



Report No.: SEWM2308000313RG02

Rev.: 01

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Appendix B.26

NR Band n71



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

ANT1

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	Limit	Verdict
N71	15	5	DFT-QPSK	L	Inner_1RB_Left	24.22	19.37	34.77	PASS
N71	15	5	DFT-16QAM	L	Inner_1RB_Left	23.50	18.65	34.77	PASS
N71	15	5	DFT-QPSK	M	Inner_1RB_Left	24.33	19.48	34.77	PASS
N71	15	5	DFT-16QAM	M	Inner_1RB_Left	23.59	18.74	34.77	PASS
N71	15	5	DFT-QPSK	H	Inner_1RB_Left	24.18	19.33	34.77	PASS
N71	15	5	DFT-16QAM	H	Inner_1RB_Left	23.29	18.44	34.77	PASS
N71	15	10	DFT-QPSK	L	Inner_1RB_Left	24.12	19.27	34.77	PASS
N71	15	10	DFT-16QAM	L	Inner_1RB_Left	23.28	18.43	34.77	PASS
N71	15	10	DFT-QPSK	M	Inner_1RB_Left	24.28	19.43	34.77	PASS
N71	15	10	DFT-16QAM	M	Inner_1RB_Left	23.43	18.58	34.77	PASS
N71	15	10	DFT-QPSK	H	Inner_1RB_Left	24.22	19.37	34.77	PASS
N71	15	10	DFT-16QAM	H	Inner_1RB_Left	23.44	18.59	34.77	PASS
N71	15	15	DFT-QPSK	L	Inner_1RB_Left	24.11	19.26	34.77	PASS
N71	15	15	DFT-16QAM	L	Inner_1RB_Left	23.45	18.60	34.77	PASS
N71	15	15	DFT-QPSK	M	Inner_1RB_Left	24.29	19.44	34.77	PASS
N71	15	15	DFT-16QAM	M	Inner_1RB_Left	23.46	18.61	34.77	PASS
N71	15	15	DFT-QPSK	H	Inner_1RB_Left	24.13	19.28	34.77	PASS
N71	15	15	DFT-16QAM	H	Inner_1RB_Left	23.48	18.63	34.77	PASS
N71	15	20	DFT-PI2BPSK	L	Inner_1RB_Left	24.34	19.49	34.77	PASS
N71	15	20	DFT-PI2BPSK	L	Inner_1RB_Right	24.35	19.50	34.77	PASS
N71	15	20	DFT-PI2BPSK	L	Outer_Full	24.02	19.17	34.77	PASS
N71	15	20	DFT-QPSK	L	Inner_1RB_Left	24.59	19.74	34.77	PASS
N71	15	20	DFT-QPSK	L	Inner_1RB_Right	24.64	19.79	34.77	PASS
N71	15	20	DFT-QPSK	L	Outer_Full	23.38	18.53	34.77	PASS
N71	15	20	DFT-16QAM	L	Inner_1RB_Left	23.41	18.56	34.77	PASS
N71	15	20	DFT-16QAM	L	Inner_1RB_Right	23.38	18.53	34.77	PASS
N71	15	20	DFT-16QAM	L	Outer_Full	22.35	17.50	34.77	PASS
N71	15	20	DFT-64QAM	L	Inner_1RB_Left	21.59	16.74	34.77	PASS
N71	15	20	DFT-64QAM	L	Inner_1RB_Right	21.73	16.88	34.77	PASS
N71	15	20	DFT-64QAM	L	Outer_Full	21.97	17.12	34.77	PASS



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N71	15	20	DFT-256QAM	L	Inner_1RB_Left	19.81	14.96	34.77	PASS
N71	15	20	DFT-256QAM	L	Inner_1RB_Right	19.98	15.13	34.77	PASS
N71	15	20	DFT-256QAM	L	Outer_Full	19.99	15.14	34.77	PASS
N71	15	20	DFT-PI2BPSK	M	Inner_1RB_Left	24.31	19.46	34.77	PASS
N71	15	20	DFT-PI2BPSK	M	Inner_1RB_Right	24.34	19.49	34.77	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	23.93	19.08	34.77	PASS
N71	15	20	DFT-QPSK	M	Inner_1RB_Left	24.52	19.67	34.77	PASS
N71	15	20	DFT-QPSK	M	Inner_1RB_Right	24.54	19.69	34.77	PASS
N71	15	20	DFT-QPSK	M	Outer_Full	23.45	18.60	34.77	PASS
N71	15	20	DFT-16QAM	M	Inner_1RB_Left	23.49	18.64	34.77	PASS
N71	15	20	DFT-16QAM	M	Inner_1RB_Right	23.48	18.63	34.77	PASS
N71	15	20	DFT-16QAM	M	Outer_Full	22.44	17.59	34.77	PASS
N71	15	20	DFT-64QAM	M	Inner_1RB_Left	21.61	16.76	34.77	PASS
N71	15	20	DFT-64QAM	M	Inner_1RB_Right	21.54	16.69	34.77	PASS
N71	15	20	DFT-64QAM	M	Outer_Full	21.79	16.94	34.77	PASS
N71	15	20	DFT-256QAM	M	Inner_1RB_Left	20.00	15.15	34.77	PASS
N71	15	20	DFT-256QAM	M	Inner_1RB_Right	20.04	15.19	34.77	PASS
N71	15	20	DFT-256QAM	M	Outer_Full	19.98	15.13	34.77	PASS
N71	15	20	DFT-PI2BPSK	H	Inner_1RB_Left	24.52	19.67	34.77	PASS
N71	15	20	DFT-PI2BPSK	H	Inner_1RB_Right	24.33	19.48	34.77	PASS
N71	15	20	DFT-PI2BPSK	H	Outer_Full	23.96	19.11	34.77	PASS
N71	15	20	DFT-QPSK	H	Inner_1RB_Left	24.72	19.87	34.77	PASS
N71	15	20	DFT-QPSK	H	Inner_1RB_Right	24.60	19.75	34.77	PASS
N71	15	20	DFT-QPSK	H	Outer_Full	23.33	18.48	34.77	PASS
N71	15	20	DFT-16QAM	H	Inner_1RB_Left	23.69	18.84	34.77	PASS
N71	15	20	DFT-16QAM	H	Inner_1RB_Right	23.37	18.52	34.77	PASS
N71	15	20	DFT-16QAM	H	Outer_Full	22.35	17.50	34.77	PASS
N71	15	20	DFT-64QAM	H	Inner_1RB_Left	21.69	16.84	34.77	PASS
N71	15	20	DFT-64QAM	H	Inner_1RB_Right	21.57	16.72	34.77	PASS
N71	15	20	DFT-64QAM	H	Outer_Full	21.76	16.91	34.77	PASS
N71	15	20	DFT-256QAM	H	Inner_1RB_Left	20.15	15.30	34.77	PASS
N71	15	20	DFT-256QAM	H	Inner_1RB_Right	19.90	15.05	34.77	PASS
N71	15	20	DFT-256QAM	H	Outer_Full	19.87	15.02	34.77	PASS



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Peak-to-Average Ratio for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N71	15	20	DFT-256QAM	L	Outer_Full	8.87	≤13	PASS
N71	15	20	CP-256QAM	L	Outer_Full	9.45	≤13	PASS
N71	15	20	DFT-256QAM	M	Outer_Full	8.76	≤13	PASS
N71	15	20	CP-256QAM	M	Outer_Full	9.34	≤13	PASS
N71	15	20	DFT-256QAM	H	Outer_Full	8.81	≤13	PASS
N71	15	20	CP-256QAM	H	Outer_Full	9.41	≤13	PASS

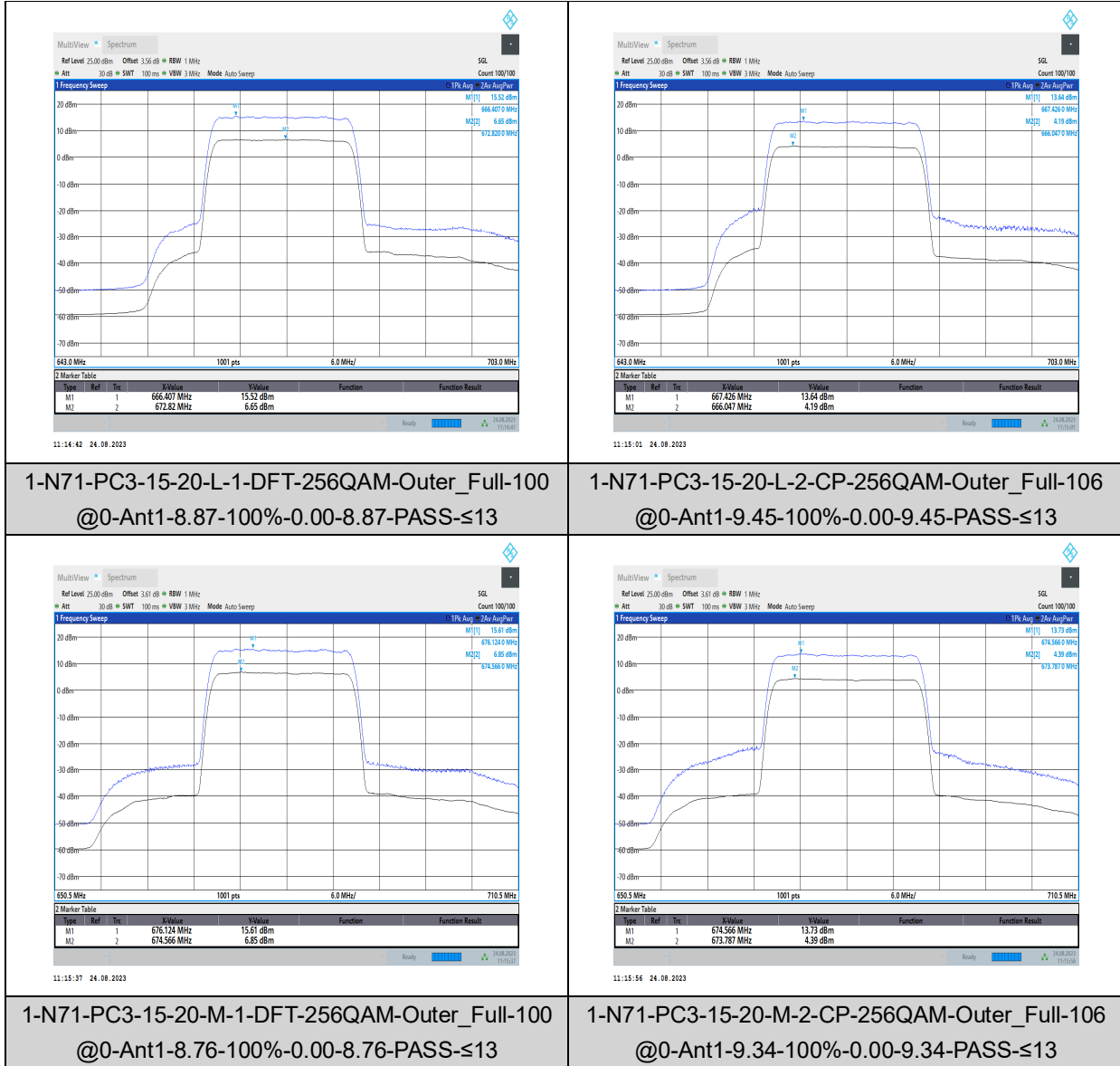


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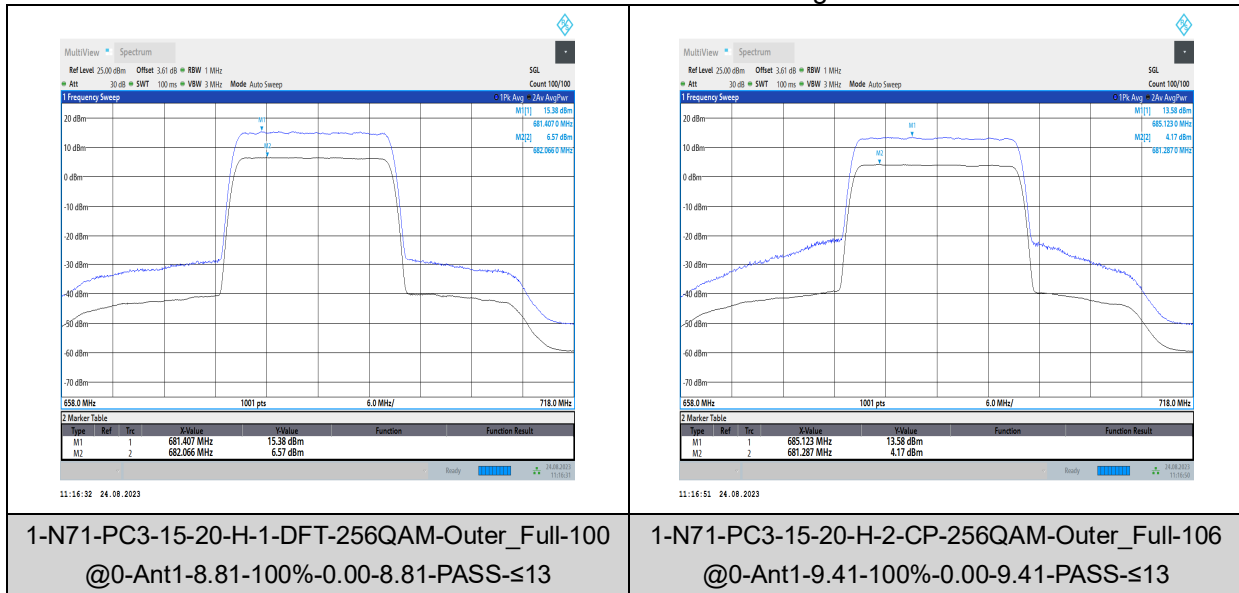
Test Graphs



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1-N71-PC3-15-20-H-1-DFT-256QAM-Outer_Full-100
@0-Ant1-8.81-100%-0.00-8.81-PASS-≤13

1-N71-PC3-15-20-H-2-CP-256QAM-Outer_Full-106
@0-Ant1-9.41-100%-0.00-9.41-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
N71	15	5	DFT-QPSK	M	Outer_Full	4.474	4.810	PASS
N71	15	5	DFT-PI2BPSK	M	Outer_Full	4.461	4.810	PASS
N71	15	5	DFT-16QAM	M	Outer_Full	4.475	4.780	PASS
N71	15	5	DFT-64QAM	M	Outer_Full	4.457	4.740	PASS
N71	15	5	DFT-256QAM	M	Outer_Full	4.468	4.790	PASS
N71	15	5	CP-QPSK	M	Outer_Full	4.48	4.810	PASS
N71	15	5	CP-16QAM	M	Outer_Full	4.473	4.800	PASS
N71	15	5	CP-64QAM	M	Outer_Full	4.466	4.780	PASS
N71	15	5	CP-256QAM	M	Outer_Full	4.477	4.830	PASS
N71	15	10	DFT-QPSK	M	Outer_Full	8.898	9.360	PASS
N71	15	10	DFT-PI2BPSK	M	Outer_Full	8.94	9.400	PASS
N71	15	10	DFT-16QAM	M	Outer_Full	8.925	9.400	PASS
N71	15	10	DFT-64QAM	M	Outer_Full	8.903	9.380	PASS
N71	15	10	DFT-256QAM	M	Outer_Full	8.896	9.320	PASS
N71	15	10	CP-QPSK	M	Outer_Full	9.285	9.760	PASS
N71	15	10	CP-16QAM	M	Outer_Full	9.315	9.740	PASS
N71	15	10	CP-64QAM	M	Outer_Full	9.282	9.780	PASS
N71	15	10	CP-256QAM	M	Outer_Full	9.275	9.740	PASS
N71	15	15	DFT-QPSK	M	Outer_Full	13.418	14.070	PASS
N71	15	15	DFT-PI2BPSK	M	Outer_Full	13.429	14.100	PASS
N71	15	15	DFT-16QAM	M	Outer_Full	13.452	14.130	PASS
N71	15	15	DFT-64QAM	M	Outer_Full	13.427	14.100	PASS
N71	15	15	DFT-256QAM	M	Outer_Full	13.411	14.130	PASS
N71	15	15	CP-QPSK	M	Outer_Full	14.14	14.850	PASS
N71	15	15	CP-16QAM	M	Outer_Full	14.12	14.880	PASS
N71	15	15	CP-64QAM	M	Outer_Full	14.104	14.850	PASS
N71	15	15	CP-256QAM	M	Outer_Full	14.08	14.880	PASS
N71	15	20	DFT-QPSK	M	Outer_Full	17.837	18.600	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	17.89	18.720	PASS
N71	15	20	DFT-16QAM	M	Outer_Full	17.888	18.600	PASS



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N71	15	20	DFT-64QAM	M	Outer_Full	17.881	18.640	PASS
N71	15	20	DFT-256QAM	M	Outer_Full	17.883	18.680	PASS
N71	15	20	CP-QPSK	M	Outer_Full	18.891	19.760	PASS
N71	15	20	CP-16QAM	M	Outer_Full	18.906	19.760	PASS
N71	15	20	CP-64QAM	M	Outer_Full	18.928	19.680	PASS
N71	15	20	CP-256QAM	M	Outer_Full	18.983	19.760	PASS



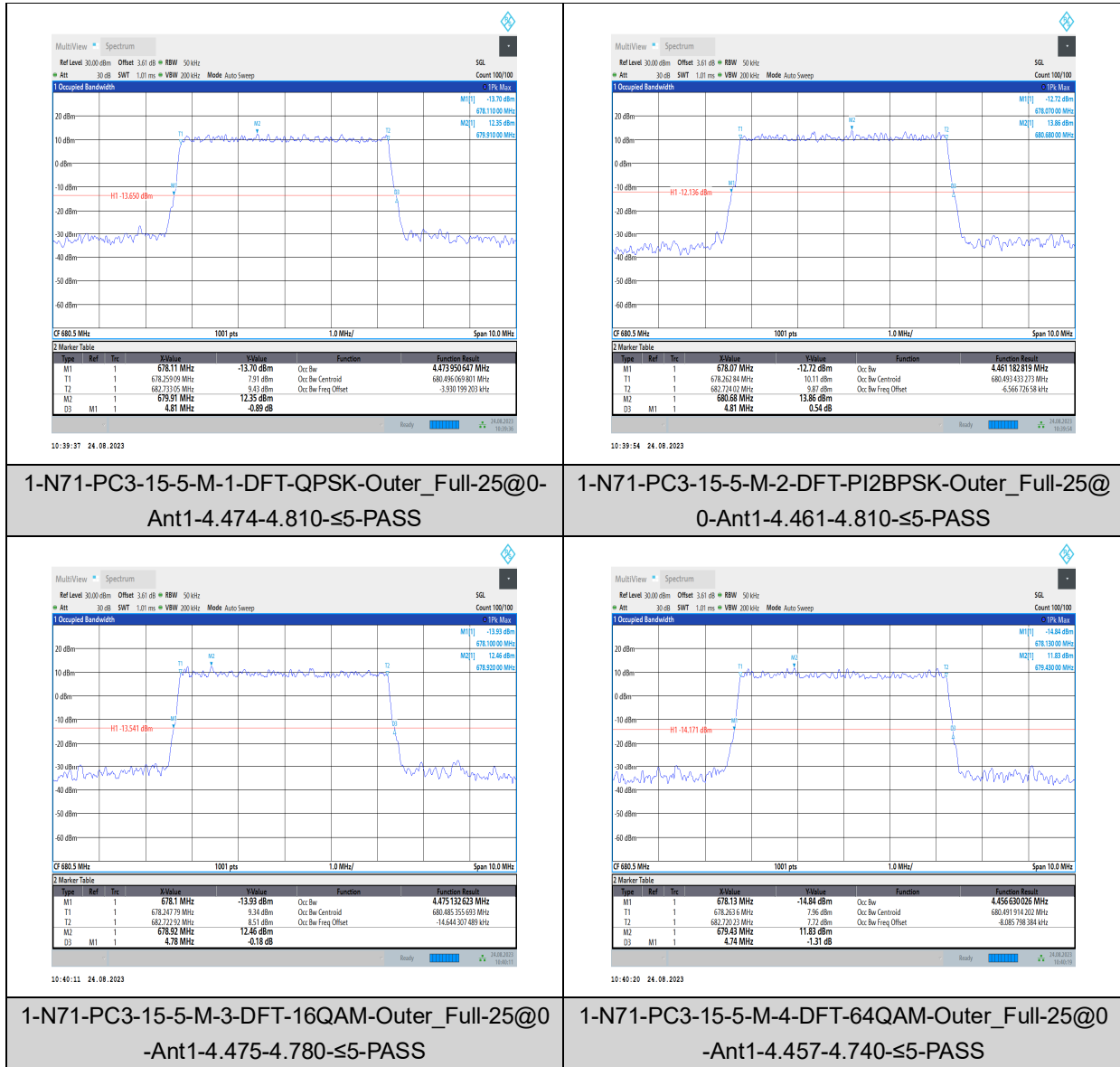
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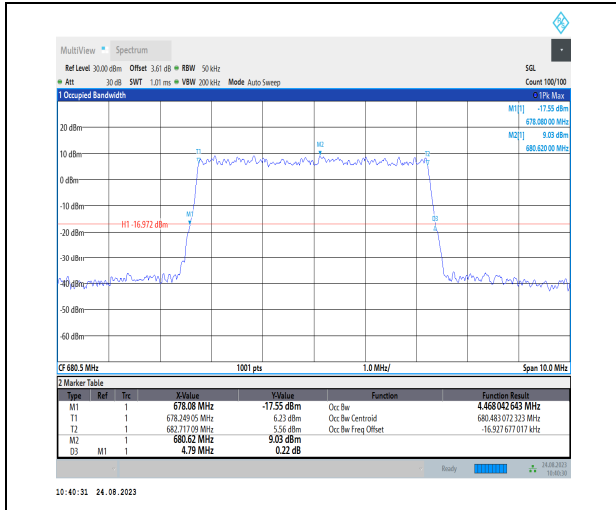
Test Graphs



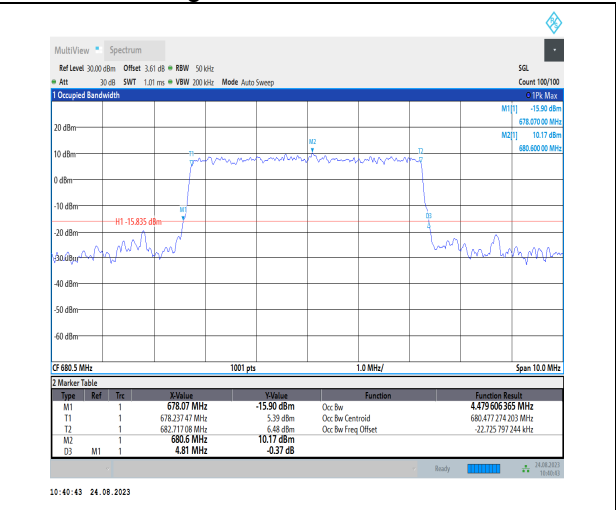
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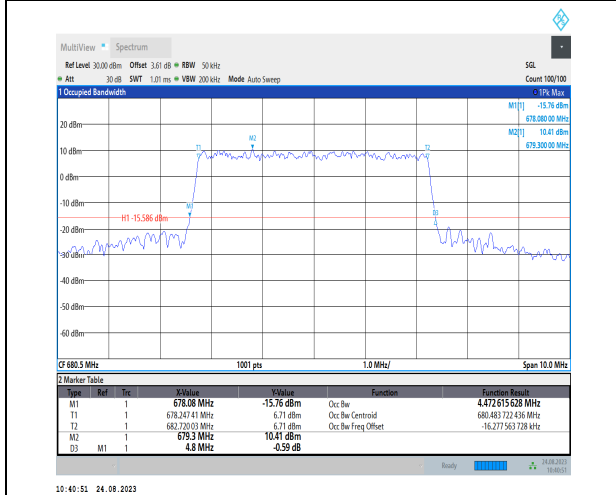
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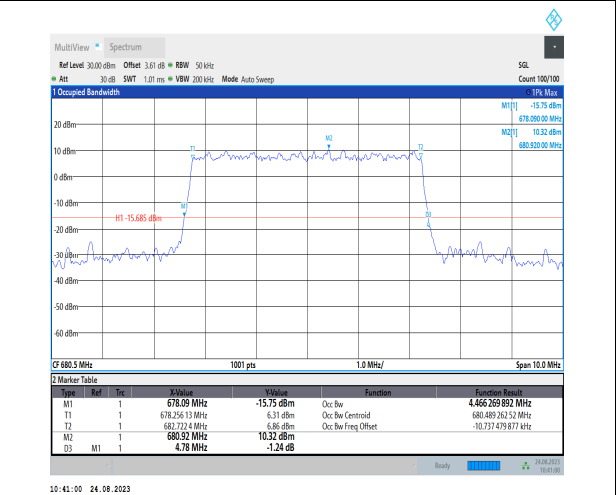
1-N71-PC3-15-5-M-5-DFT-256QAM-Outer_Full-25@
0-Ant1-4.468-4.790-≤5-PASS



1-N71-PC3-15-5-M-6-CP-QPSK-Outer_Full-25@0-A
nt1-4.48-4.810-≤5-PASS



1-N71-PC3-15-5-M-7-CP-16QAM-Outer_Full-25@0-
Ant1-4.473-4.800-≤5-PASS



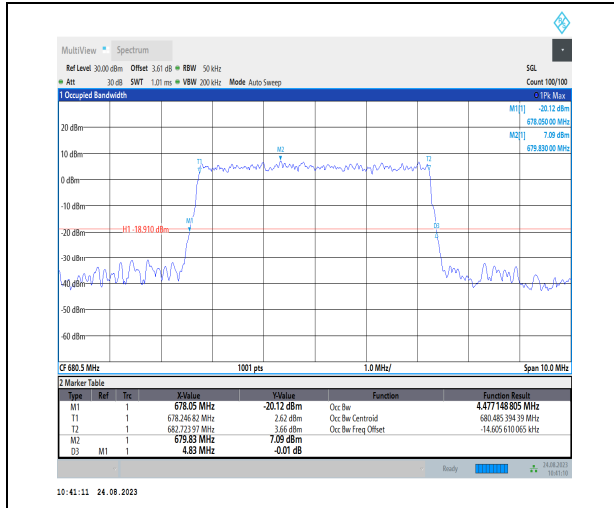
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Ant1-4.466-4.780-≤5-PASS



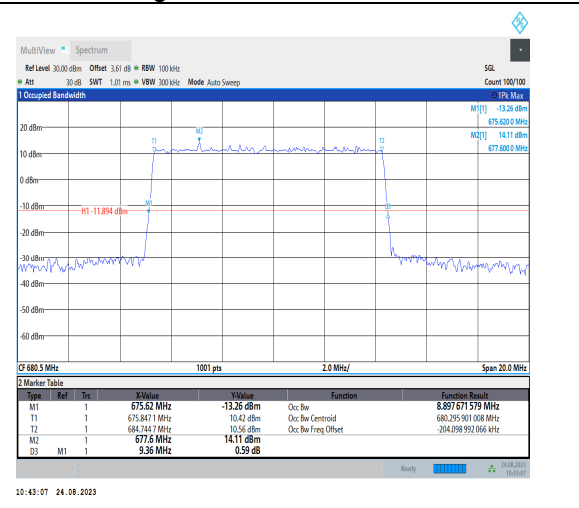
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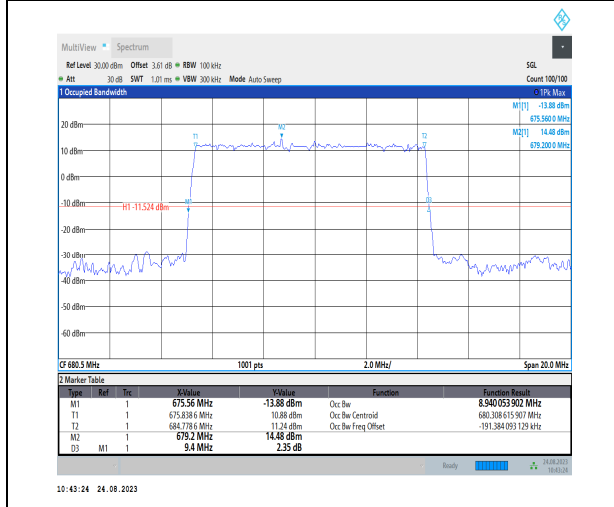
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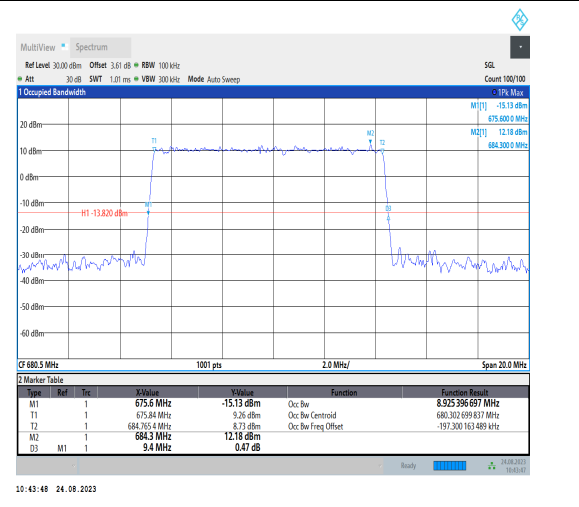
1-N71-PC3-15-5-M-9-CP-256QAM-Outer_Full-25@0
-Ant1-4.477-4.830-≤5-PASS



1-N71-PC3-15-10-M-1-DFT-QPSK-Outer_Full-50@0-
Ant1-8.898-9.360-≤10-PASS



1-N71-PC3-15-10-M-2-DFT-PI2BPSK-Outer_Full-50
@0-Ant1-8.94-9.400-≤10-PASS



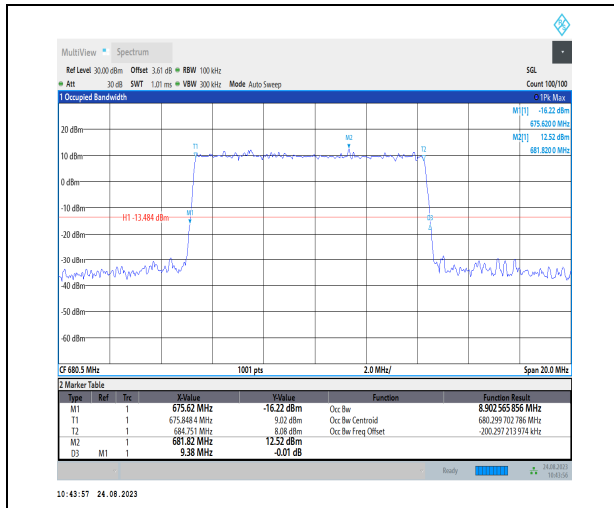
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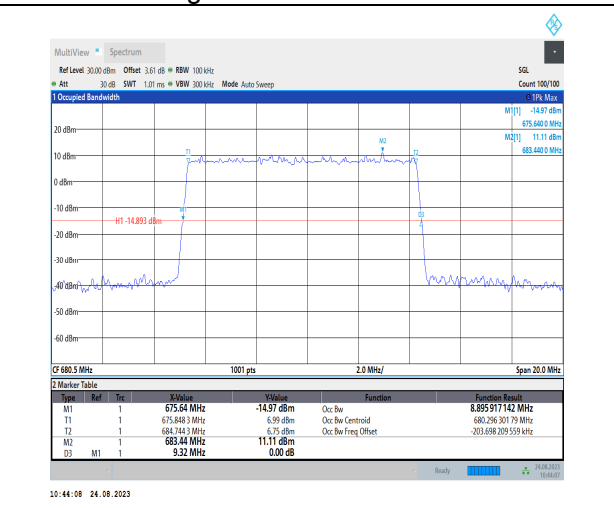
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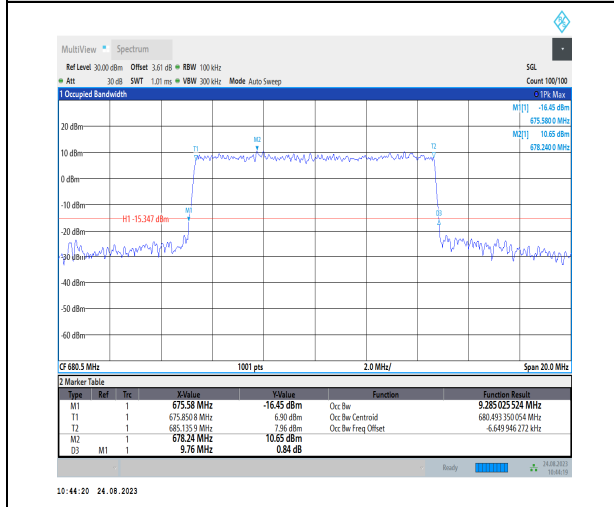
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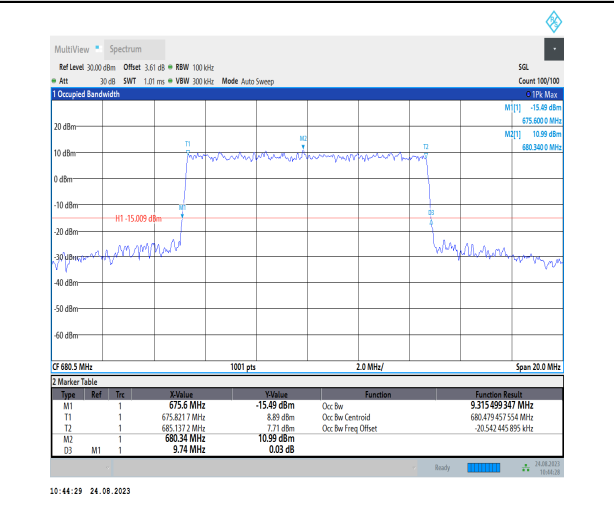
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0-Ant1-8.903-9.380-≤10-PASS



1-N71-PC3-15-10-M-5-DFT-256QAM-Outer_Full-50
@0-Ant1-8.896-9.320-≤10-PASS



1-N71-PC3-15-10-M-6-CP-QPSK-Outer_Full-52@0-
Ant1-9.285-9.760-≤10-PASS



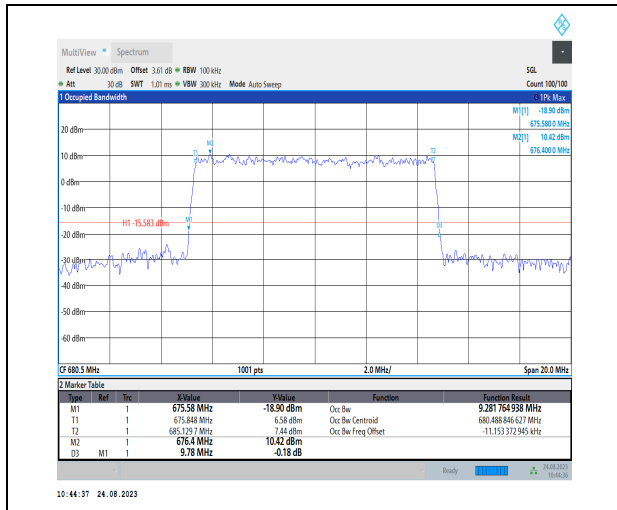
1-N71-PC3-15-10-M-7-CP-16QAM-Outer_Full-52@0
-Ant1-9.315-9.740-≤10-PASS



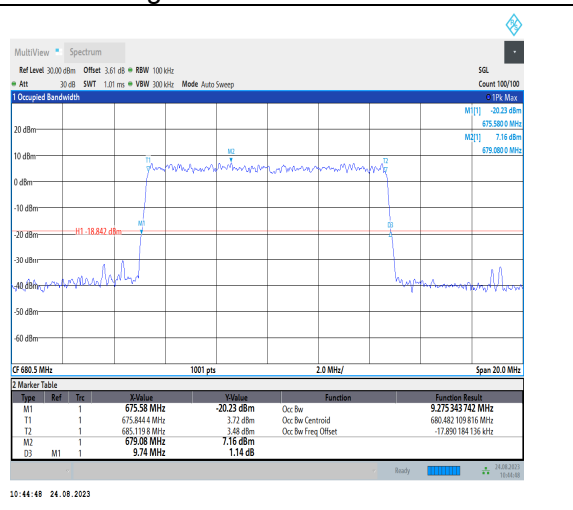
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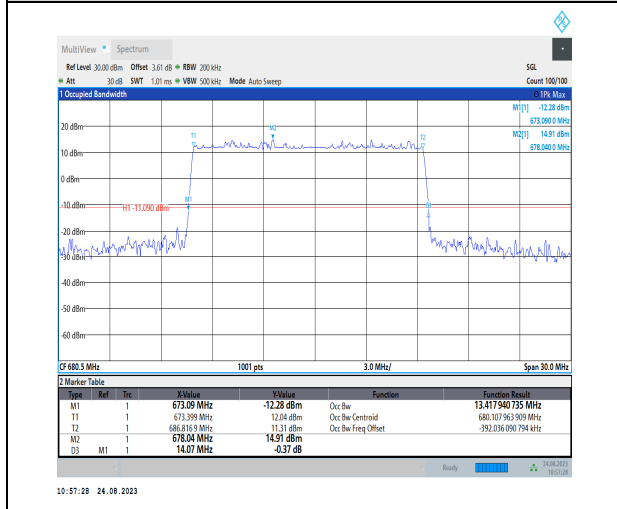
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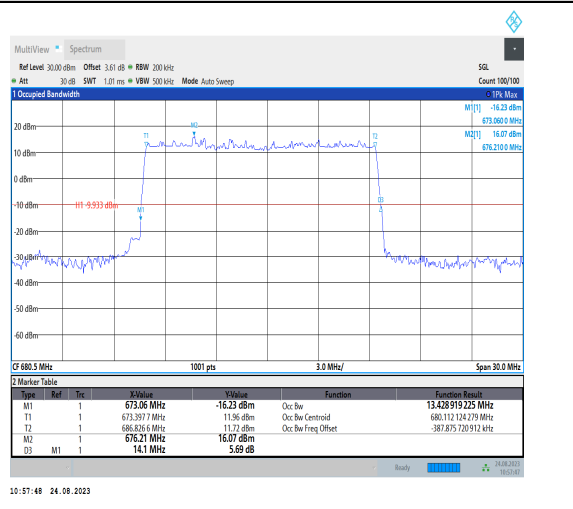
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 -Ant1-9.282-9.780-≤10-PASS



1-N71-PC3-15-10-M-9-CP-256QAM-Outer_Full-52@0
 -Ant1-9.275-9.740-≤10-PASS



1-N71-PC3-15-15-M-1-DFT-QPSK-Outer_Full-75@0
 -Ant1-13.418-14.070-≤15-PASS



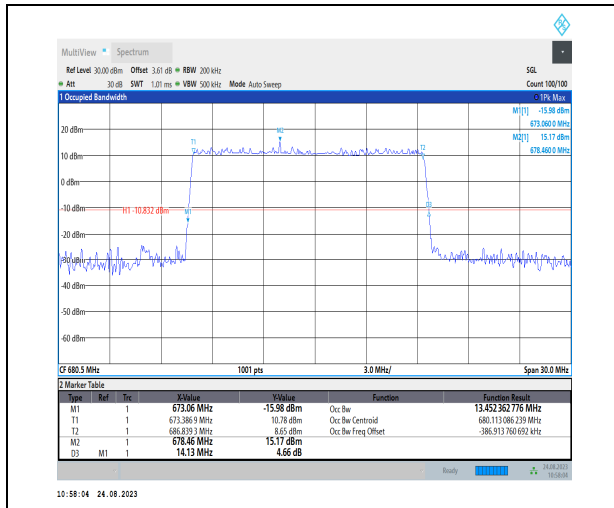
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 -Ant1-13.429-14.100-≤15-PASS



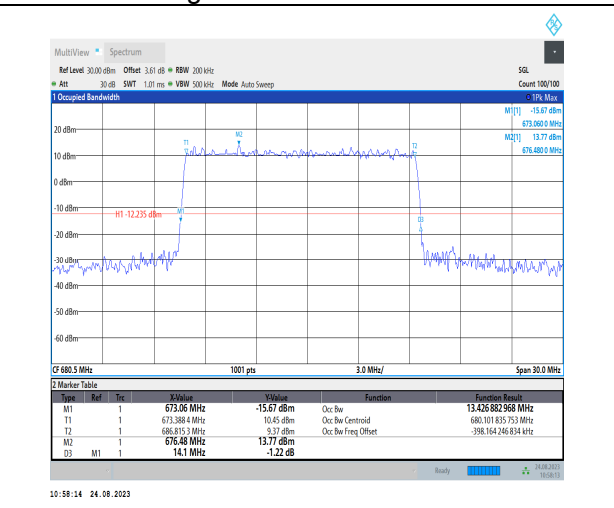
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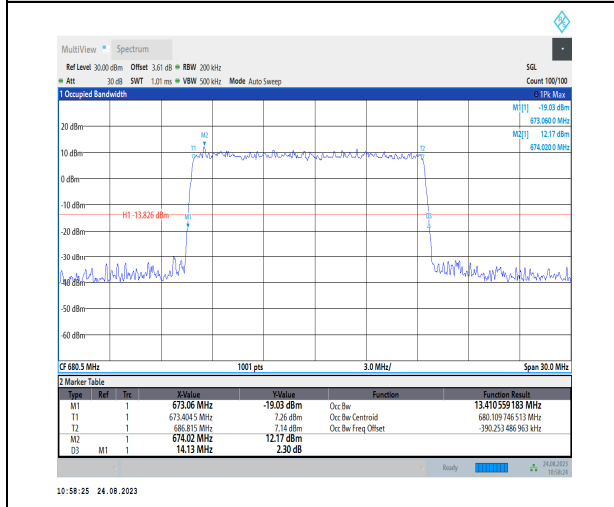
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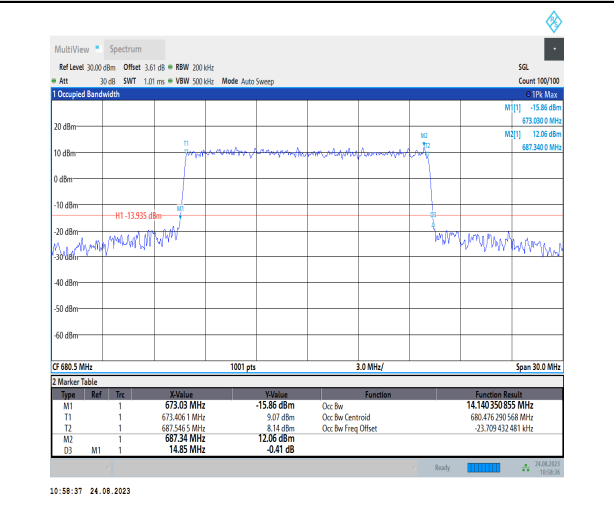
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0-Ant1-13.452-14.130-≤15-PASS



1-N71-PC3-15-15-M-4-DFT-64QAM-Outer_Full-75@
0-Ant1-13.427-14.100-≤15-PASS



1-N71-PC3-15-15-M-5-DFT-256QAM-Outer_Full-75@
0-Ant1-13.411-14.130-≤15-PASS



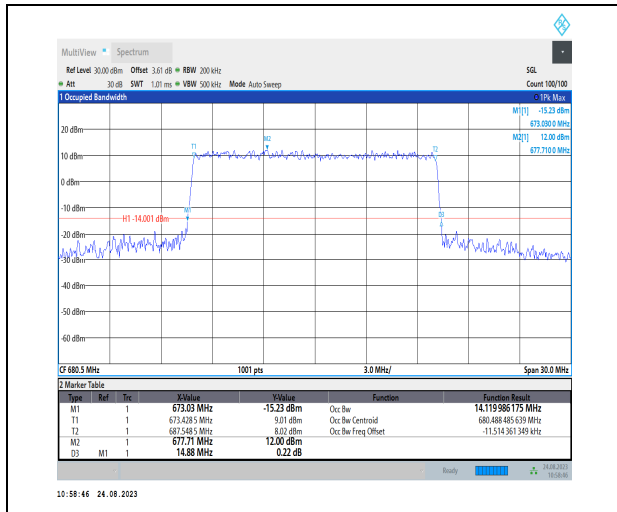
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Ant1-14.14-14.850-≤15-PASS



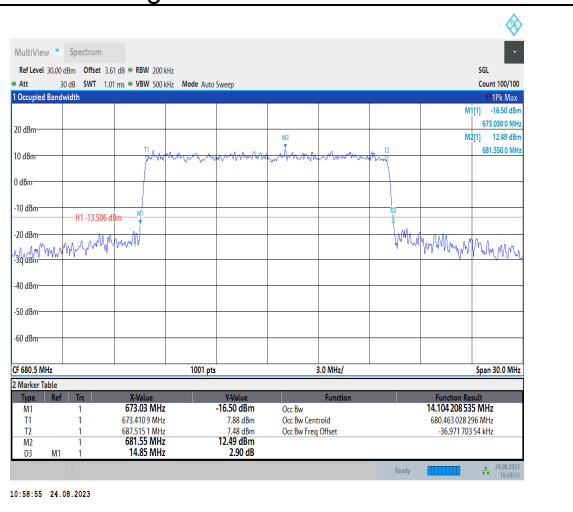
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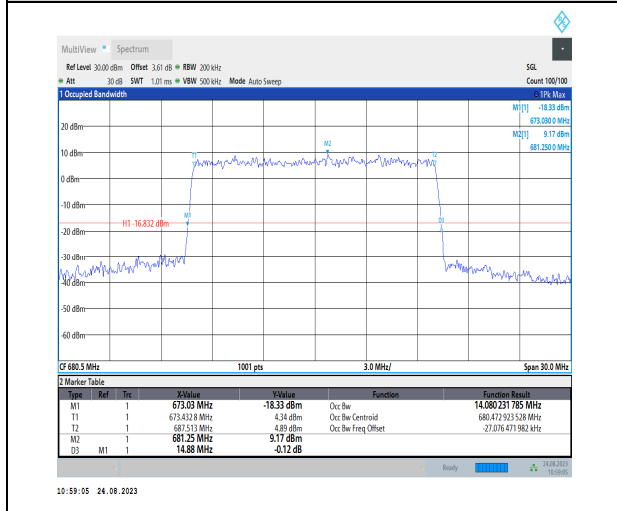
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1-N71-PC3-15-15-M-7-CP-16QAM-Outer_Full-79@0
-Ant1-14.12-14.880-≤15-PASS



1-N71-PC3-15-15-M-8-CP-64QAM-Outer_Full-79@0
-Ant1-14.104-14.850-≤15-PASS



1-N71-PC3-15-15-M-9-CP-256QAM-Outer_Full-79@0
-Ant1-14.08-14.880-≤15-PASS



1-N71-PC3-15-20-M-1-DFT-QPSK-Outer_Full-100@0
-Ant1-17.837-18.600-≤20-PASS



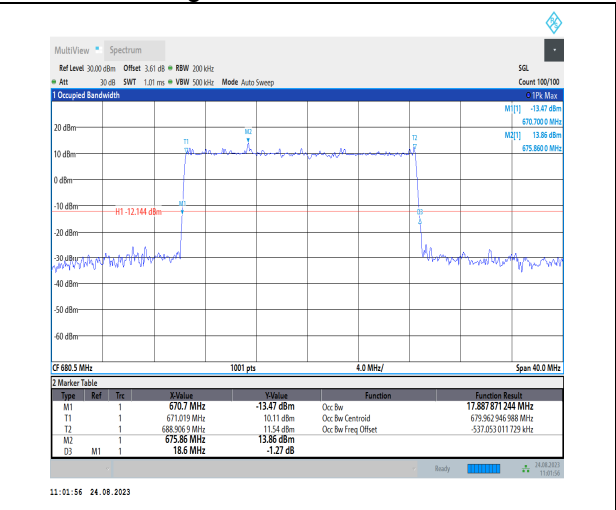
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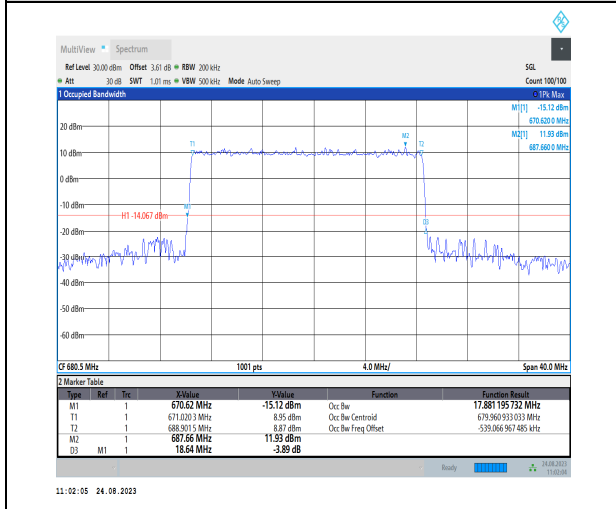
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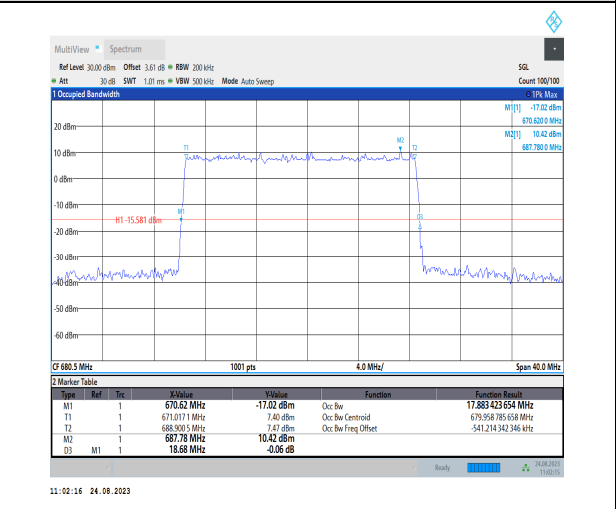
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@0-Ant1-17.89-18.720-≤20-PASS



1-N71-PC3-15-20-M-3-DFT-16QAM-Outer_Full-100
@0-Ant1-17.888-18.600-≤20-PASS



1-N71-PC3-15-20-M-4-DFT-64QAM-Outer_Full-100
@0-Ant1-17.881-18.640-≤20-PASS



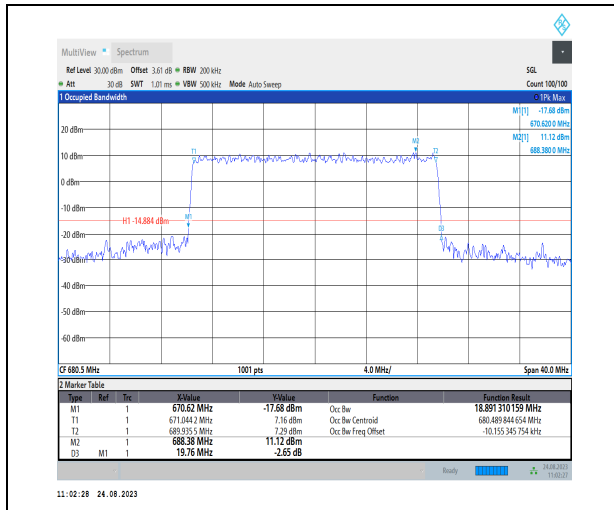
1-N71-PC3-15-20-M-5-DFT-256QAM-Outer_Full-100
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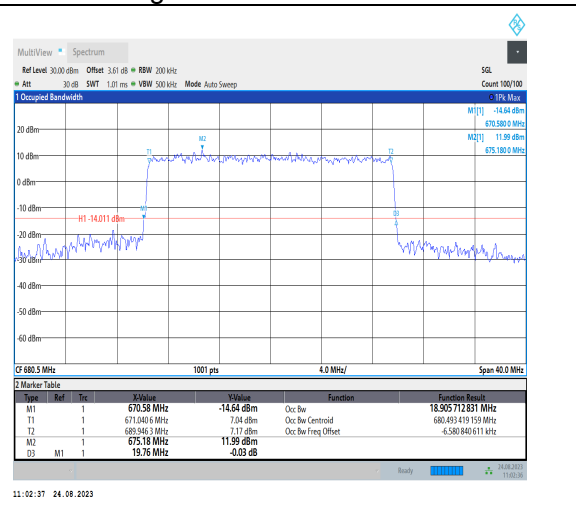
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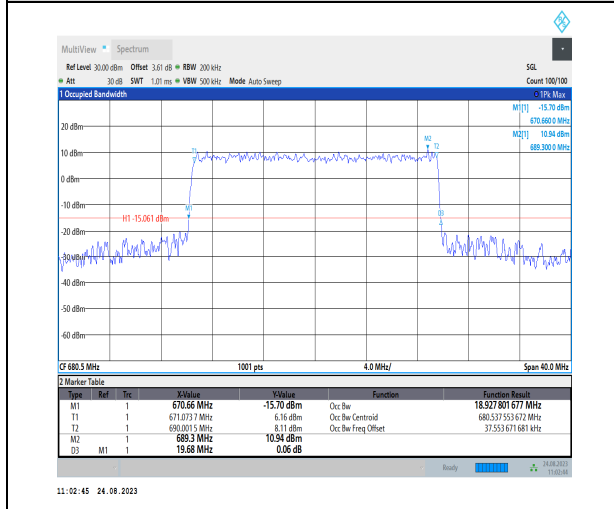
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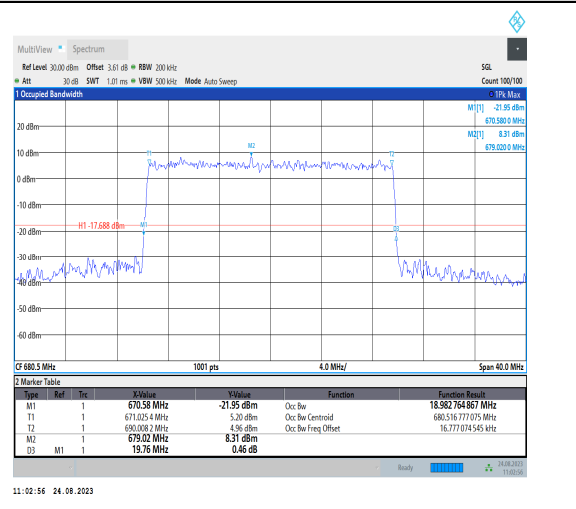
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-Ant1-18.891-19.760-≤20-PASS



1-N71-PC3-15-20-M-7-CP-16QAM-Outer_Full-106@0-Ant1-18.906-19.760-≤20-PASS



1-N71-PC3-15-20-M-8-CP-64QAM-Outer_Full-106@0-Ant1-18.928-19.680-≤20-PASS



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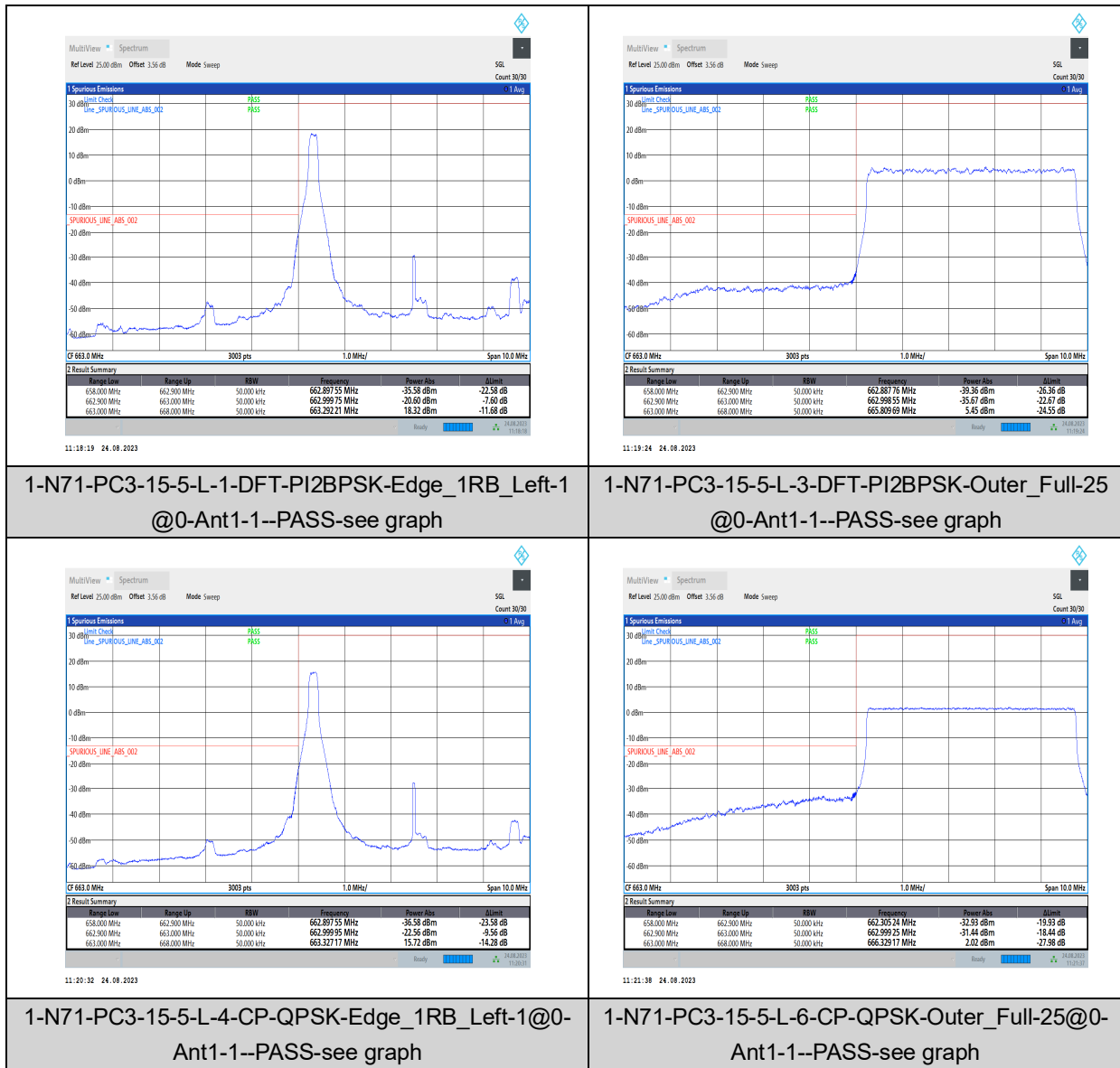
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Band Edge for SA

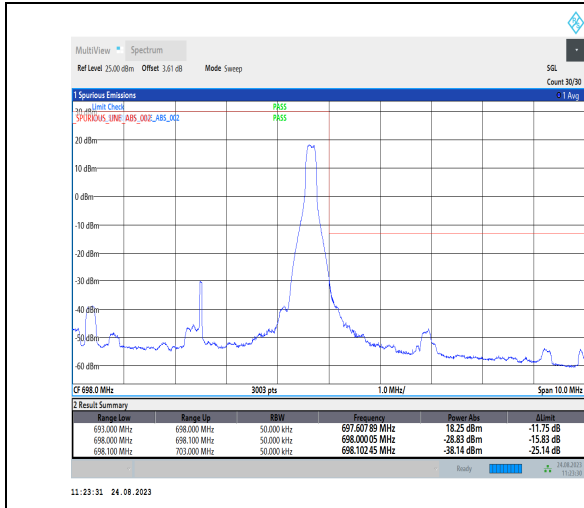
Test Graphs



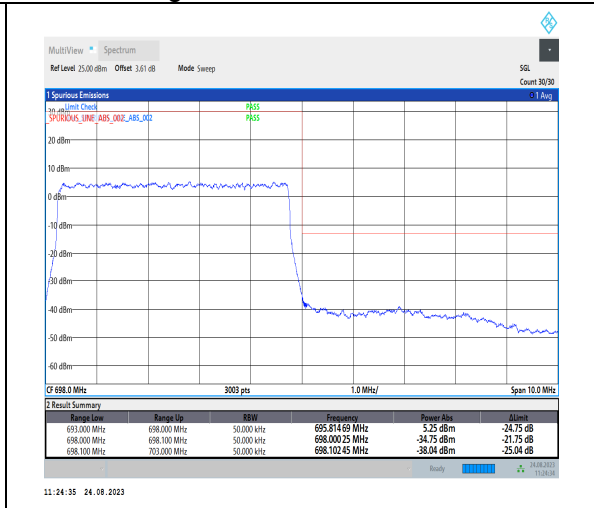
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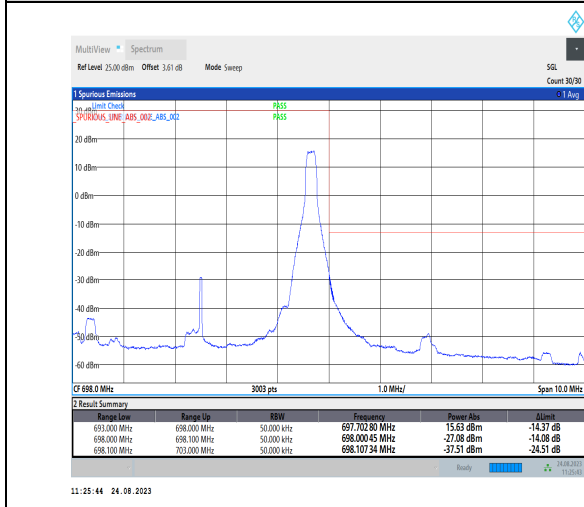
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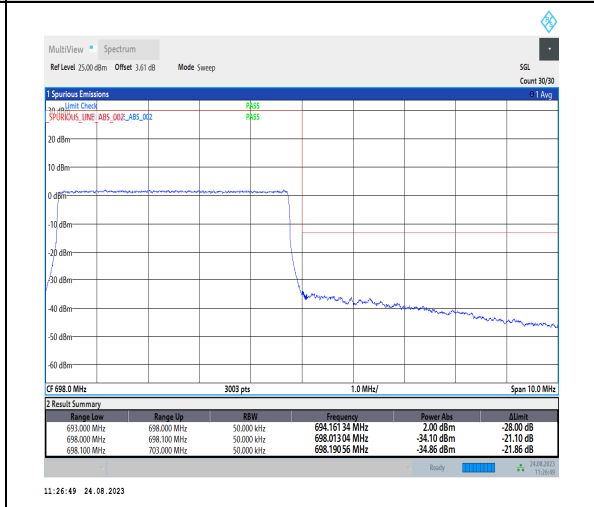
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1-N71-PC3-15-5-H-3-DFT-PI2BPSK-Outer_Full-25@0-Ant1-1--PASS-see graph



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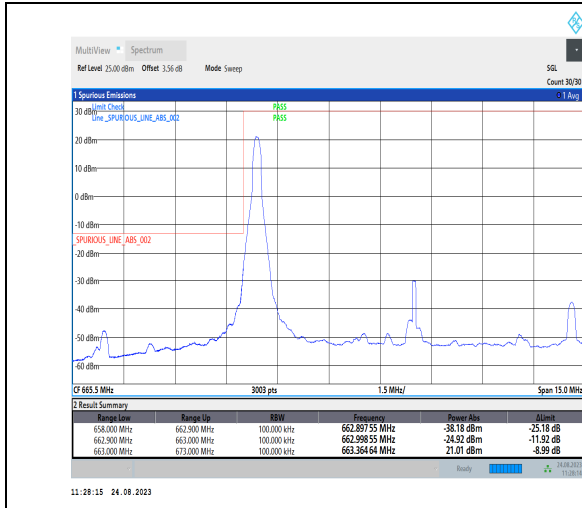
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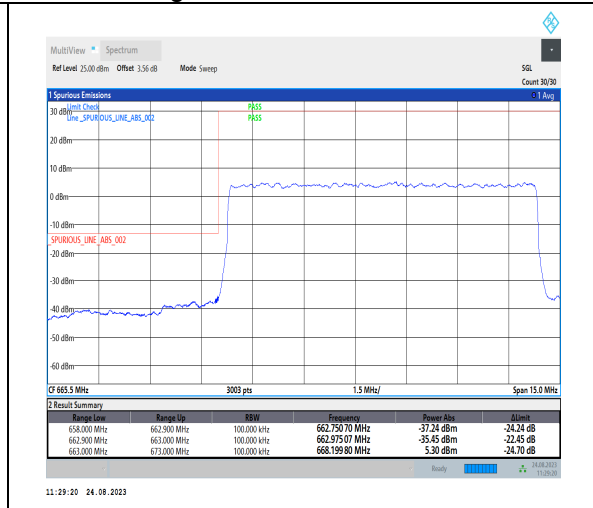
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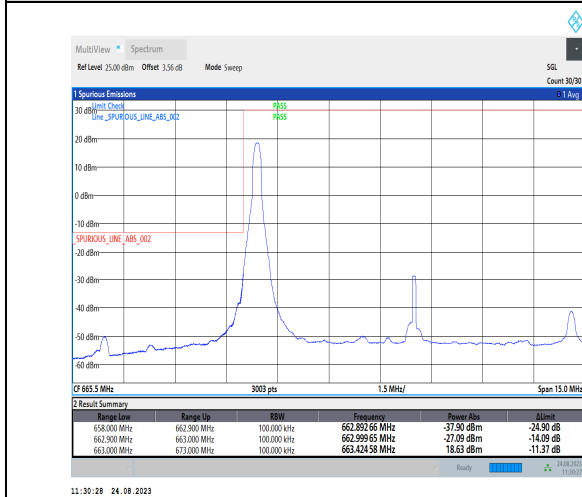
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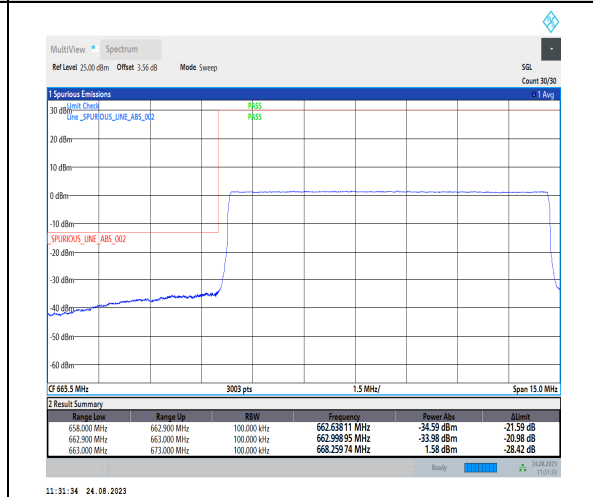
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1-N71-PC3-15-10-L-3-DFT-PI2BPSK-Outer_Full-5@0-Ant1-1--PASS-see graph



1-N71-PC3-15-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



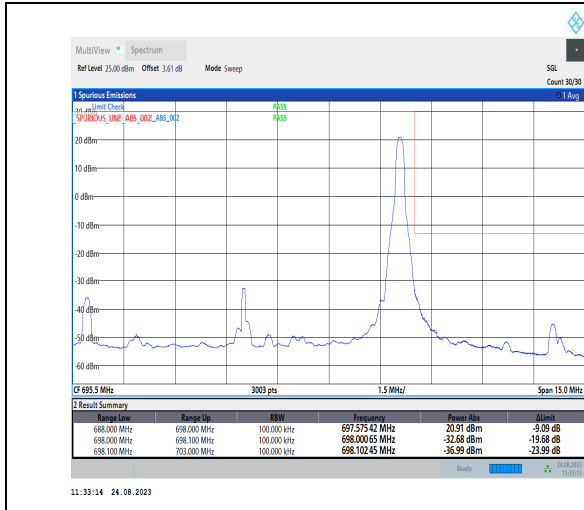
1-N71-PC3-15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant1-1--PASS-see graph



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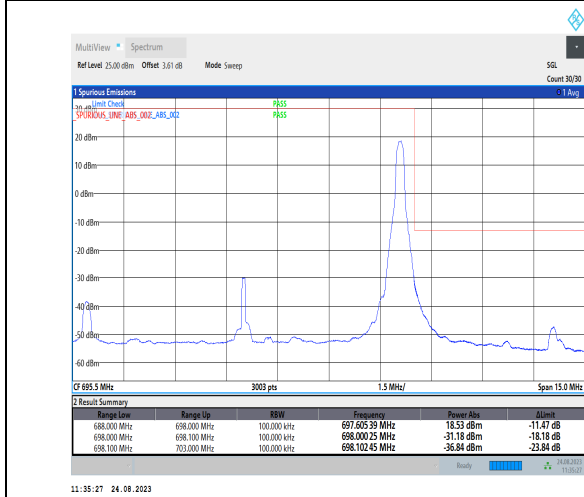
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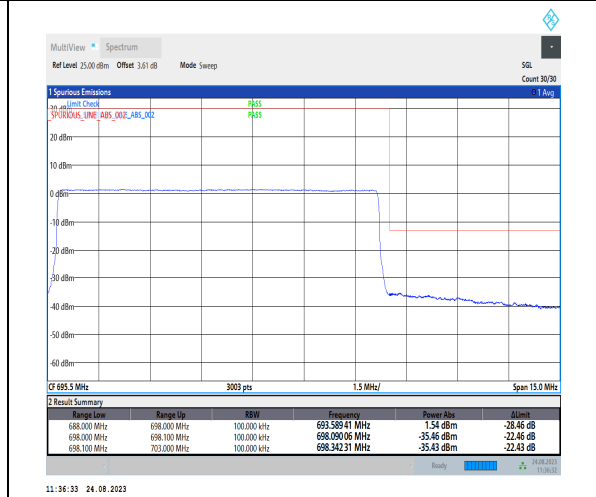
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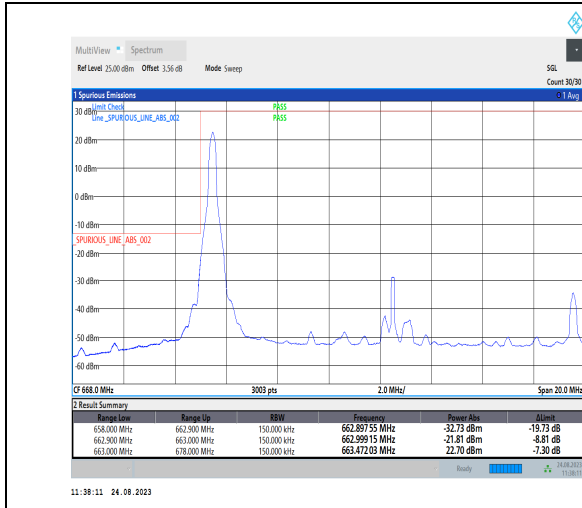


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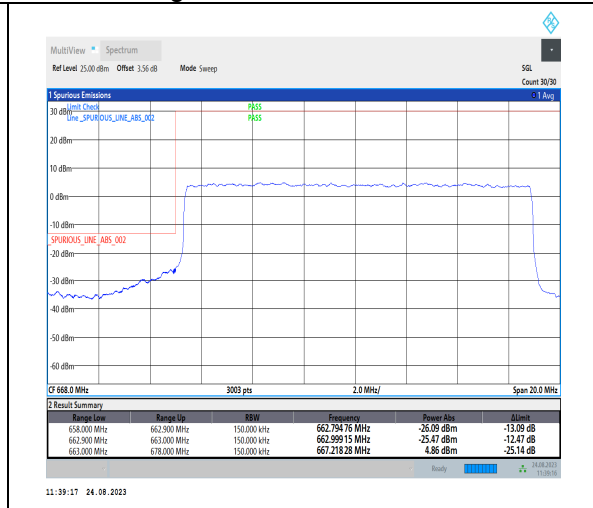


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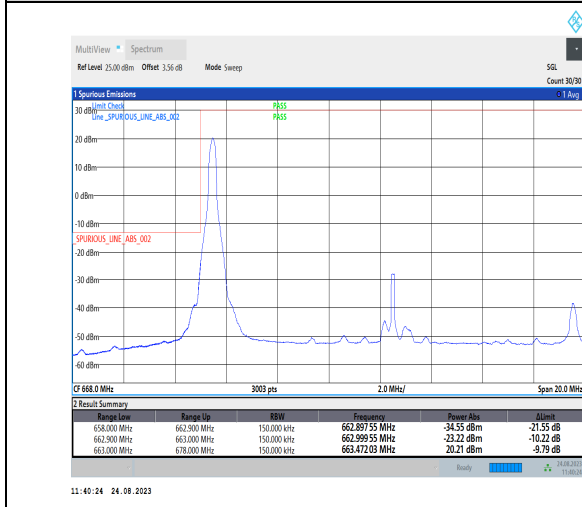
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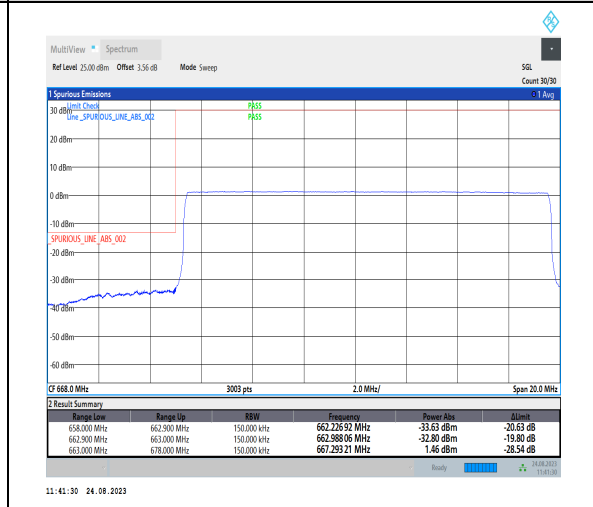
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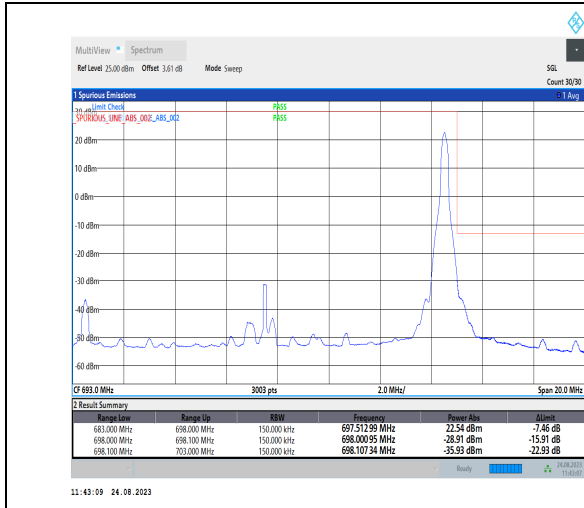
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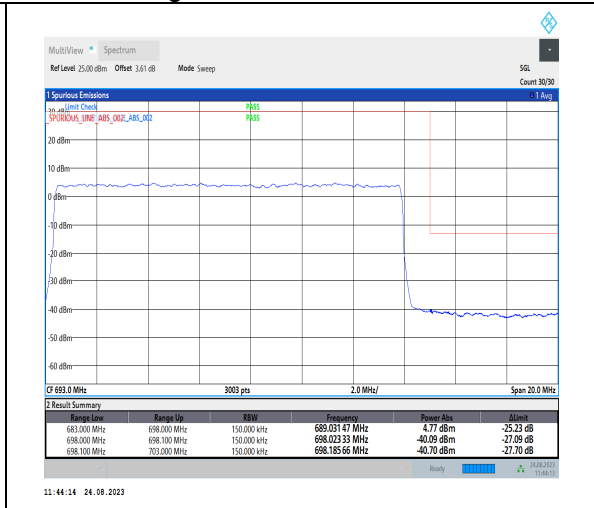
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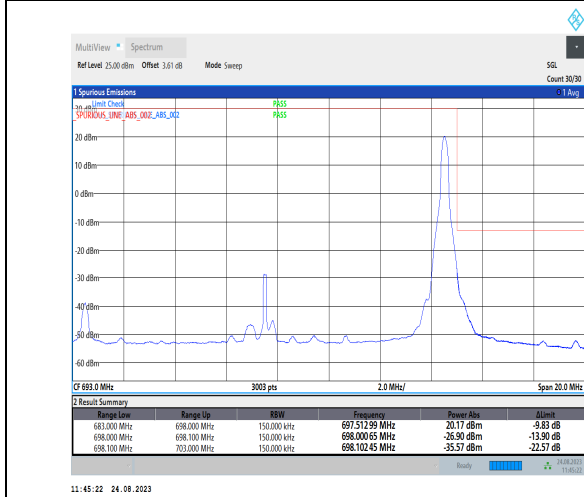
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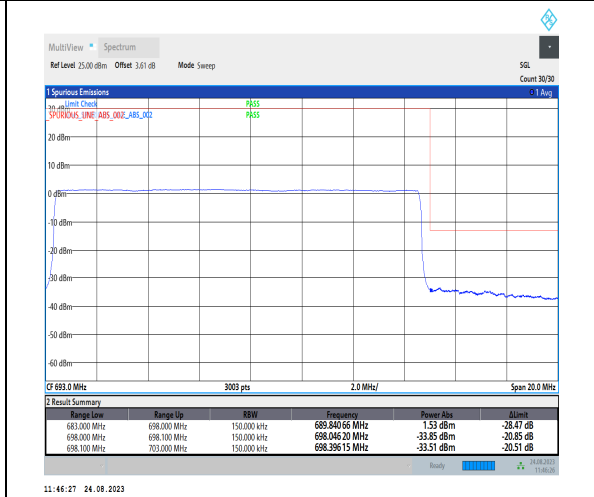
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1-N71-PC3-15-15-H-3-DFT-PI2BPSK-Outer_Full-75@0-Ant1-1--PASS-see graph



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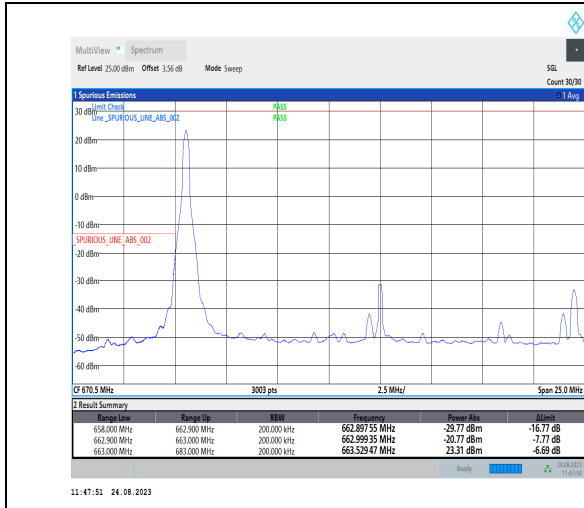
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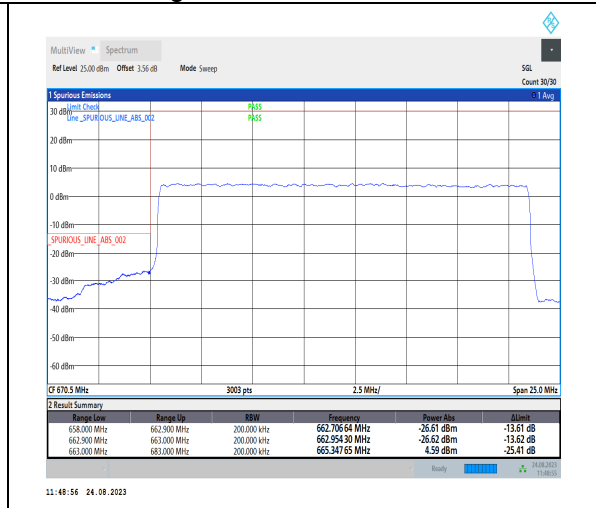
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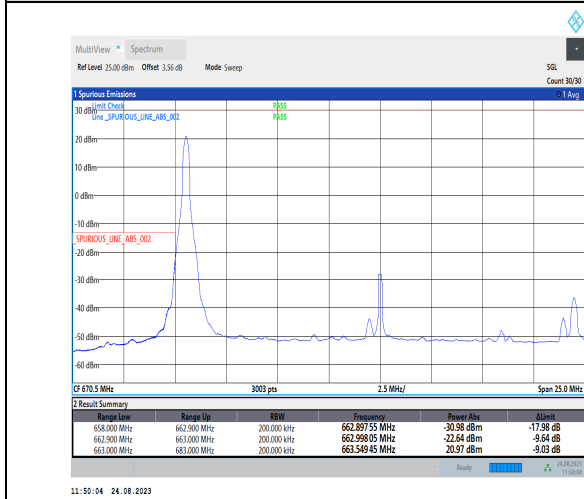
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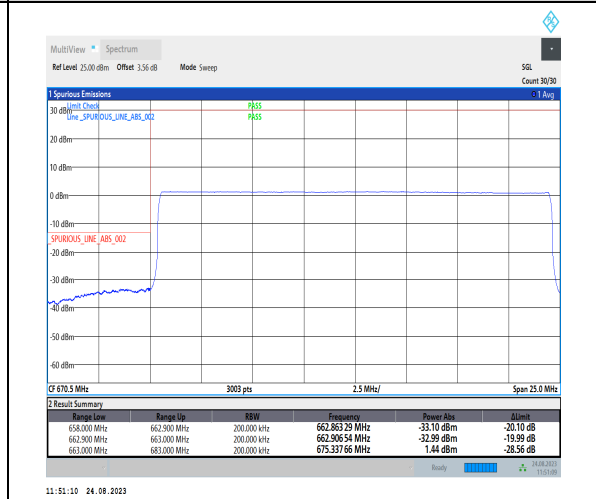
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1-N71-PC3-15-20-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph



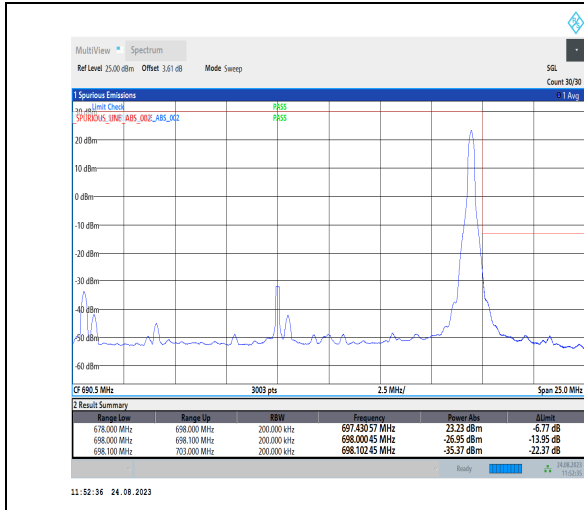
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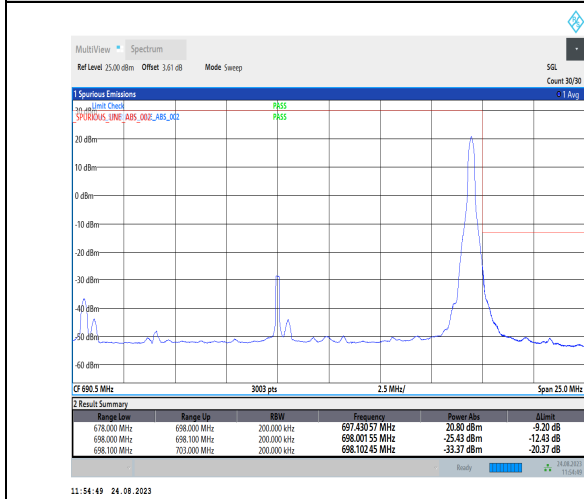
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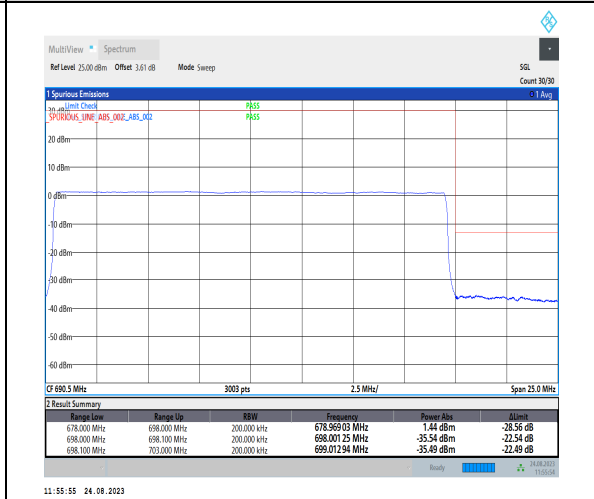
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1-N71-PC3-15-20-H-5-CP-QPSK-Edge_1RB_Right-1 @105-Ant1-1--PASS-see graph



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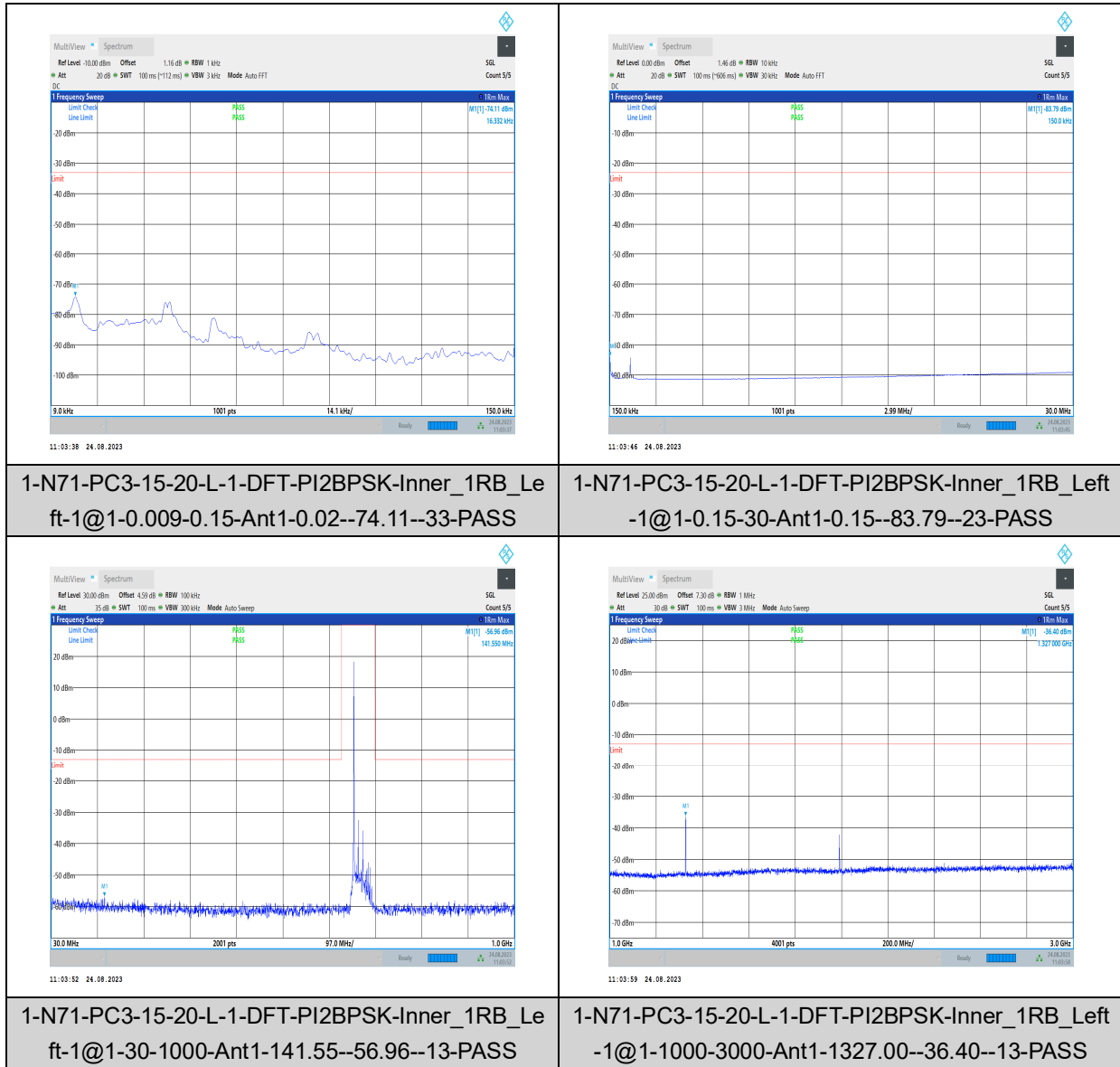
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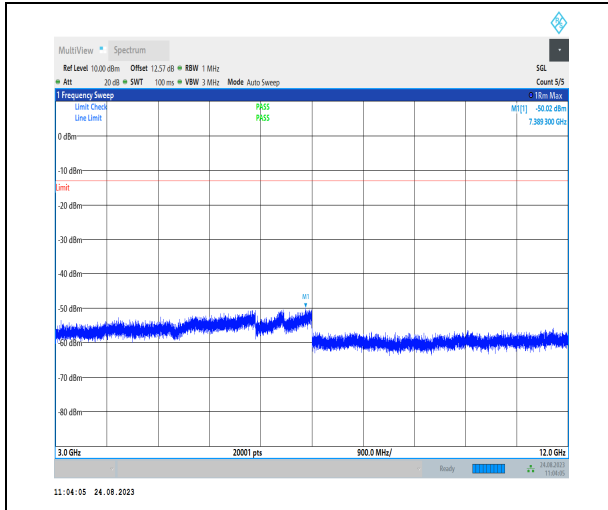
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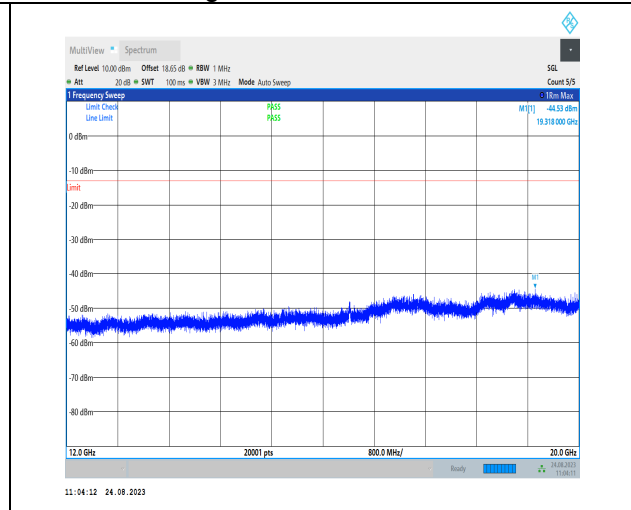
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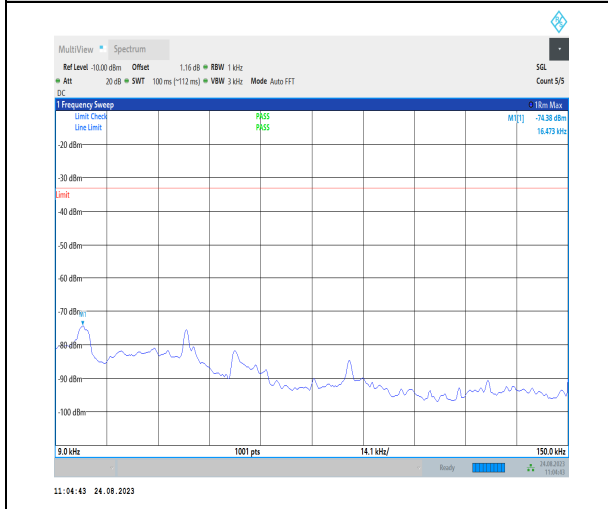
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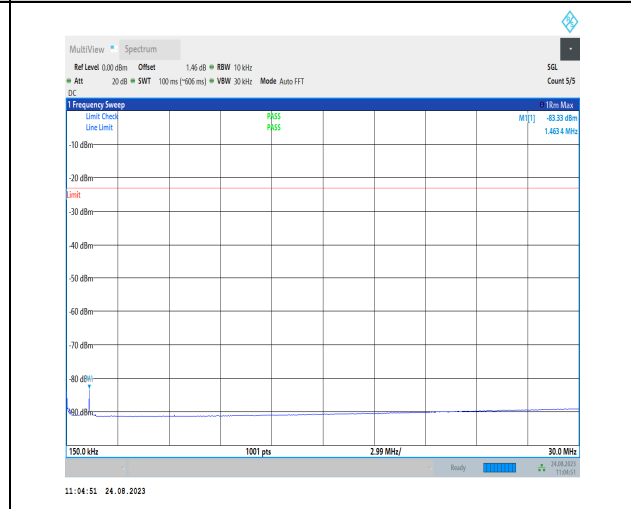
1-N71-PC3-15-20-L-1-DFT-PI2BPSK-Inner_1RB_Lef ft-1@1-3000-12000-Ant1-7389.30--50.02--13-PASS



1-N71-PC3-15-20-L-1-DFT-PI2BPSK-Inner_1RB_Left -1@1-12000-20000-Ant1-19318.00--44.53--13-PASS



1-N71-PC3-15-20-M-1-DFT-PI2BPSK-Inner_1RB_L eft-1@1-0.009-0.15-Ant1-0.02--74.38--33-PASS



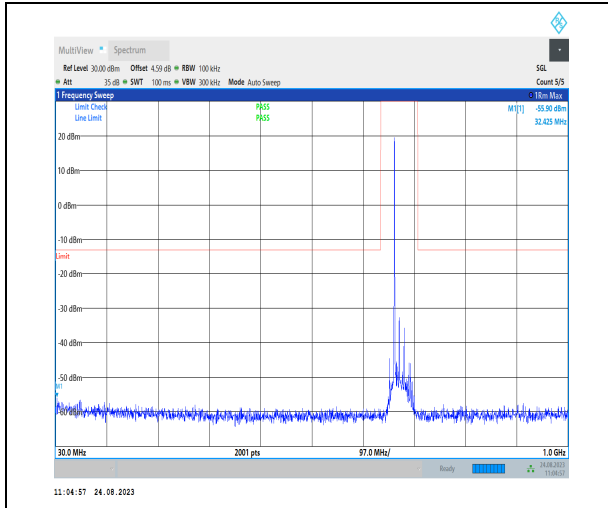
1-N71-PC3-15-20-M-1-DFT-PI2BPSK-Inner_1RB_Lef t-1@1-0.15-30-Ant1-1.46--83.33--23-PASS



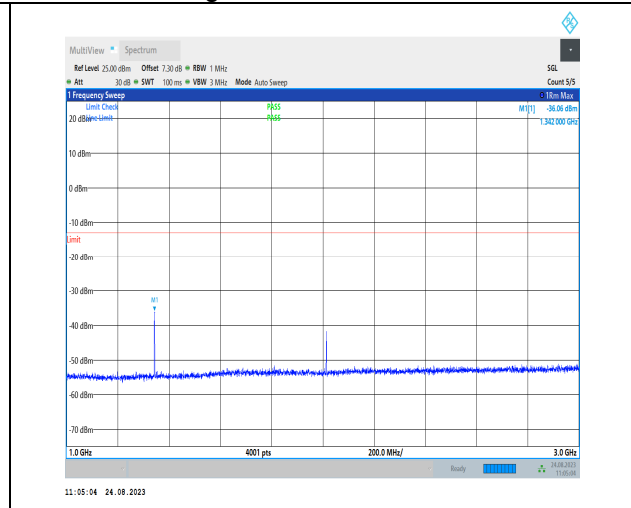
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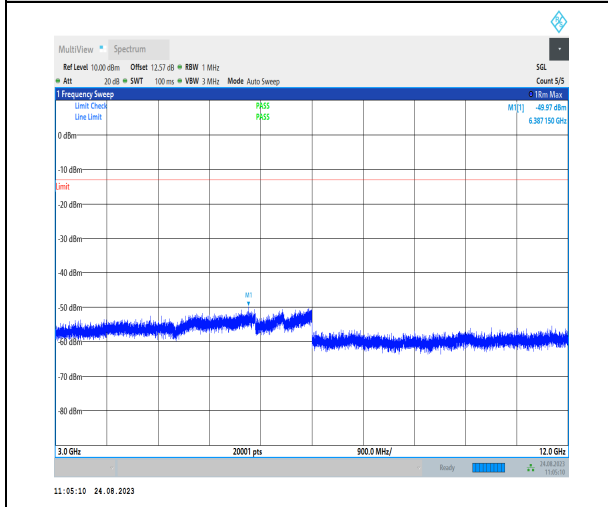
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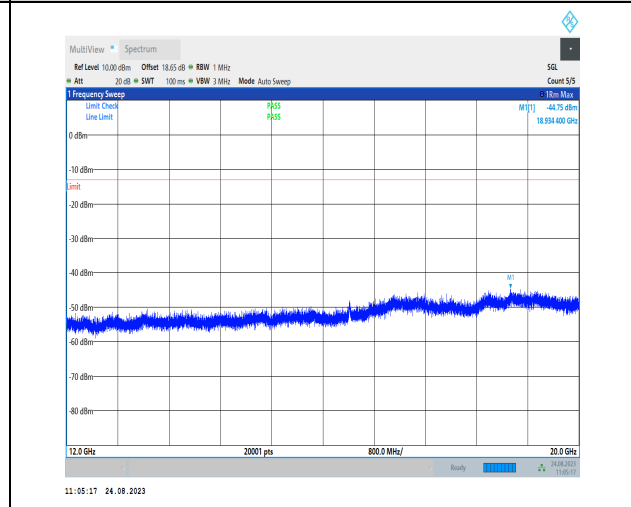
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1-N71-PC3-15-20-M-1-DFT-PI2BPSK-Inner_1RB_Lef t-1@1-1000-3000-Ant1-1342.00--36.06--13-PASS



1-N71-PC3-15-20-M-1-DFT-PI2BPSK-Inner_1RB_L eft-1@1-3000-12000-Ant1-6387.15--49.97--13-PAS S



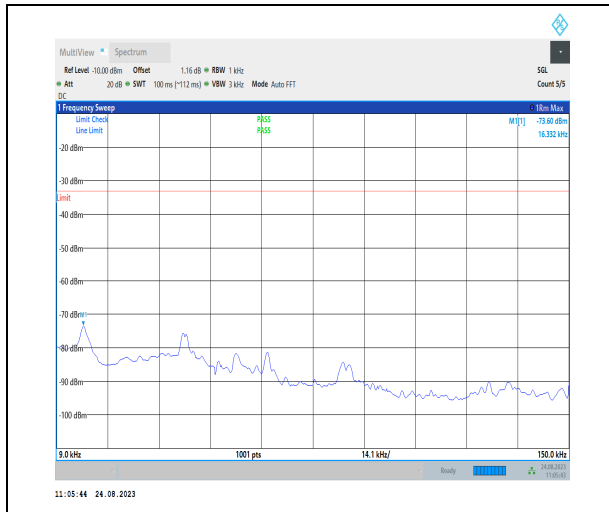
1-N71-PC3-15-20-M-1-DFT-PI2BPSK-Inner_1RB_Lef t-1@1-12000-20000-Ant1-18934.40--44.75--13-PASS



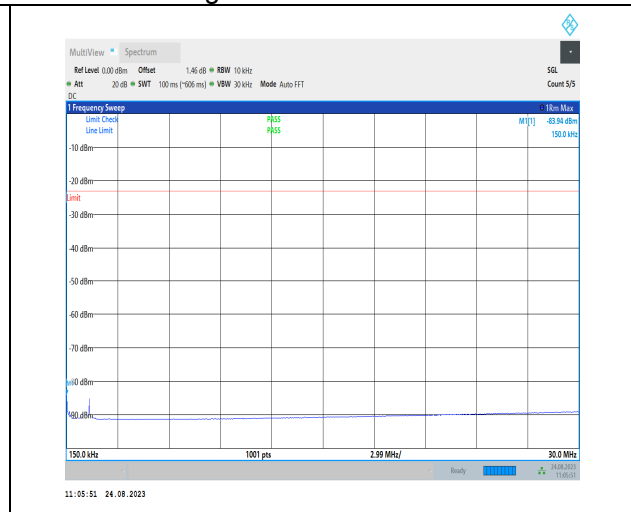
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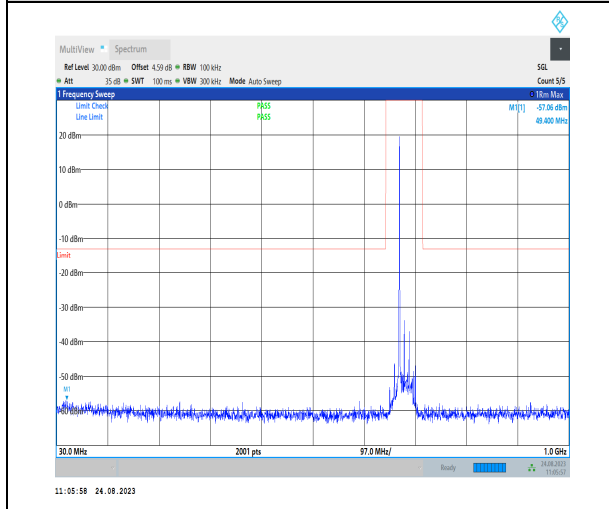
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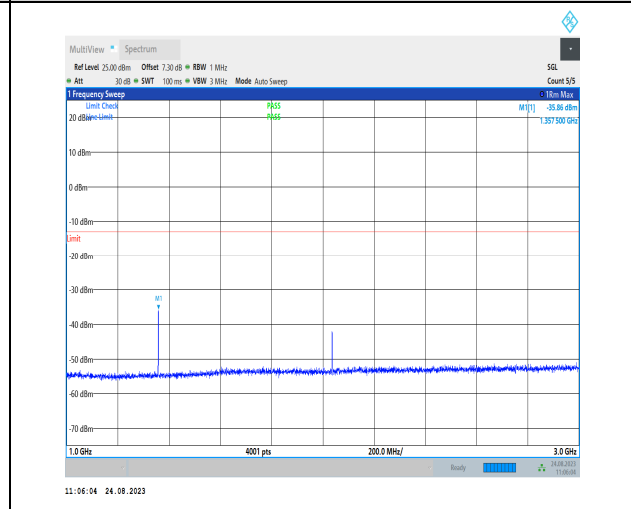
1-N71-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_L
eft-1@1-0.009-0.15-Ant1-0.02--73.60--33-PASS



1-N71-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Lef
t-1@1-0.15-30-Ant1-0.15--83.94--23-PASS



1-N71-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_L
eft-1@1-30-1000-Ant1-49.40--57.06--13-PASS



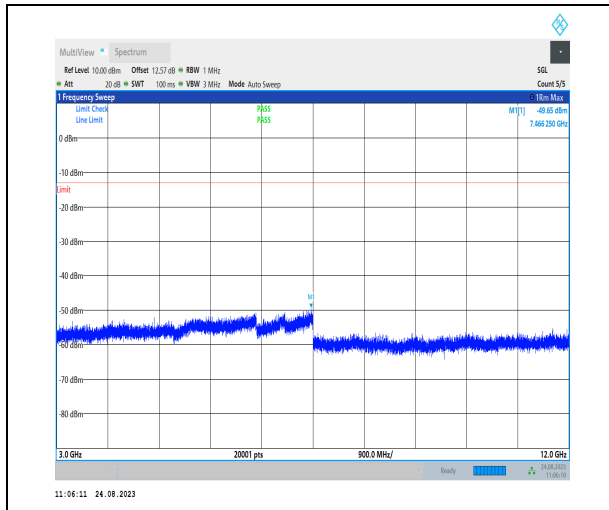
1-N71-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Lef
t-1@1-1000-3000-Ant1-1357.50--35.86--13-PASS



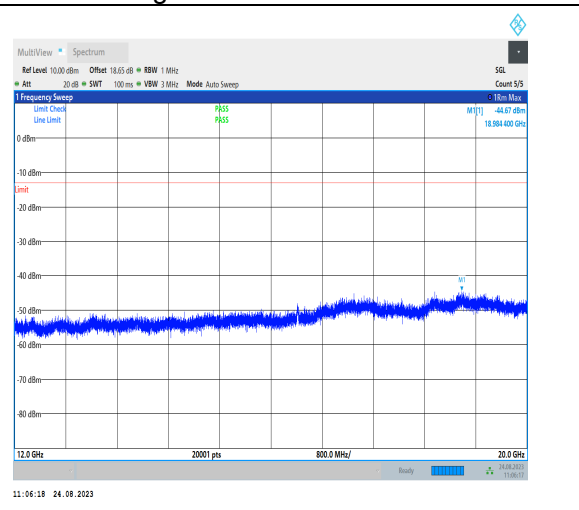
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1-N71-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_L
 eff-1@1-3000-12000-Ant1-7466.25--49.65--13-PAS
 S



1-N71-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Lef
 t-1@1-12000-20000-Ant1-18984.40--44.67--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band71_20MHz_TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1328.1800	43.99	-48.09	25.14	-74.23	-13.00	61.23	Horizontal
2	1992.2700	43.24	-47.91	25.89	-74.05	-13.00	61.05	Horizontal
3	2656.3600	42.79	-47.00	27.61	-71.85	-13.00	58.85	Horizontal
4	3320.4500	42.46	-46.65	28.49	-70.96	-13.00	57.96	Horizontal
5	3984.5400	41.64	-46.20	29.08	-70.74	-13.00	57.74	Horizontal
6	4648.6300	40.22	-45.79	30.63	-70.21	-13.00	57.21	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1328.1800	43.87	-48.09	25.14	-74.35	-13.00	61.35	Vertical
2	1992.2700	43.08	-47.91	25.89	-74.21	-13.00	61.21	Vertical
3	2656.3600	43.43	-47.00	27.61	-71.21	-13.00	58.21	Vertical
4	3320.4500	42.69	-46.65	28.49	-70.73	-13.00	57.73	Vertical
5	3984.5400	41.47	-46.20	29.08	-70.91	-13.00	57.91	Vertical
6	4648.6300	40.09	-45.79	30.63	-70.34	-13.00	57.34	Vertical



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Test Band = SA Band71_20MHz_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1328.1800	44.07	-48.09	25.14	-74.15	-13.00	61.15	Horizontal
2	1992.2700	43.18	-47.91	25.89	-74.11	-13.00	61.11	Horizontal
3	2656.3600	42.42	-47.00	27.61	-72.22	-13.00	59.22	Horizontal
4	3320.4500	42.64	-46.65	28.49	-70.78	-13.00	57.78	Horizontal
5	3984.5400	40.90	-46.20	29.08	-71.48	-13.00	58.48	Horizontal
6	4648.6300	39.86	-45.79	30.63	-70.57	-13.00	57.57	Horizontal



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 Wireless Laboratory

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Test Band = NSA 66A-N71A_ TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1328.1800	42.67	-48.09	25.14	-75.55	-13.00	62.55	Horizontal
2	1992.2700	41.53	-47.91	25.89	-75.76	-13.00	62.76	Horizontal
3	2656.3600	42.00	-47.00	27.61	-72.64	-13.00	59.64	Horizontal
4	3320.4500	42.64	-46.65	28.49	-70.78	-13.00	57.78	Horizontal
5	3984.5400	41.29	-46.20	29.08	-71.09	-13.00	58.09	Horizontal
6	4648.6300	39.47	-45.79	30.63	-70.96	-13.00	57.96	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1328.1800	43.55	-48.09	25.14	-74.67	-13.00	61.67	Vertical
2	1992.2700	43.20	-47.91	25.89	-74.09	-13.00	61.09	Vertical
3	2656.3600	42.67	-47.00	27.61	-71.97	-13.00	58.97	Vertical
4	3320.4500	41.94	-46.65	28.49	-71.48	-13.00	58.48	Vertical
5	3984.5400	41.68	-46.20	29.08	-70.70	-13.00	57.70	Vertical
6	4648.6300	39.75	-45.79	30.63	-70.68	-13.00	57.68	Vertical



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Test Band = NSA 66A-N71A_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1343.1800	42.67	-48.07	25.13	-75.54	-13.00	62.54	Horizontal
2	2014.7700	42.00	-47.87	25.94	-75.19	-13.00	62.19	Horizontal
3	2686.3600	42.64	-47.03	27.67	-71.98	-13.00	58.98	Horizontal
4	3357.9500	41.66	-46.60	28.51	-71.68	-13.00	58.68	Horizontal
5	4029.5400	41.14	-46.11	29.17	-71.06	-13.00	58.06	Horizontal
6	4701.1300	39.62	-45.80	30.74	-70.70	-13.00	57.70	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1343.1800	43.09	-48.07	25.13	-75.12	-13.00	62.12	Vertical
2	2014.7700	42.13	-47.87	25.94	-75.06	-13.00	62.06	Vertical
3	2686.3600	42.75	-47.03	27.67	-71.87	-13.00	58.87	Vertical
4	3357.9500	41.63	-46.60	28.51	-71.71	-13.00	58.71	Vertical
5	4029.5400	40.85	-46.11	29.17	-71.35	-13.00	58.35	Vertical
6	4701.1300	40.03	-45.80	30.74	-70.29	-13.00	57.29	Vertical



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Test Band = NSA 66A-N71A_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1358.1800	42.51	-48.05	25.12	-75.68	-13.00	62.68	Horizontal
2	2037.2700	42.56	-47.83	26.01	-74.52	-13.00	61.52	Horizontal
3	2716.3600	42.88	-47.03	27.73	-71.68	-13.00	58.68	Horizontal
4	3395.4500	41.04	-46.55	28.54	-72.23	-13.00	59.23	Horizontal
5	4074.5400	40.66	-45.98	29.28	-71.30	-13.00	58.30	Horizontal
6	4753.6300	40.18	-45.71	30.86	-69.94	-13.00	56.94	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1358.1800	43.94	-48.05	25.12	-74.25	-13.00	61.25	Vertical
2	2037.2700	43.20	-47.83	26.01	-73.88	-13.00	60.88	Vertical
3	2716.3600	43.18	-47.03	27.73	-71.38	-13.00	58.38	Vertical
4	3395.4500	41.56	-46.55	28.54	-71.71	-13.00	58.71	Vertical
5	4074.5400	40.82	-45.98	29.28	-71.14	-13.00	58.14	Vertical
6	4753.6300	39.85	-45.71	30.86	-70.27	-13.00	57.27	Vertical



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Test Band = NRCA_N66A_N71A_TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3783	40.66	-45.85	28.88	-71.57	-13.00	58.57	Horizontal
2	4584	40.55	-45.68	30.48	-69.90	-13.00	56.90	Horizontal
3	5045.25	40.05	-45.52	31.51	-69.22	-13.00	56.22	Horizontal
4	6672.75	39.95	-43.96	34.61	-64.66	-13.00	51.66	Horizontal
5	8346	36.66	-41.75	36.63	-63.73	-13.00	50.73	Horizontal
6	11143.5	30.22	-37.72	38.71	-64.04	-13.00	51.04	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3762	41.44	-45.76	28.86	-70.72	-13.00	57.72	Vertical
2	4579.5	41.55	-45.68	30.47	-68.91	-13.00	55.91	Vertical
3	5336.25	40.41	-45.17	32.21	-67.81	-13.00	54.81	Vertical
4	6509.25	40.14	-44.59	34.32	-65.39	-13.00	52.39	Vertical
5	7828.5	38.43	-42.46	36.73	-62.55	-13.00	49.55	Vertical
6	10631.25	31.38	-38.29	38.52	-63.65	-13.00	50.65	Vertical



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Test Band = NRCA_N66A_N71A_TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4134	41.48	-45.76	29.42	-70.12	-13.00	57.12	Horizontal
2	5958	40.38	-44.89	32.69	-67.08	-13.00	54.08	Horizontal
3	7140.75	39.53	-43.89	35.59	-64.02	-13.00	51.02	Horizontal
4	8406	37.22	-41.46	36.60	-62.90	-13.00	49.90	Horizontal
5	11438.25	30.89	-37.35	38.74	-62.97	-13.00	49.97	Horizontal
6	12684	27.73	-36.83	39.01	-65.36	-13.00	52.36	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3620.25	42.84	-46.00	28.72	-69.70	-13.00	56.70	Vertical
2	4874.25	41.49	-45.53	31.12	-68.18	-13.00	55.18	Vertical
3	5448.75	40.80	-45.27	32.48	-67.25	-13.00	54.25	Vertical
4	6687	39.72	-43.88	34.64	-64.78	-13.00	51.78	Vertical
5	8968.5	36.09	-41.08	36.32	-63.93	-13.00	50.93	Vertical
6	9638.25	34.15	-39.58	37.51	-63.18	-13.00	50.18	Vertical



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Test Band = NRCA_N66A_N71A_TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4283.25	41.40	-45.58	29.78	-69.66	-13.00	56.66	Horizontal
2	5524.5	40.64	-45.20	32.60	-67.21	-13.00	54.21	Horizontal
3	7645.5	38.29	-43.02	36.66	-63.33	-13.00	50.33	Horizontal
4	10701	30.88	-37.89	38.55	-63.72	-13.00	50.72	Horizontal
5	12777.75	28.43	-36.80	39.03	-64.59	-13.00	51.59	Horizontal
6	14345.25	27.89	-35.54	41.04	-61.88	-13.00	48.88	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5258.25	41.23	-45.17	32.02	-67.18	-13.00	54.18	Vertical
2	8013.75	37.93	-42.21	36.79	-62.75	-13.00	49.75	Vertical
3	9420	34.52	-39.91	37.10	-63.55	-13.00	50.55	Vertical
4	11221.5	31.31	-37.40	38.72	-62.62	-13.00	49.62	Vertical
5	12132.75	29.03	-37.39	38.84	-64.78	-13.00	51.78	Vertical
6	16474.5	28.83	-34.01	40.67	-59.76	-13.00	46.76	Vertical



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Test Band = NRCA_N70A_N71A_TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1401.7143	44.16	-48.01	25.10	-74.00	-13.00	61.00	Horizontal
2	2194.2857	43.55	-47.68	26.44	-72.95	-13.00	59.95	Horizontal
3	2502.8571	43.17	-47.26	27.31	-72.04	-13.00	59.04	Horizontal
4	3488.5714	42.53	-46.54	28.59	-70.68	-13.00	57.68	Horizontal
5	5070.2857	40.72	-45.51	31.57	-68.48	-13.00	55.48	Horizontal
6	6388	40.08	-44.72	33.94	-65.96	-13.00	52.96	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1456	44.80	-48.18	25.13	-73.51	-13.00	60.51	Vertical
2	1905.1429	47.17	-48.04	25.71	-70.42	-13.00	57.42	Vertical
3	2350.8571	44.07	-47.47	26.88	-71.78	-13.00	58.78	Vertical
4	3595.4286	42.74	-46.35	28.70	-70.17	-13.00	57.17	Vertical
5	4553.1429	42.22	-45.70	30.42	-68.32	-13.00	55.32	Vertical
6	4958.2857	42.26	-45.71	31.31	-67.41	-13.00	54.41	Vertical



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Test Band = NRCA_N70A_N71A_TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1638.8571	43.21	-48.23	25.26	-75.03	-13.00	62.03	Horizontal
2	2036	43.02	-47.83	26.00	-74.07	-13.00	61.07	Horizontal
3	3659.4286	42.32	-46.23	28.76	-70.41	-13.00	57.41	Horizontal
4	3970.8571	42.29	-46.21	29.07	-70.11	-13.00	57.11	Horizontal
5	5890.2857	41.13	-44.94	32.68	-66.39	-13.00	53.39	Horizontal
6	7394.8571	39.59	-43.27	36.31	-62.64	-13.00	49.64	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.7143	44.77	-48.29	25.19	-73.59	-13.00	60.59	Vertical
2	2640.5714	43.55	-46.98	27.58	-71.11	-13.00	58.11	Vertical
3	3171.4286	43.62	-46.42	28.40	-69.66	-13.00	56.66	Vertical
4	3967.4286	42.48	-46.21	29.07	-69.92	-13.00	56.92	Vertical
5	4892.5714	42.34	-45.58	31.16	-67.34	-13.00	54.34	Vertical
6	6935.4286	40.60	-43.96	35.08	-63.53	-13.00	50.53	Vertical



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Test Band = NRCA_N70A_N71A_TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1636	43.82	-48.24	25.25	-74.42	-13.00	61.42	Horizontal
2	2405.1429	43.45	-47.44	27.03	-72.22	-13.00	59.22	Horizontal
3	3025.7143	42.97	-46.58	28.32	-70.55	-13.00	57.55	Horizontal
4	4889.7143	42.21	-45.59	31.16	-67.48	-13.00	54.48	Horizontal
5	5708.5714	40.69	-44.58	32.64	-66.51	-13.00	53.51	Horizontal
6	7400.5714	39.75	-43.26	36.32	-62.45	-13.00	49.45	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1272.5714	45.42	-48.25	25.16	-72.93	-13.00	59.93	Vertical
2	1848	44.77	-48.00	25.60	-72.89	-13.00	59.89	Vertical
3	2578.2857	43.53	-47.00	27.46	-71.28	-13.00	58.28	Vertical
4	3194.8571	43.52	-46.31	28.42	-69.64	-13.00	56.64	Vertical
5	4825.1429	41.54	-45.62	31.02	-68.33	-13.00	55.33	Vertical
6	7590.8571	39.86	-42.98	36.64	-61.74	-13.00	48.74	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N71	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	-1.200000	-0.001763	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	-2.300000	-0.003380	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-2.500000	-0.003674	PASS
N71	15	20	CP-QPSK	M	Outer_Full	VH	NT	-3.500000	-0.005143	PASS
N71	15	20	CP-QPSK	M	Outer_Full	VN	NT	-1.300000	-0.001910	PASS
N71	15	20	CP-QPSK	M	Outer_Full	VL	NT	-2.000000	-0.002939	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	-3.900000	-0.005731	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	-2.000000	-0.002939	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	-4.200000	-0.006172	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	-3.700000	-0.005437	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	-4.800000	-0.007054	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	-5.400000	-0.007935	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	-1.800000	-0.002645	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	-5.300000	-0.007788	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	-3.000000	-0.004409	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	-30	-4.000000	-0.005878	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	-20	-3.300000	-0.004849	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	-10	-5.400000	-0.007935	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	0	-2.100000	-0.003086	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	10	-3.300000	-0.004849	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	20	-5.200000	-0.007641	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	30	-3.800000	-0.005584	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	40	-3.400000	-0.004996	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	50	-5.800000	-0.008523	PASS

---End of Attachment---



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