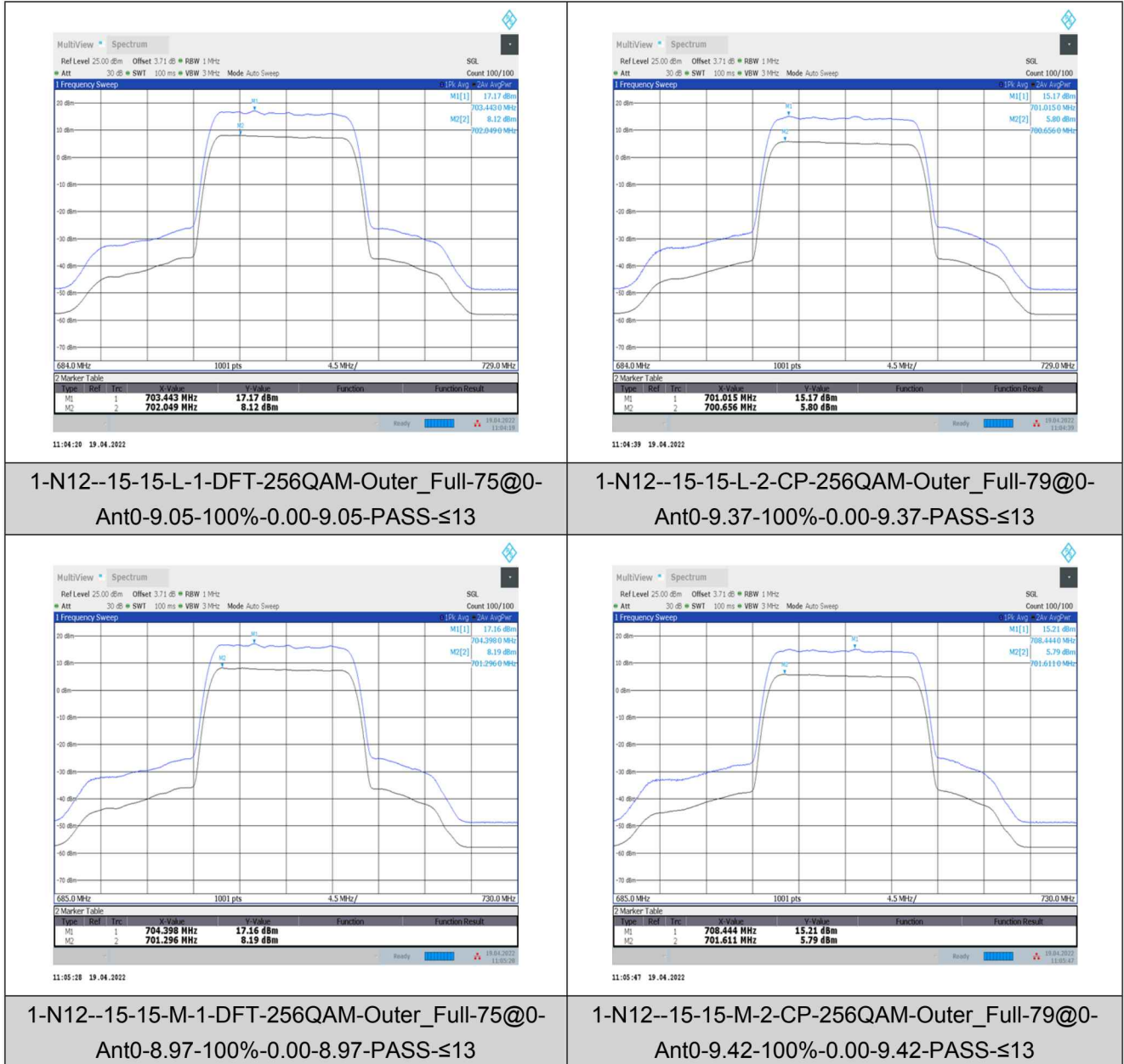


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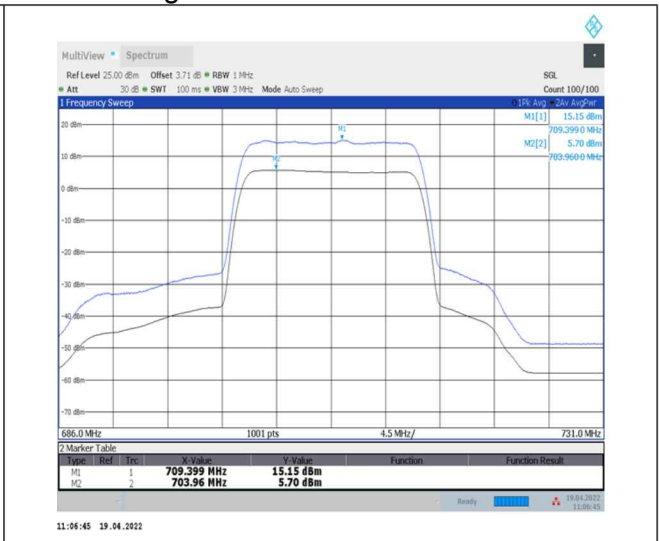
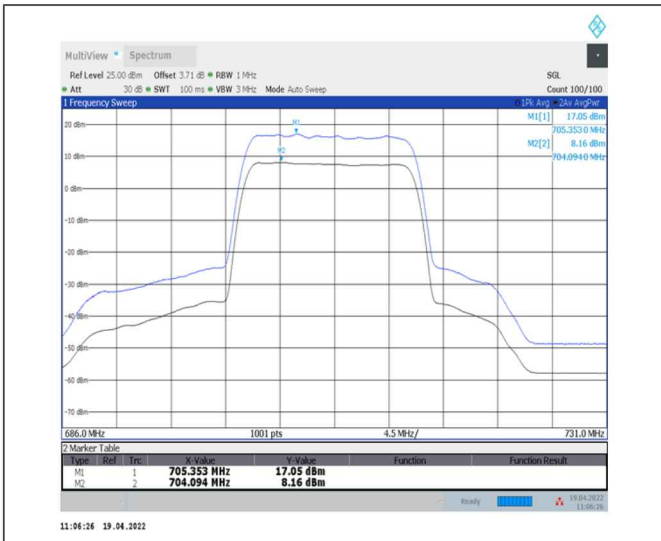
Test Graphs



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1-N12--15-15-H-1-DFT-256QAM-Outer_Full-75@0-Ant0-8.89-100%-0.00-8.89-PASS-≤13

1-N12--15-15-H-2-CP-256QAM-Outer_Full-79@0-Ant0-9.45-100%-0.00-9.45-PASS-≤13



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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
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



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N12	15	10	DFT-256QAM	L	Outer_Full	8.918	9.800	PASS
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



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N12	15	15	CP-16QAM	M	Outer_Full	14.12	15.120	PASS
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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