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# Appendix B.22

## NR Band n38



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## Effective (Isotropic) Radiated Power Output Data for SA

### Test Result

ANT3

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	EIRP (dBm)	Limit	Verdict
N38	30	10	DFT-QPSK	L	Inner_1RB_Left	24.22	23.02	33.00	PASS
N38	30	10	DFT-16QAM	L	Inner_1RB_Left	23.36	22.16	33.00	PASS
N38	30	10	DFT-QPSK	M	Inner_1RB_Left	24.23	23.03	33.00	PASS
N38	30	10	DFT-16QAM	M	Inner_1RB_Left	23.35	22.15	33.00	PASS
N38	30	10	DFT-QPSK	H	Inner_1RB_Left	24.40	23.20	33.00	PASS
N38	30	10	DFT-16QAM	H	Inner_1RB_Left	23.48	22.28	33.00	PASS
N38	30	15	DFT-QPSK	L	Inner_1RB_Left	24.38	23.18	33.00	PASS
N38	30	15	DFT-16QAM	L	Inner_1RB_Left	23.47	22.27	33.00	PASS
N38	30	15	DFT-QPSK	M	Inner_1RB_Left	24.29	23.09	33.00	PASS
N38	30	15	DFT-16QAM	M	Inner_1RB_Left	23.40	22.20	33.00	PASS
N38	30	15	DFT-QPSK	H	Inner_1RB_Left	24.48	23.28	33.00	PASS
N38	30	15	DFT-16QAM	H	Inner_1RB_Left	23.46	22.26	33.00	PASS
N38	30	20	DFT-QPSK	L	Inner_1RB_Left	24.34	23.14	33.00	PASS
N38	30	20	DFT-16QAM	L	Inner_1RB_Left	23.43	22.23	33.00	PASS
N38	30	20	DFT-QPSK	M	Inner_1RB_Left	24.32	23.12	33.00	PASS
N38	30	20	DFT-16QAM	M	Inner_1RB_Left	23.34	22.14	33.00	PASS
N38	30	20	DFT-QPSK	H	Inner_1RB_Left	24.41	23.21	33.00	PASS
N38	30	20	DFT-16QAM	H	Inner_1RB_Left	23.51	22.31	33.00	PASS
N38	30	30	DFT-QPSK	L	Inner_1RB_Left	24.51	23.31	33.00	PASS
N38	30	30	DFT-16QAM	L	Inner_1RB_Left	23.54	22.34	33.00	PASS
N38	30	30	DFT-QPSK	M	Inner_1RB_Left	24.35	23.15	33.00	PASS
N38	30	30	DFT-16QAM	M	Inner_1RB_Left	23.48	22.28	33.00	PASS
N38	30	30	DFT-QPSK	H	Inner_1RB_Left	24.44	23.24	33.00	PASS
N38	30	30	DFT-16QAM	H	Inner_1RB_Left	23.58	22.38	33.00	PASS
N38	30	40	DFT-PI2BPSK	L	Inner_1RB_Left	24.44	23.24	33.00	PASS
N38	30	40	DFT-PI2BPSK	L	Inner_1RB_Right	24.52	23.32	33.00	PASS
N38	30	40	DFT-PI2BPSK	L	Outer_Full	23.90	22.70	33.00	PASS
N38	30	40	DFT-QPSK	L	Inner_1RB_Left	24.48	23.28	33.00	PASS
N38	30	40	DFT-QPSK	L	Inner_1RB_Right	24.59	23.39	33.00	PASS



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N38	30	40	DFT-QPSK	L	Outer_Full	23.41	22.21	33.00	PASS
N38	30	40	DFT-16QAM	L	Inner_1RB_Left	23.44	22.24	33.00	PASS
N38	30	40	DFT-16QAM	L	Inner_1RB_Right	23.66	22.46	33.00	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	22.44	21.24	33.00	PASS
N38	30	40	DFT-64QAM	L	Inner_1RB_Left	21.92	20.72	33.00	PASS
N38	30	40	DFT-64QAM	L	Inner_1RB_Right	22.00	20.80	33.00	PASS
N38	30	40	DFT-64QAM	L	Outer_Full	21.94	20.74	33.00	PASS
N38	30	40	DFT-256QAM	L	Inner_1RB_Left	19.78	18.58	33.00	PASS
N38	30	40	DFT-256QAM	L	Inner_1RB_Right	19.86	18.66	33.00	PASS
N38	30	40	DFT-256QAM	L	Outer_Full	19.95	18.75	33.00	PASS
N38	30	40	DFT-PI2BPSK	M	Inner_1RB_Left	24.40	23.20	33.00	PASS
N38	30	40	DFT-PI2BPSK	M	Inner_1RB_Right	24.55	23.35	33.00	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	23.95	22.75	33.00	PASS
N38	30	40	DFT-QPSK	M	Inner_1RB_Left	24.45	23.25	33.00	PASS
N38	30	40	DFT-QPSK	M	Inner_1RB_Right	24.65	23.45	33.00	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	23.41	22.21	33.00	PASS
N38	30	40	DFT-16QAM	M	Inner_1RB_Left	23.40	22.20	33.00	PASS
N38	30	40	DFT-16QAM	M	Inner_1RB_Right	23.57	22.37	33.00	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	22.47	21.27	33.00	PASS
N38	30	40	DFT-64QAM	M	Inner_1RB_Left	21.92	20.72	33.00	PASS
N38	30	40	DFT-64QAM	M	Inner_1RB_Right	21.95	20.75	33.00	PASS
N38	30	40	DFT-64QAM	M	Outer_Full	21.96	20.76	33.00	PASS
N38	30	40	DFT-256QAM	M	Inner_1RB_Left	19.73	18.53	33.00	PASS
N38	30	40	DFT-256QAM	M	Inner_1RB_Right	19.85	18.65	33.00	PASS
N38	30	40	DFT-256QAM	M	Outer_Full	19.97	18.77	33.00	PASS
N38	30	40	DFT-PI2BPSK	H	Inner_1RB_Left	24.43	23.23	33.00	PASS
N38	30	40	DFT-PI2BPSK	H	Inner_1RB_Right	24.55	23.35	33.00	PASS
N38	30	40	DFT-PI2BPSK	H	Outer_Full	24.08	22.88	33.00	PASS
N38	30	40	DFT-QPSK	H	Inner_1RB_Left	24.51	23.31	33.00	PASS
N38	30	40	DFT-QPSK	H	Inner_1RB_Right	24.63	23.43	33.00	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	23.53	22.33	33.00	PASS
N38	30	40	DFT-16QAM	H	Inner_1RB_Left	23.46	22.26	33.00	PASS
N38	30	40	DFT-16QAM	H	Inner_1RB_Right	23.67	22.47	33.00	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	22.55	21.35	33.00	PASS
N38	30	40	DFT-64QAM	H	Inner_1RB_Left	21.89	20.69	33.00	PASS
N38	30	40	DFT-64QAM	H	Inner_1RB_Right	22.08	20.88	33.00	PASS
N38	30	40	DFT-64QAM	H	Outer_Full	21.97	20.77	33.00	PASS



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N38	30	40	DFT-256QAM	H	Inner_1RB_Left	19.72	18.52	33.00	PASS
N38	30	40	DFT-256QAM	H	Inner_1RB_Right	19.97	18.77	33.00	PASS
N38	30	40	DFT-256QAM	H	Outer_Full	20.05	18.85	33.00	PASS



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## Peak-to-Average Ratio for SA

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N38	30	40	DFT-256QAM	L	Outer_Full	6.71	≤13	PASS
N38	30	40	CP-256QAM	L	Outer_Full	6.74	≤13	PASS
N38	30	40	DFT-256QAM	M	Outer_Full	6.71	≤13	PASS
N38	30	40	CP-256QAM	M	Outer_Full	6.70	≤13	PASS
N38	30	40	DFT-256QAM	H	Outer_Full	6.70	≤13	PASS
N38	30	40	CP-256QAM	H	Outer_Full	6.73	≤13	PASS



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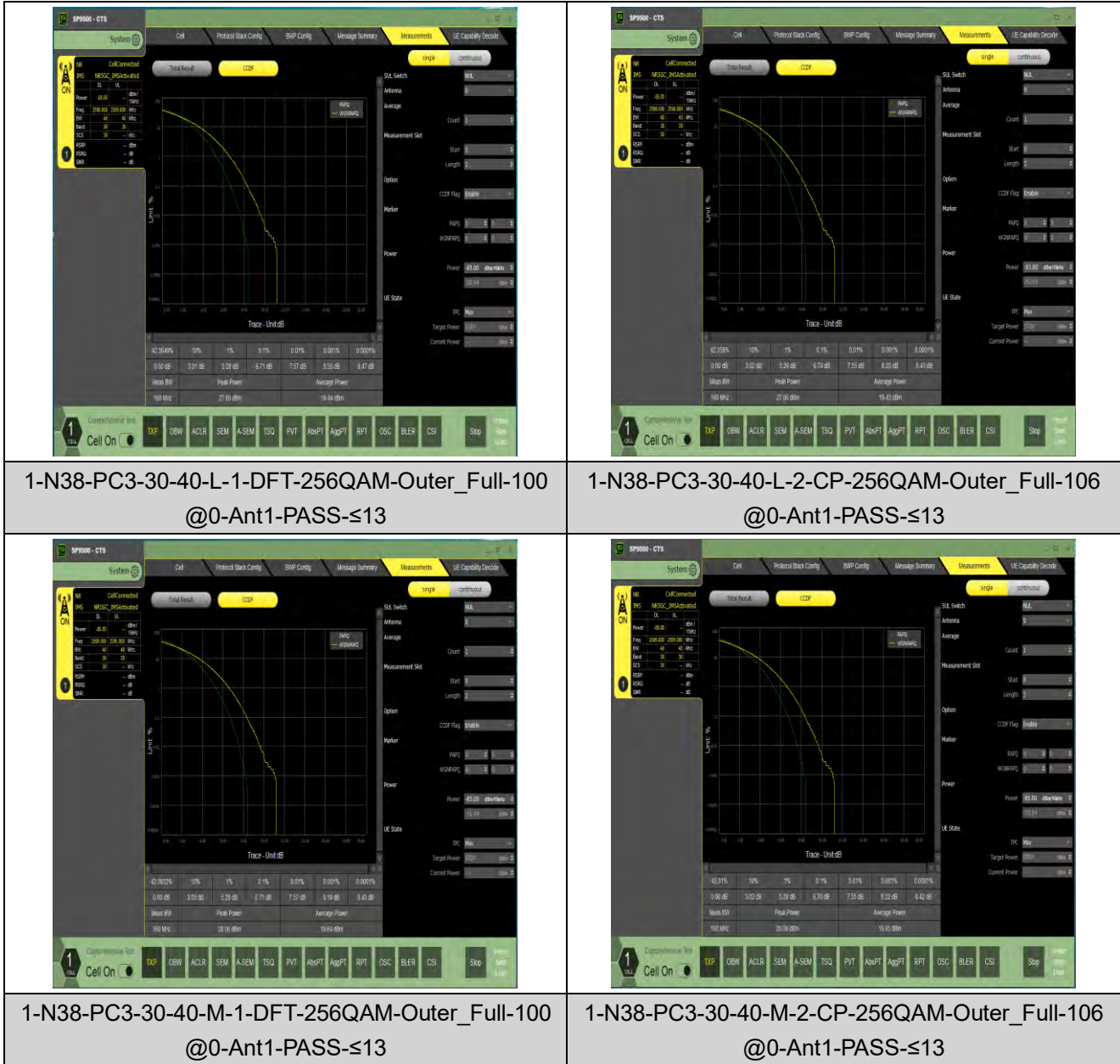
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Test Graphs



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1-N38-PC3-30-40-H-1-DFT-256QAM-Outer\_Full-100  
@0-Ant1-PASS-≤13



1-N38-PC3-30-40-H-2-CP-256QAM-Outer\_Full-106  
@0-Ant1-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
N38	30	10	DFT-QPSK	M	Outer_Full	8.604	9.840	PASS
N38	30	10	DFT-PI2BPSK	M	Outer_Full	8.626	9.800	PASS
N38	30	10	DFT-16QAM	M	Outer_Full	8.603	9.780	PASS
N38	30	10	DFT-64QAM	M	Outer_Full	8.599	9.760	PASS
N38	30	10	DFT-256QAM	M	Outer_Full	8.583	9.700	PASS
N38	30	10	CP-QPSK	M	Outer_Full	8.598	10.000	PASS
N38	30	10	CP-16QAM	M	Outer_Full	8.607	10.020	PASS
N38	30	10	CP-64QAM	M	Outer_Full	8.606	9.920	PASS
N38	30	10	CP-256QAM	M	Outer_Full	8.574	9.600	PASS
N38	30	15	DFT-QPSK	M	Outer_Full	12.986	14.580	PASS
N38	30	15	DFT-PI2BPSK	M	Outer_Full	12.971	14.190	PASS
N38	30	15	DFT-16QAM	M	Outer_Full	13.031	14.820	PASS
N38	30	15	DFT-64QAM	M	Outer_Full	12.971	14.580	PASS
N38	30	15	DFT-256QAM	M	Outer_Full	12.93	14.640	PASS
N38	30	15	CP-QPSK	M	Outer_Full	13.667	15.420	PASS
N38	30	15	CP-16QAM	M	Outer_Full	13.656	15.420	PASS
N38	30	15	CP-64QAM	M	Outer_Full	13.691	15.510	PASS
N38	30	15	CP-256QAM	M	Outer_Full	13.668	15.360	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	17.913	19.640	PASS
N38	30	20	DFT-PI2BPSK	M	Outer_Full	17.876	19.560	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	18.004	19.920	PASS
N38	30	20	DFT-64QAM	M	Outer_Full	17.965	19.680	PASS
N38	30	20	DFT-256QAM	M	Outer_Full	17.913	19.880	PASS
N38	30	20	CP-QPSK	M	Outer_Full	18.266	20.160	PASS
N38	30	20	CP-16QAM	M	Outer_Full	18.295	20.080	PASS
N38	30	20	CP-64QAM	M	Outer_Full	18.205	20.160	PASS
N38	30	20	CP-256QAM	M	Outer_Full	18.239	20.040	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	26.806	28.800	PASS
N38	30	30	DFT-PI2BPSK	M	Outer_Full	26.765	28.680	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	26.891	28.860	PASS



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N38	30	30	DFT-64QAM	M	Outer_Full	26.822	28.680	PASS
N38	30	30	DFT-256QAM	M	Outer_Full	26.838	28.680	PASS
N38	30	30	CP-QPSK	M	Outer_Full	27.891	29.940	PASS
N38	30	30	CP-16QAM	M	Outer_Full	27.902	30.000	PASS
N38	30	30	CP-64QAM	M	Outer_Full	27.839	29.820	PASS
N38	30	30	CP-256QAM	M	Outer_Full	27.899	29.700	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	36.042	39.200	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	36.035	38.800	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	35.915	38.720	PASS
N38	30	40	DFT-64QAM	M	Outer_Full	36.089	38.960	PASS
N38	30	40	DFT-256QAM	M	Outer_Full	35.949	38.880	PASS
N38	30	40	CP-QPSK	M	Outer_Full	38.111	41.120	PASS
N38	30	40	CP-16QAM	M	Outer_Full	38.2	41.200	PASS
N38	30	40	CP-64QAM	M	Outer_Full	38.088	41.040	PASS
N38	30	40	CP-256QAM	M	Outer_Full	38.055	41.120	PASS



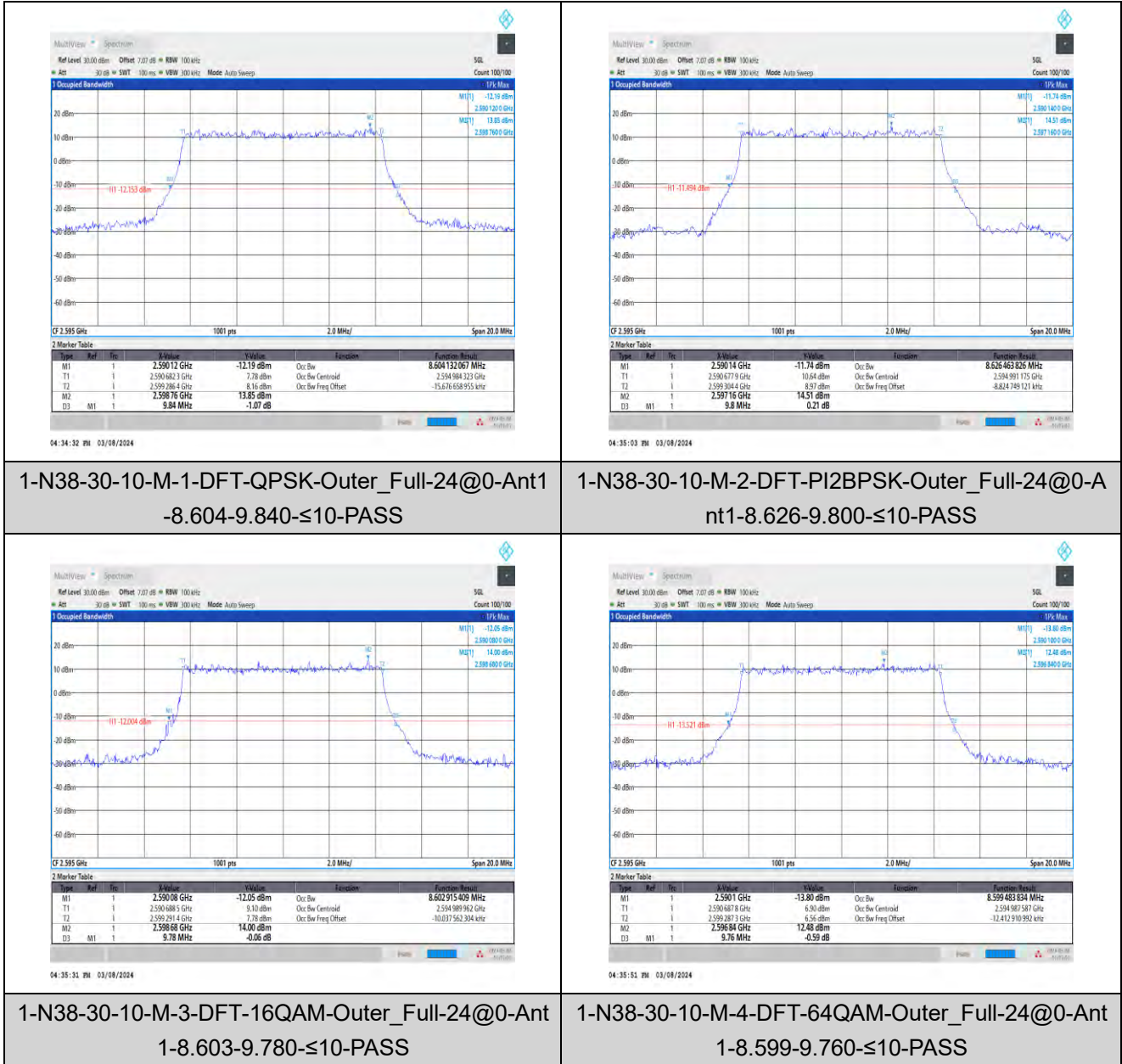
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Test Graphs



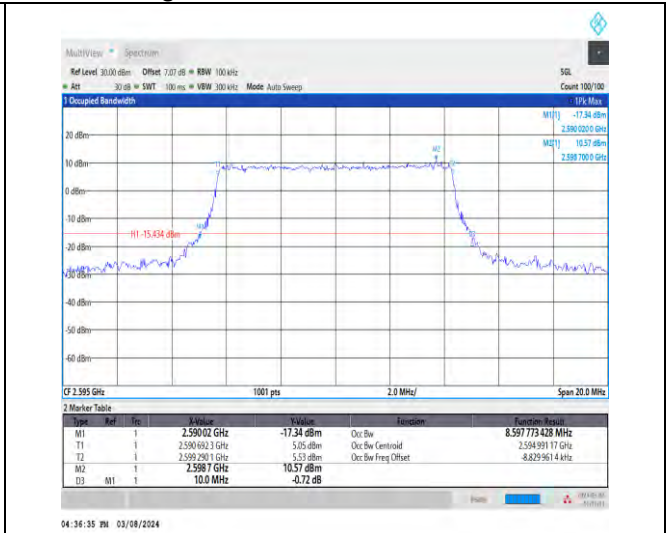
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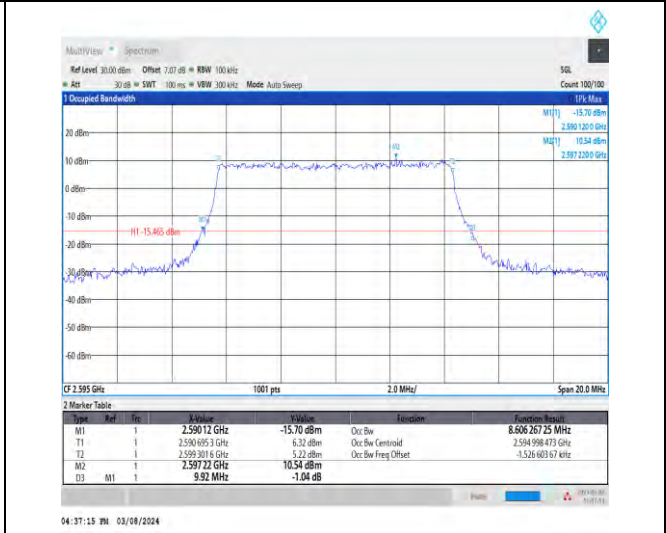
1-N38-30-10-M-5-DFT-256QAM-Outer\_Full-24@0-A  
nt1-8.583-9.700-≤10-PASS



1-N38-30-10-M-6-CP-QPSK-Outer\_Full-24@0-Ant1-  
8.598-10.000-≤10-PASS



1-N38-30-10-M-7-CP-16QAM-Outer\_Full-24@0-Ant  
1-8.607-10.020-≤10-PASS



1-N38-30-10-M-8-CP-64QAM-Outer\_Full-24@0-Ant1  
-8.606-9.920-≤10-PASS



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1-N38-30-10-M-9-CP-256QAM-Outer\_Full-24@0-An  
t1-8.574-9.600-≤10-PASS



1-N38-30-15-M-1-DFT-QPSK-Outer\_Full-36@0-Ant1  
-12.986-14.580-≤15-PASS



1-N38-30-15-M-2-DFT-PI2BPSK-Outer\_Full-36@0-A  
nt1-12.971-14.190-≤15-PASS



1-N38-30-15-M-3-DFT-16QAM-Outer\_Full-36@0-Ant  
1-13.031-14.820-≤15-PASS



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1-N38-30-15-M-4-DFT-64QAM-Outer\_Full-36@0-Ant  
1-12.971-14.580-≤15-PASS



1-N38-30-15-M-5-DFT-256QAM-Outer\_Full-36@0-A  
nt1-12.93-14.640-≤15-PASS



1-N38-30-15-M-6-CP-QPSK-Outer\_Full-38@0-Ant1-  
13.667-15.420-≤15-PASS



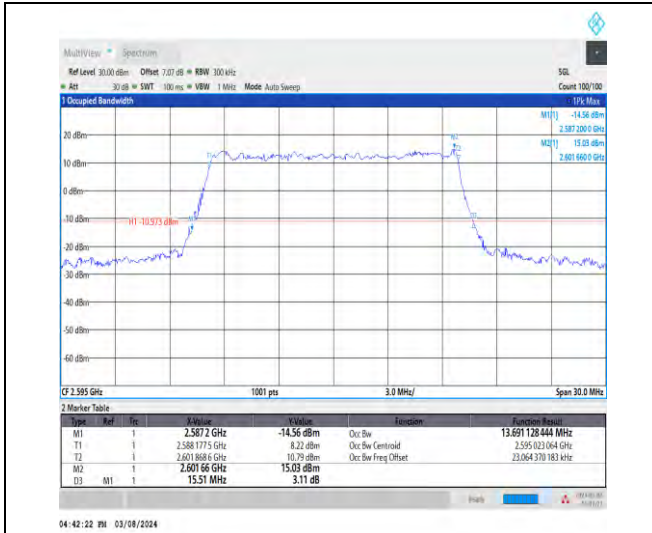
1-N38-30-15-M-7-CP-16QAM-Outer\_Full-38@0-Ant1  
-13.656-15.420-≤15-PASS



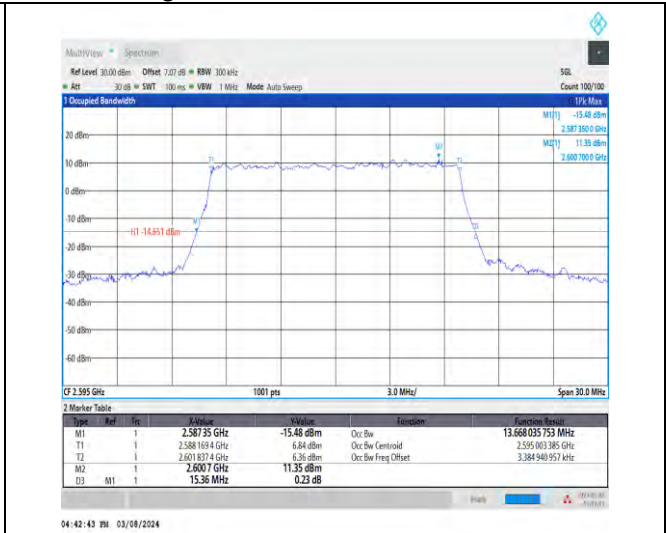
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1-N38-30-15-M-8-CP-64QAM-Outer\_Full-38@0-Ant  
1-13.691-15.510-≤15-PASS



1-N38-30-15-M-9-CP-256QAM-Outer\_Full-38@0-Ant  
1-13.668-15.360-≤15-PASS



1-N38-30-20-M-1-DFT-QPSK-Outer\_Full-50@0-Ant1  
-17.913-19.640-≤20-PASS



1-N38-30-20-M-2-DFT-PI2BPSK-Outer\_Full-50@0-Ant1  
-17.876-19.560-≤20-PASS

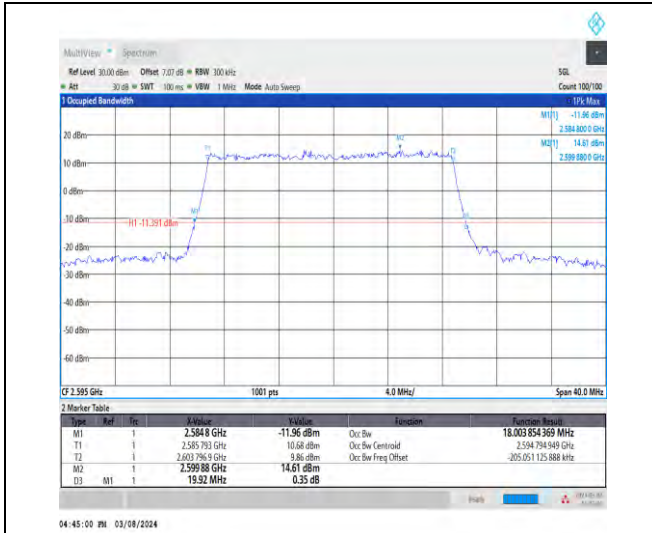


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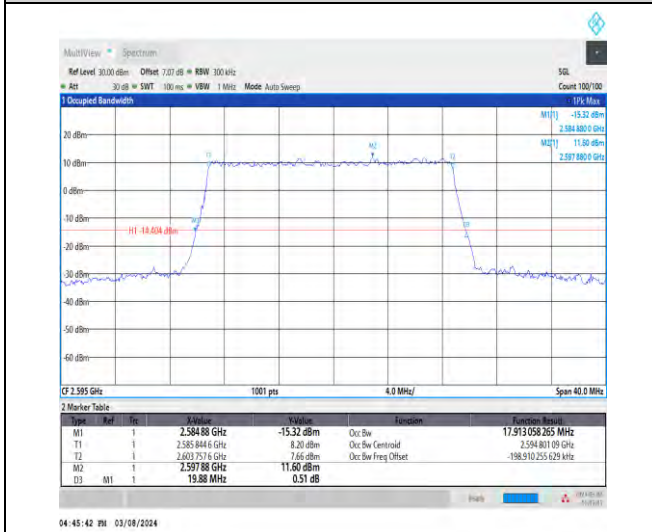




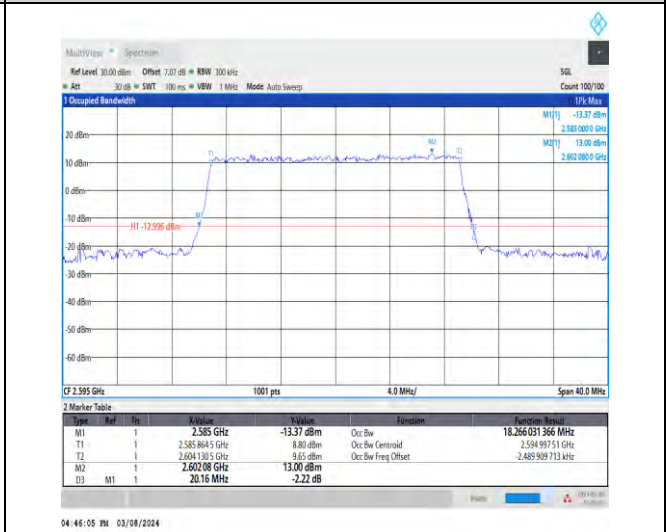
1-N38-30-20-M-3-DFT-16QAM-Outer\_Full-50@0-Ant  
1-18.004-19.920-≤20-PASS



1-N38-30-20-M-4-DFT-64QAM-Outer\_Full-50@0-Ant  
1-17.965-19.680-≤20-PASS



1-N38-30-20-M-5-DFT-256QAM-Outer\_Full-50@0-Ant  
1-17.913-19.880-≤20-PASS



1-N38-30-20-M-6-CP-QPSK-Outer\_Full-51@0-Ant  
1-18.266-20.160-≤20-PASS



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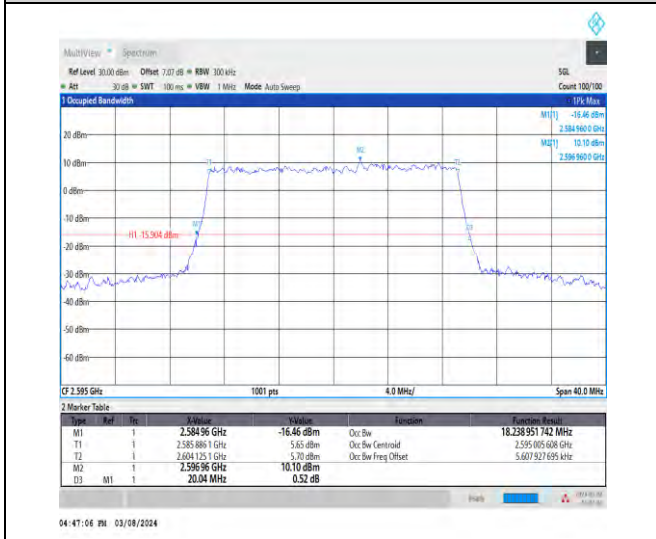
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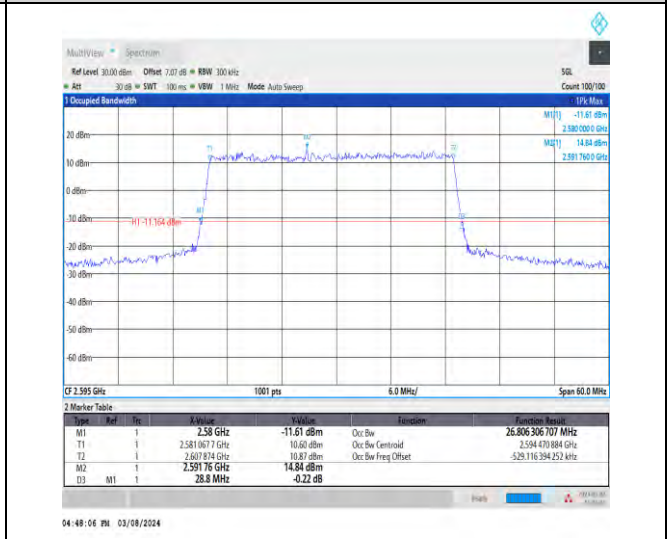
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1-18.295-20.080-≤20-PASS



1-N38-30-20-M-8-CP-64QAM-Outer\_Full-51@0-Ant1  
-18.205-20.160-≤20-PASS



1-N38-30-20-M-9-CP-256QAM-Outer\_Full-51@0-An  
t1-18.239-20.040-≤20-PASS



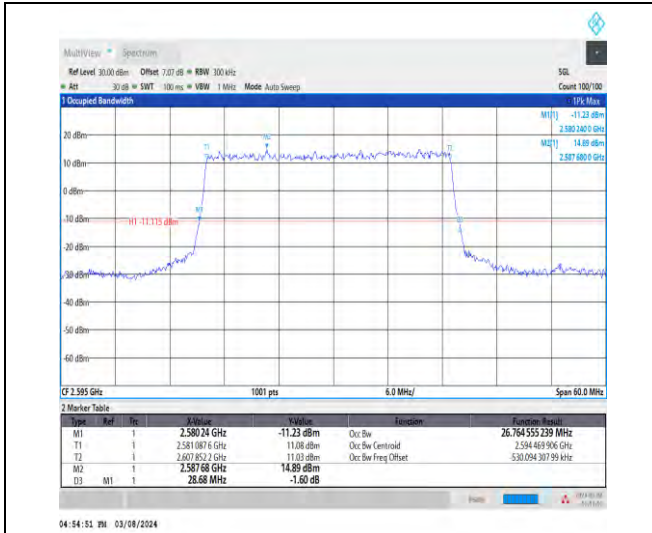
1-N38-30-30-M-1-DFT-QPSK-Outer\_Full-75@0-Ant1  
-26.806-28.800-≤30-PASS



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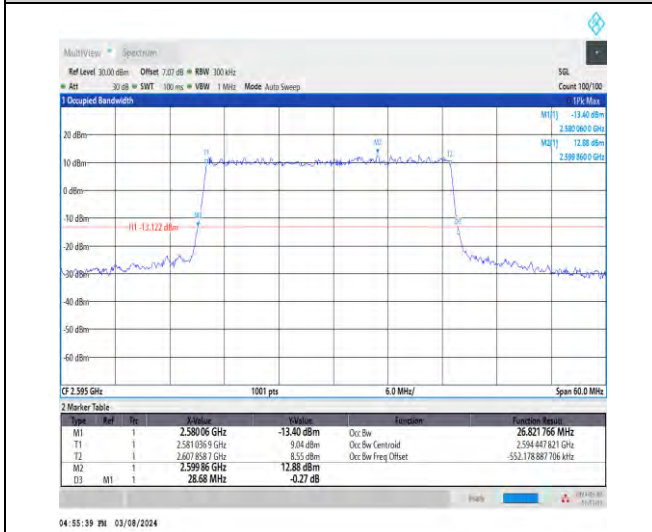




1-N38-30-30-M-2-DFT-PI2BPSK-Outer\_Full-75@0-A  
nt1-26.765-28.680-≤30-PASS



1-N38-30-30-M-3-DFT-16QAM-Outer\_Full-75@0-Ant  
1-26.891-28.860-≤30-PASS



1-N38-30-30-M-4-DFT-64QAM-Outer\_Full-75@0-Ant  
1-26.822-28.680-≤30-PASS



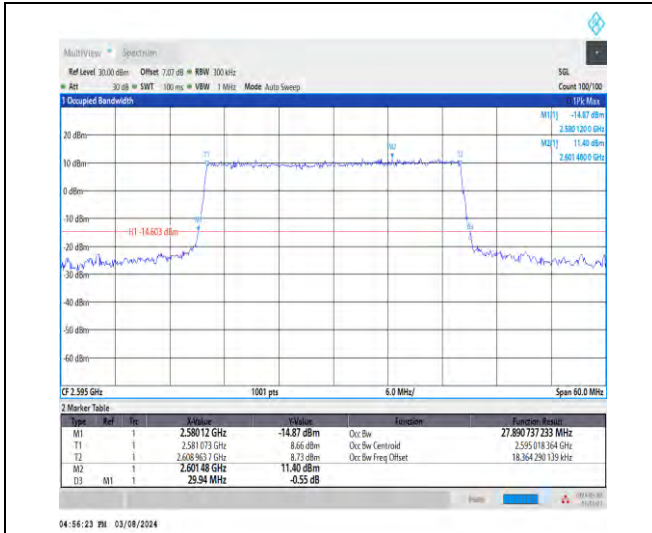
1-N38-30-30-M-5-DFT-256QAM-Outer\_Full-75@0-A  
nt1-26.838-28.680-≤30-PASS



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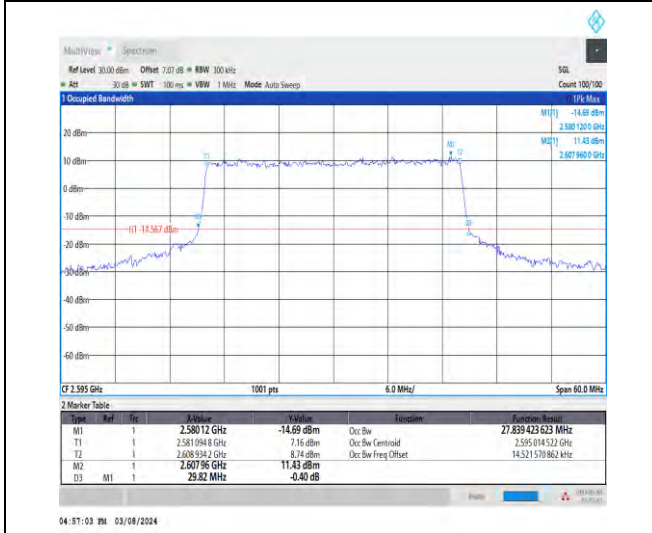
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1-N38-30-30-M-6-CP-QPSK-Outer\_Full-78@0-Ant1-27.891-29.940-≤30-PASS



1-N38-30-30-M-7-CP-16QAM-Outer\_Full-78@0-Ant1-27.902-30.000-≤30-PASS



1-N38-30-30-M-8-CP-64QAM-Outer\_Full-78@0-Ant1-1-27.839-29.820-≤30-PASS



1-N38-30-30-M-9-CP-256QAM-Outer\_Full-78@0-Ant1-1-27.899-29.700-≤30-PASS



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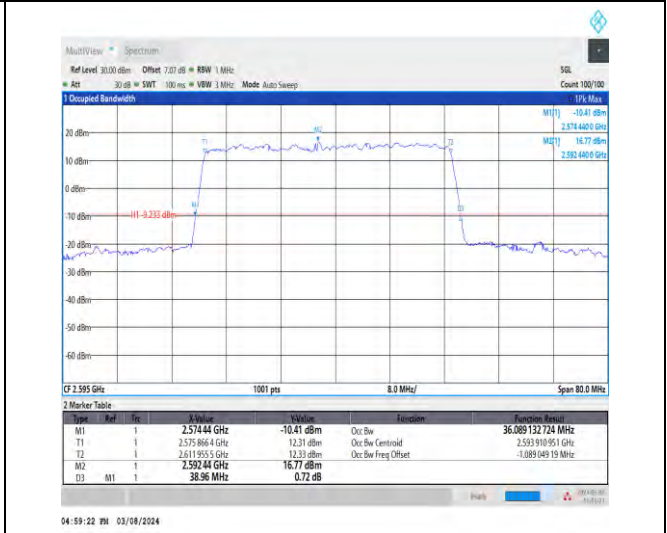
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1-36.042-39.200-≤40-PASS



1-N38-30-40-M-2-DFT-PI2BPSK-Outer\_Full-100@0-Ant  
1-36.035-38.800-≤40-PASS



1-N38-30-40-M-3-DFT-16QAM-Outer\_Full-100@0-A  
nt1-35.915-38.720-≤40-PASS



1-N38-30-40-M-4-DFT-64QAM-Outer\_Full-100@0-A  
nt1-36.089-38.960-≤40-PASS



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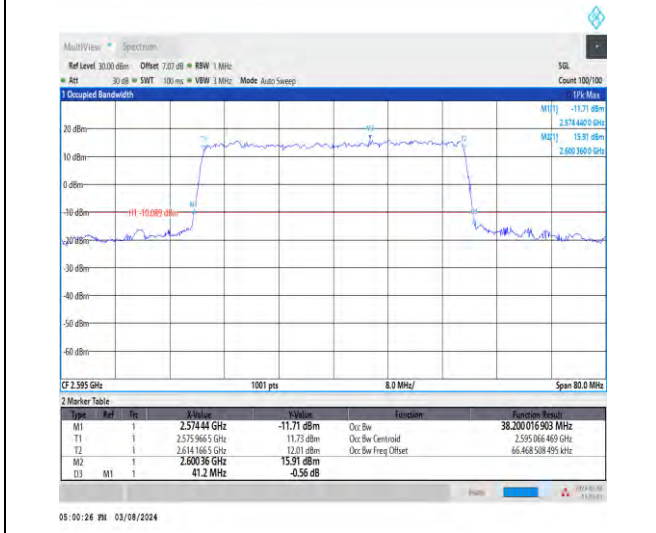
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1-N38-30-40-M-5-DFT-256QAM-Outer\_Full-100@0-Ant1-35.949-38.880-<math>\leq 40</math>-PASS

1-N38-30-40-M-6-CP-QPSK-Outer\_Full-106@0-Ant1-38.111-41.120-<math>\leq 40</math>-PASS



1-N38-30-40-M-7-CP-16QAM-Outer\_Full-106@0-Ant1-38.2-41.200-<math>\leq 40</math>-PASS

1-N38-30-40-M-8-CP-64QAM-Outer\_Full-106@0-Ant1-38.088-41.040-<math>\leq 40</math>-PASS



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1-N38-30-40-M-9-CP-256QAM-Outer\_Full-106@0-A  
nt1-38.055-41.120-≤40-PASS



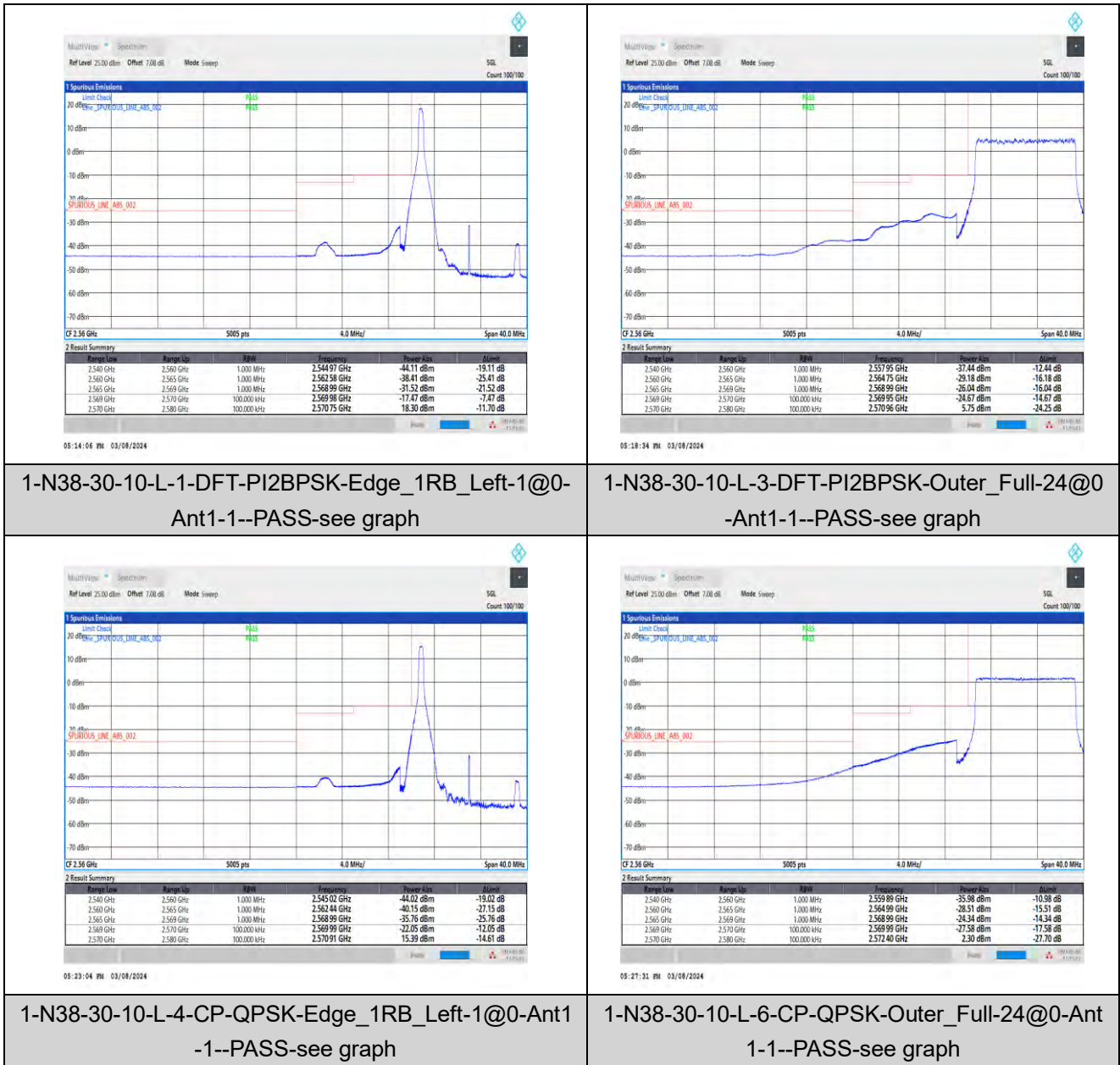
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### Band Edge for SA

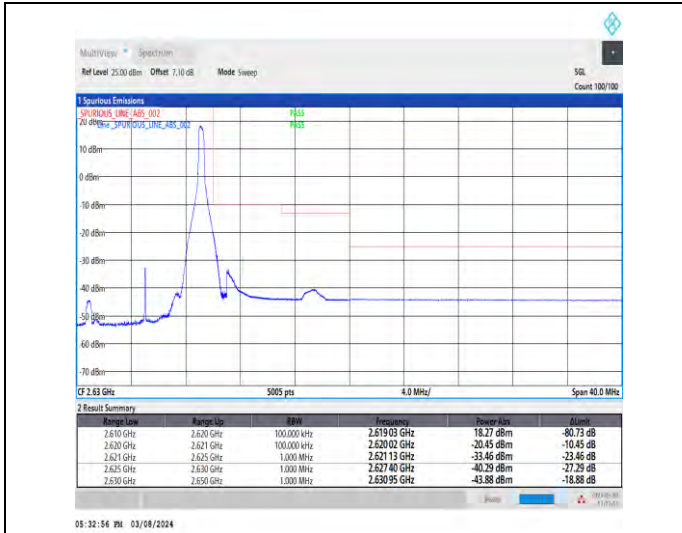
### Test Graphs



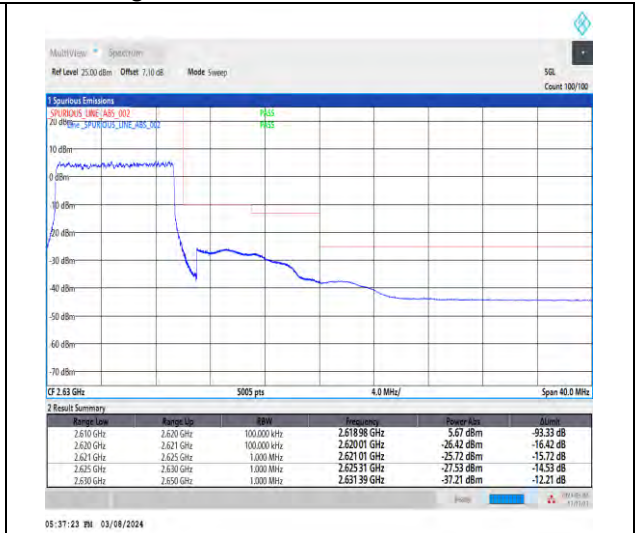
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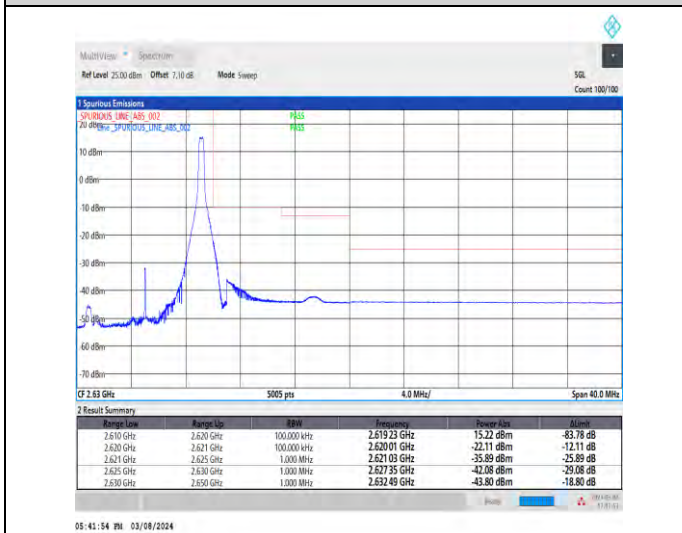
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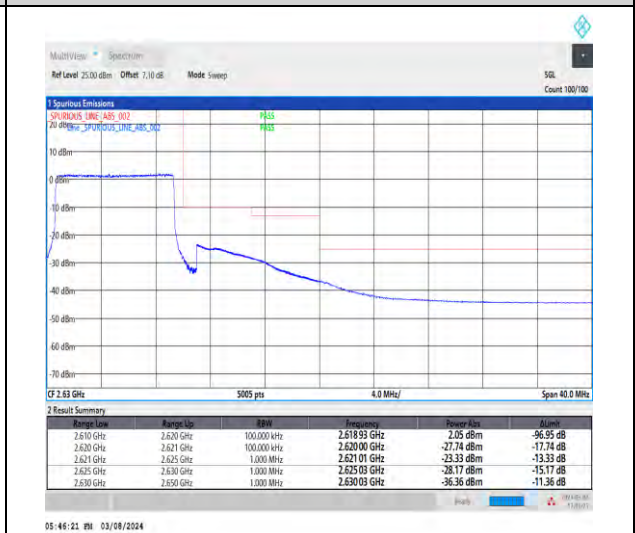
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1-N38-30-10-H-3-DFT-PI2BPSK-Outer\_Full-24@0-Ant1-1--PASS-see graph



1-N38-30-10-H-5-CP-QPSK-Edge\_1RB\_Right-1@23-Ant1-1--PASS-see graph



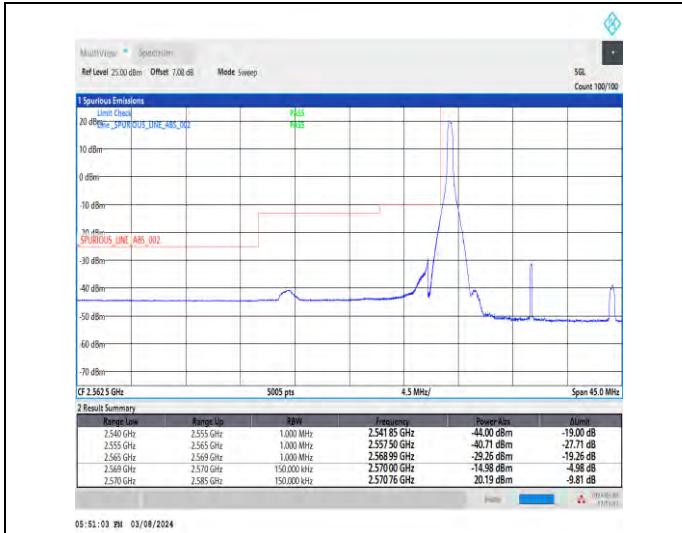
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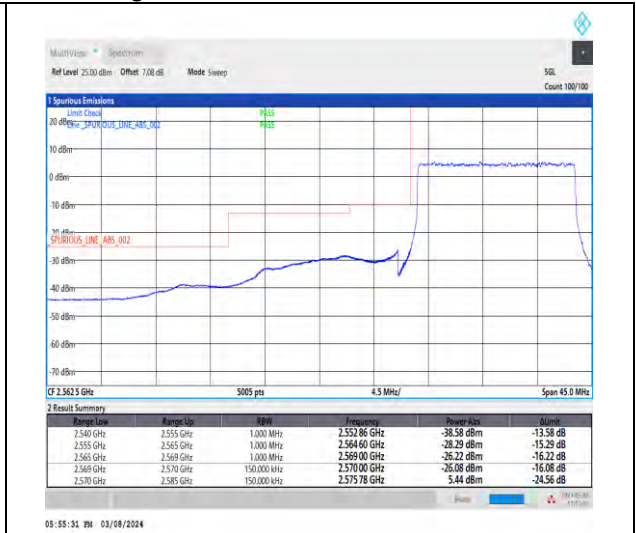
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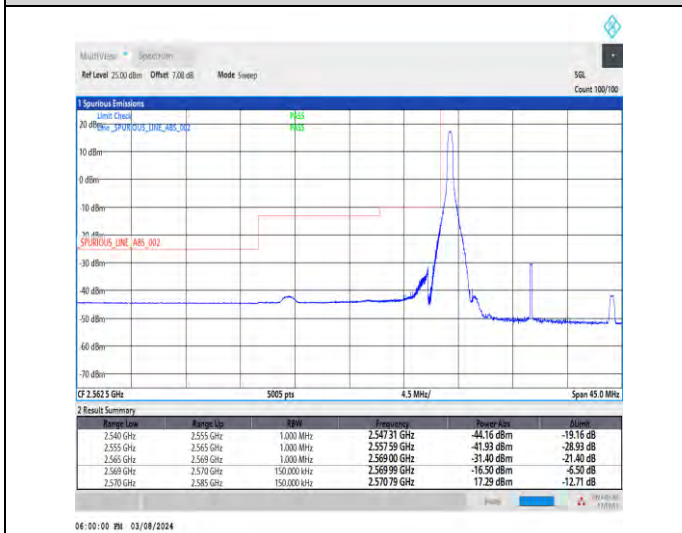




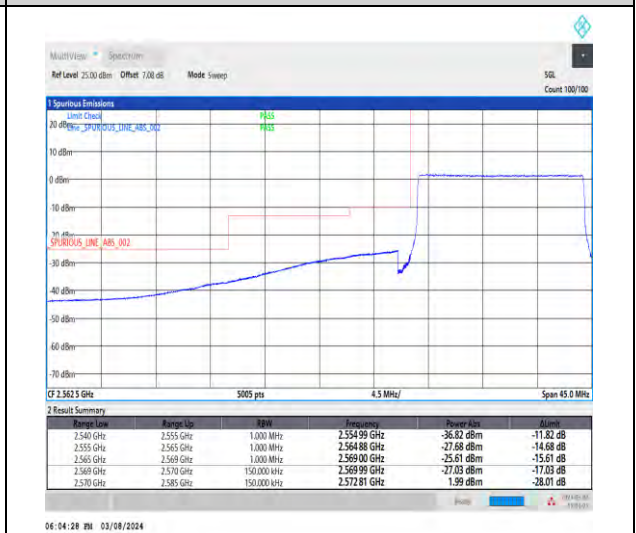
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1-N38-30-15-L-3-DFT-PI2BPSK-Outer\_Full-36@0-Ant1-1--PASS-see graph



1-N38-30-15-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph



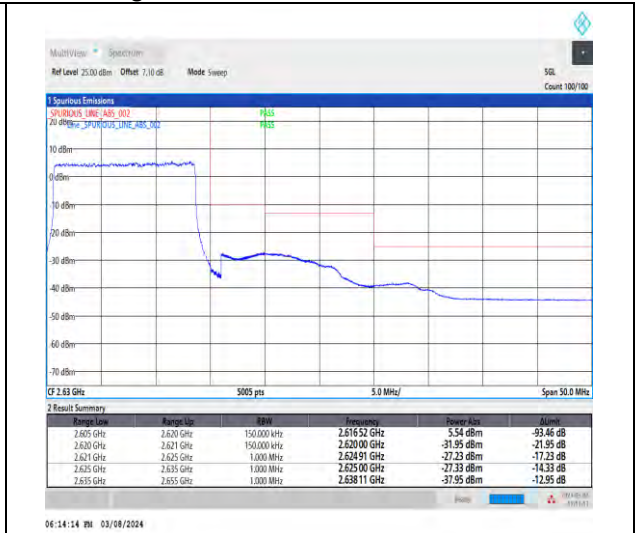
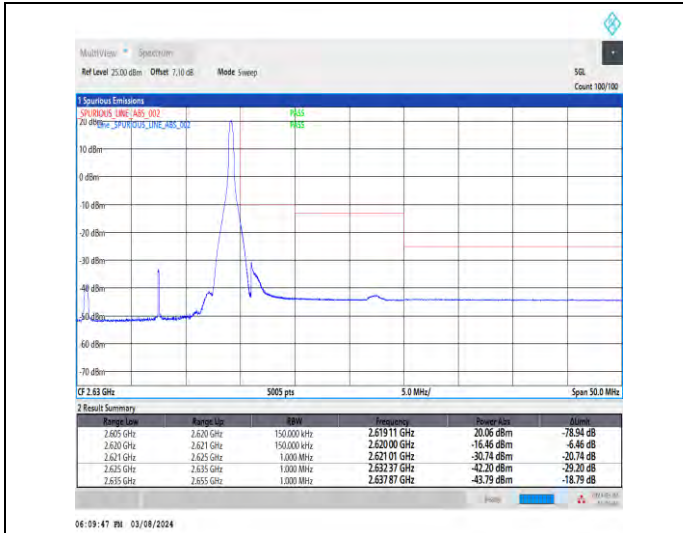
1-N38-30-15-L-6-CP-QPSK-Outer\_Full-38@0-Ant1-1--PASS-see graph



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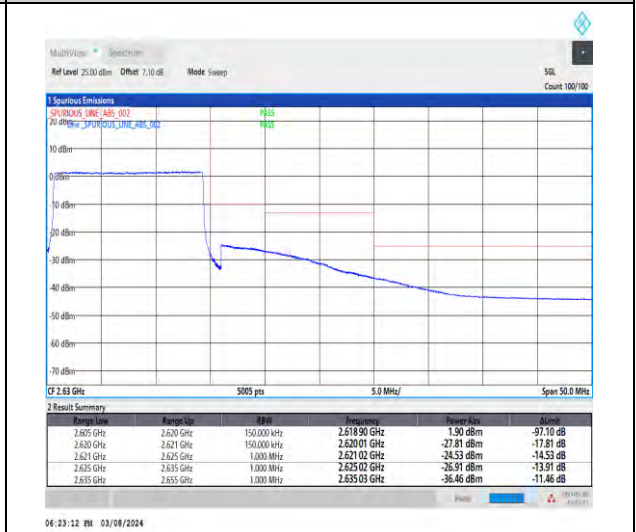
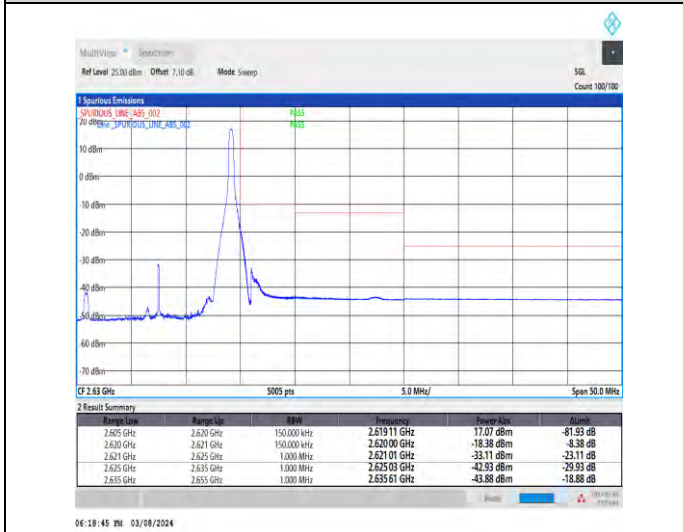
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1-N38-30-15-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@37-Ant1-1--PASS-see graph

1-N38-30-15-H-3-DFT-PI2BPSK-Outer\_Full-36@0-Ant1-1--PASS-see graph



1-N38-30-15-H-5-CP-QPSK-Edge\_1RB\_Right-1@37-Ant1-1--PASS-see graph

1-N38-30-15-H-6-CP-QPSK-Outer\_Full-38@0-Ant1-1--PASS-see graph

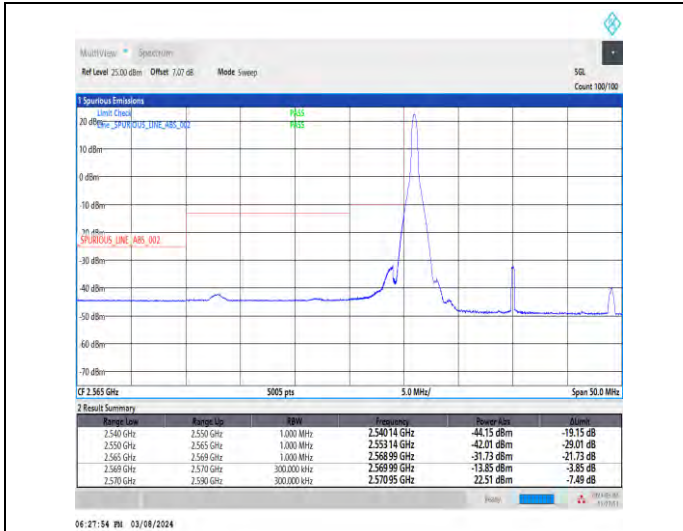


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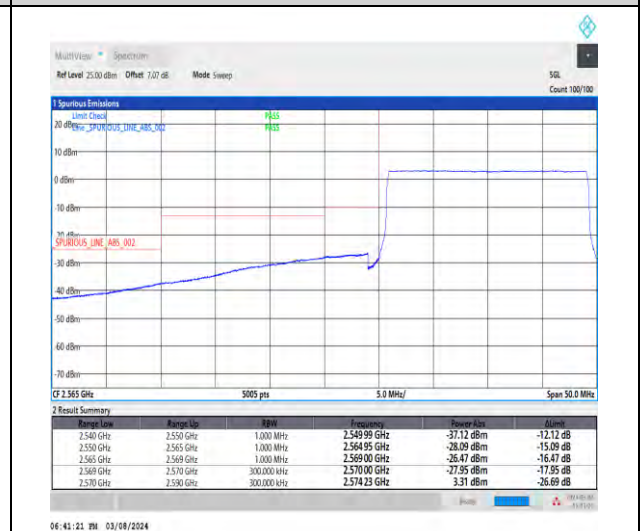
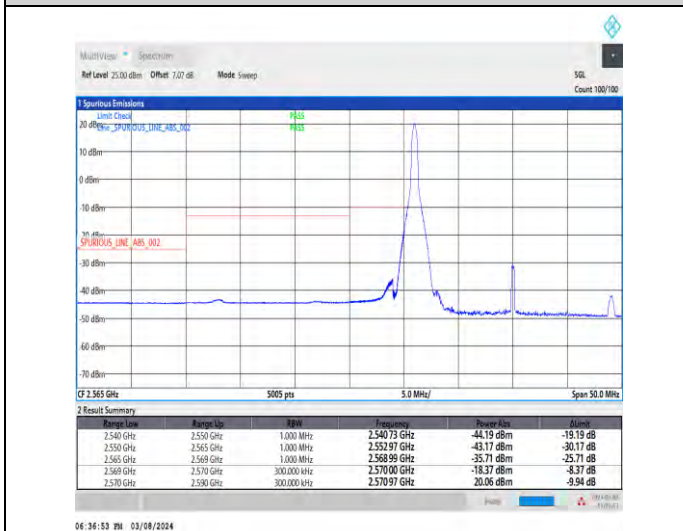
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1-N38-30-20-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph

1-N38-30-20-L-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-1--PASS-see graph



1-N38-30-20-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph

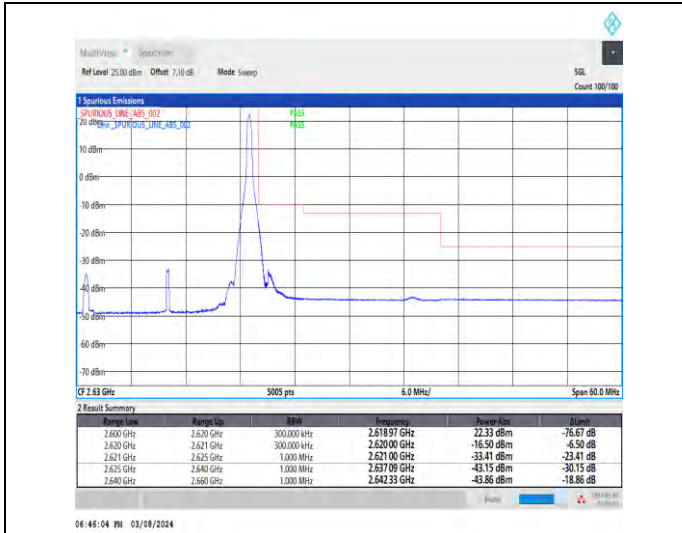
1-N38-30-20-L-6-CP-QPSK-Outer\_Full-51@0-Ant1-1--PASS-see graph



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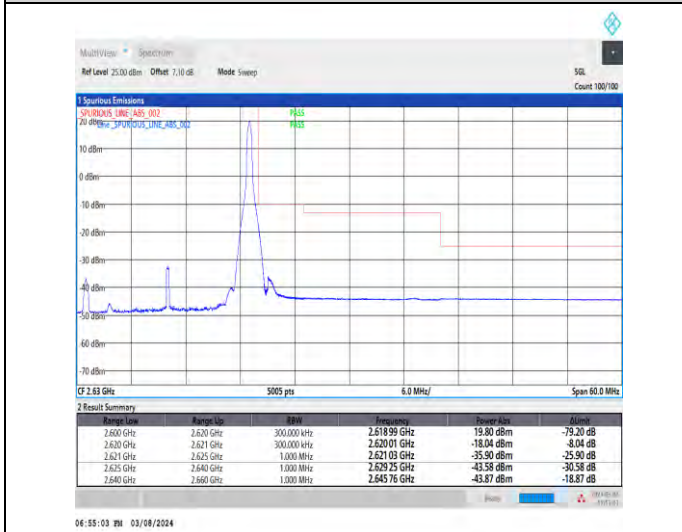




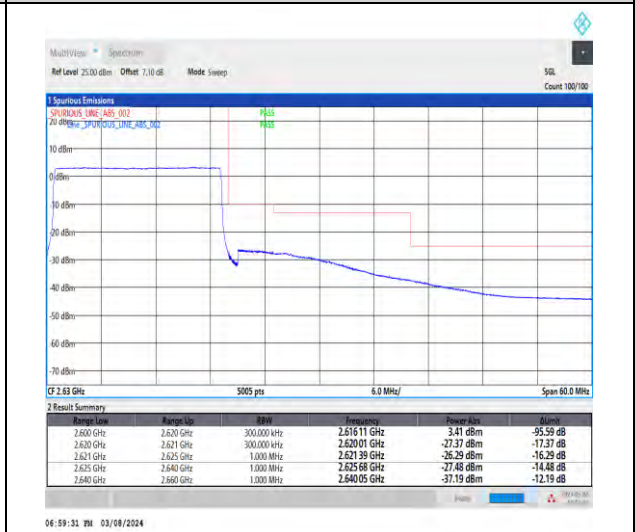
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1-N38-30-20-H-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-1--PASS-see graph



1-N38-30-20-H-5-CP-QPSK-Edge\_1RB\_Right-1@50-Ant1-1--PASS-see graph

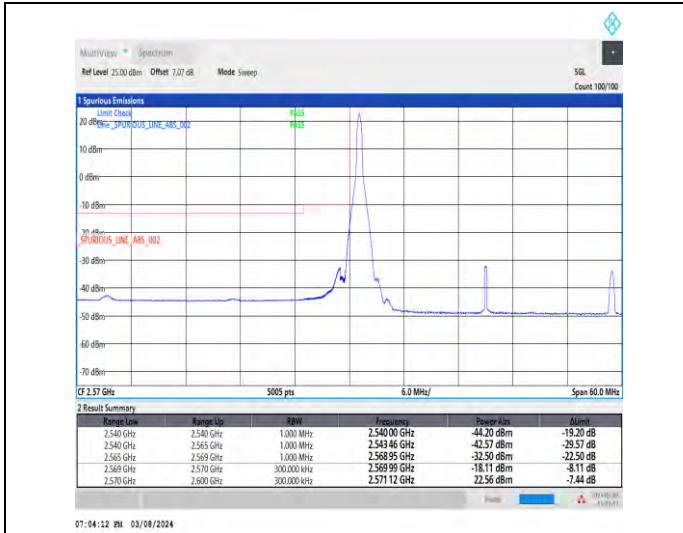


1-N38-30-20-H-6-CP-QPSK-Outer\_Full-51@0-Ant1-1--PASS-see graph

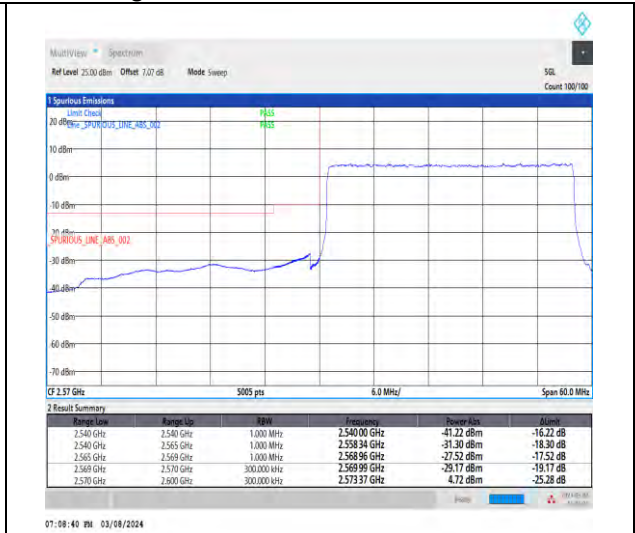


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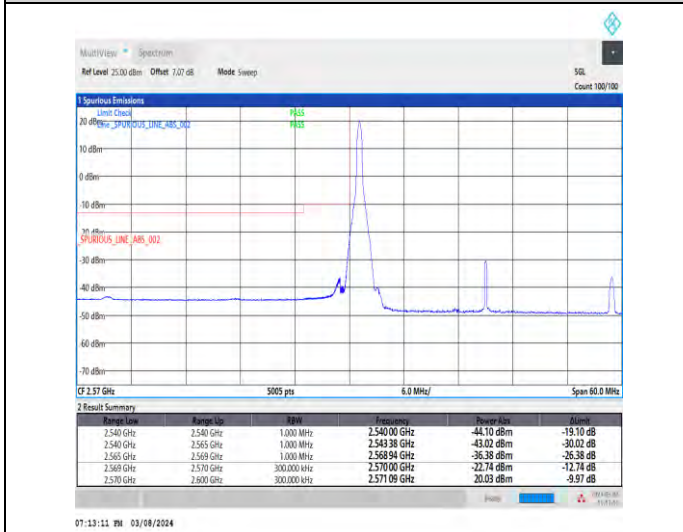
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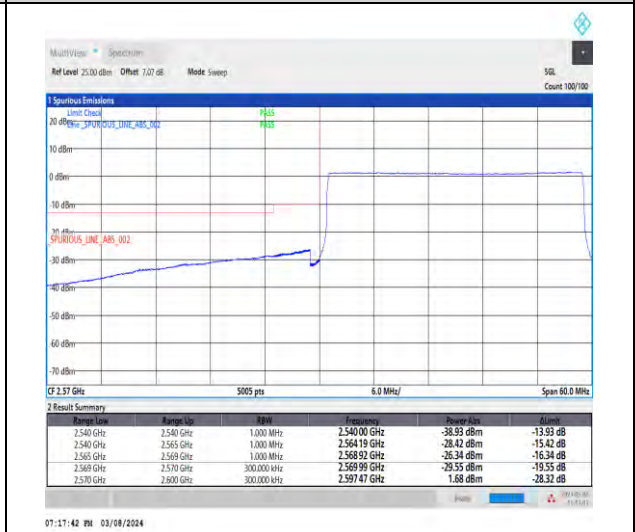
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1-N38-30-30-L-3-DFT-PI2BPSK-Outer\_Full-75@0-Ant1-1--PASS-see graph



1-N38-30-30-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph



1-N38-30-30-L-6-CP-QPSK-Outer\_Full-78@0-Ant1-1--PASS-see graph



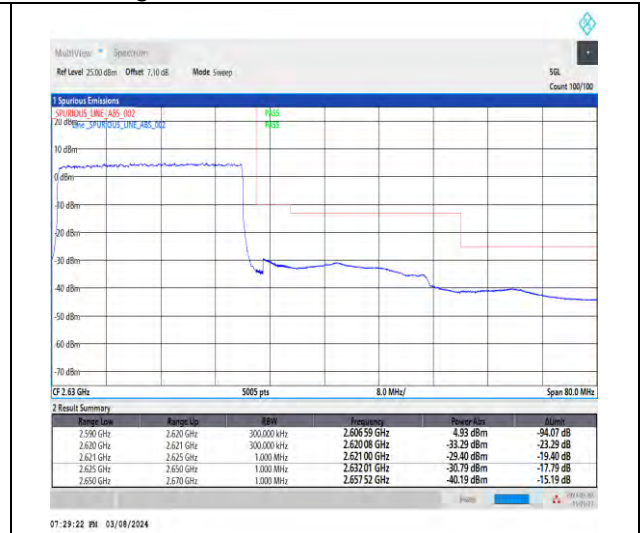
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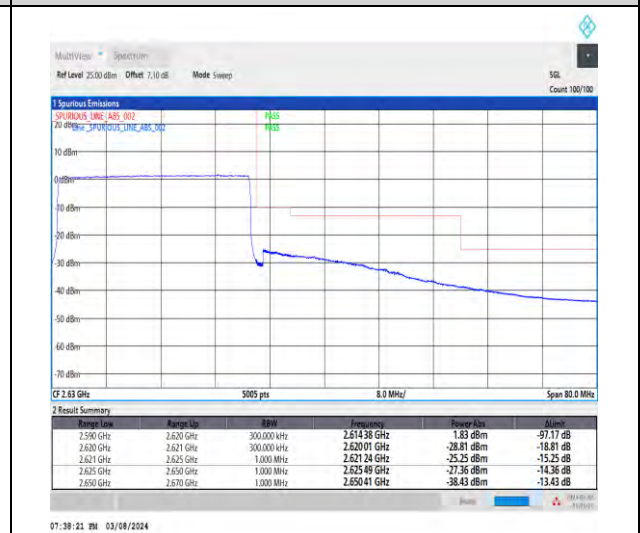
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1-N38-30-30-H-3-DFT-PI2BPSK-Outer\_Full-75@0-Ant1-1--PASS-see graph



1-N38-30-30-H-5-CP-QPSK-Edge\_1RB\_Right-1@77-Ant1-1--PASS-see graph



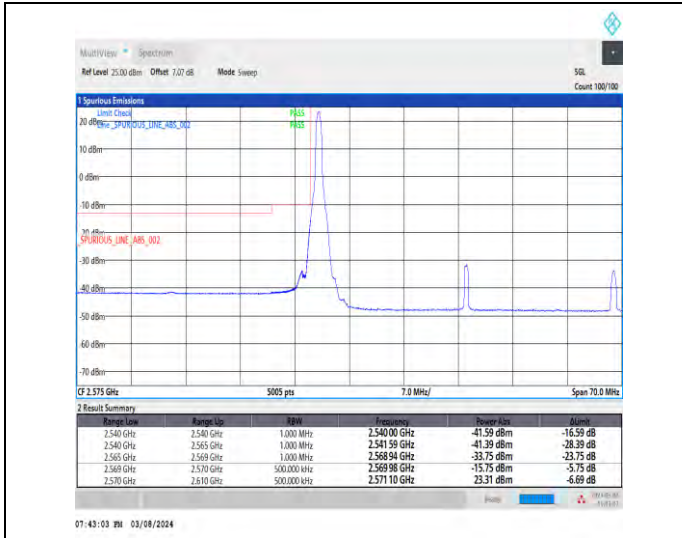
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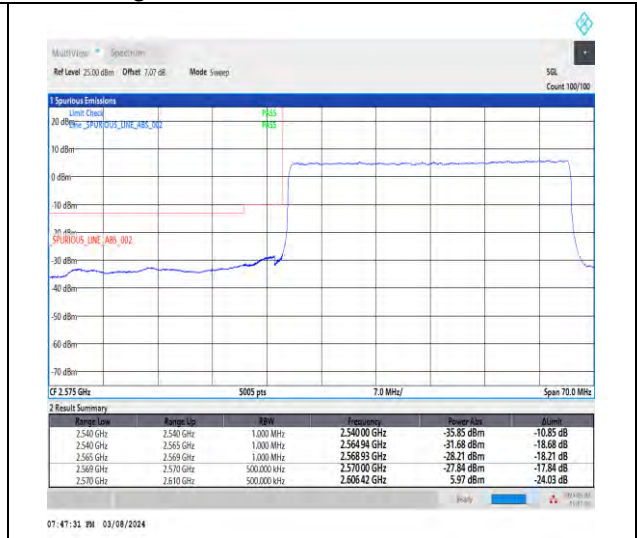
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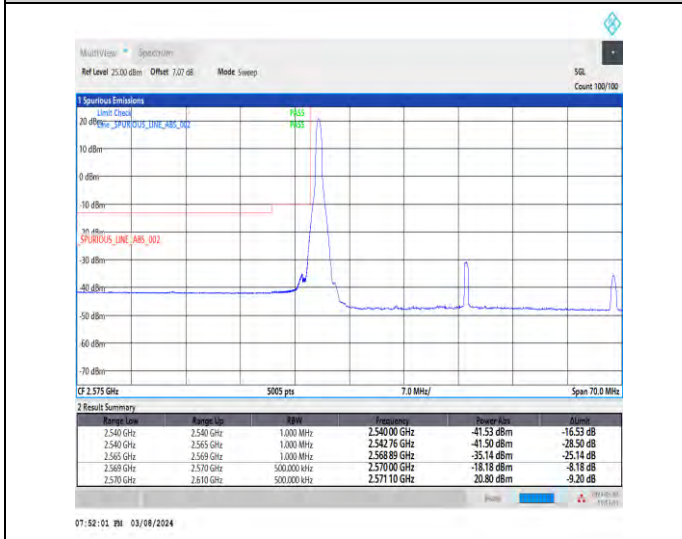




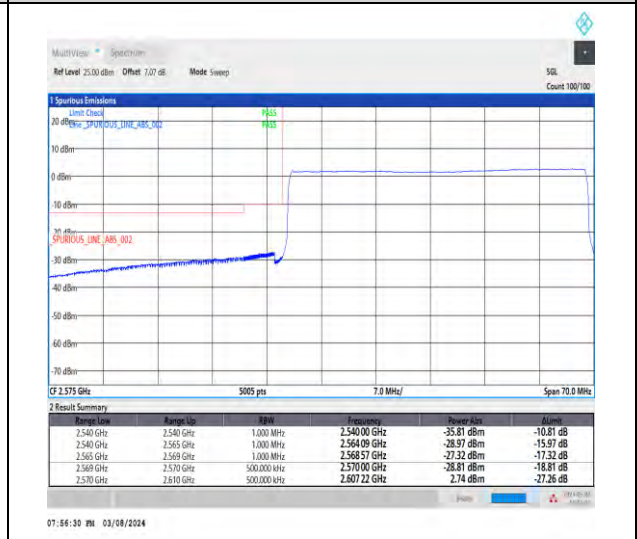
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1-N38-30-40-L-3-DFT-PI2BPSK-Outer\_Full-100@0-Ant1-1--PASS-see graph



1-N38-30-40-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph

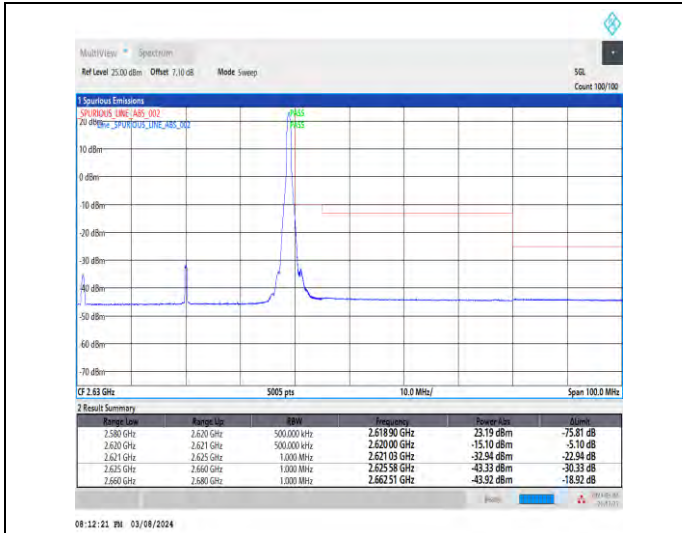


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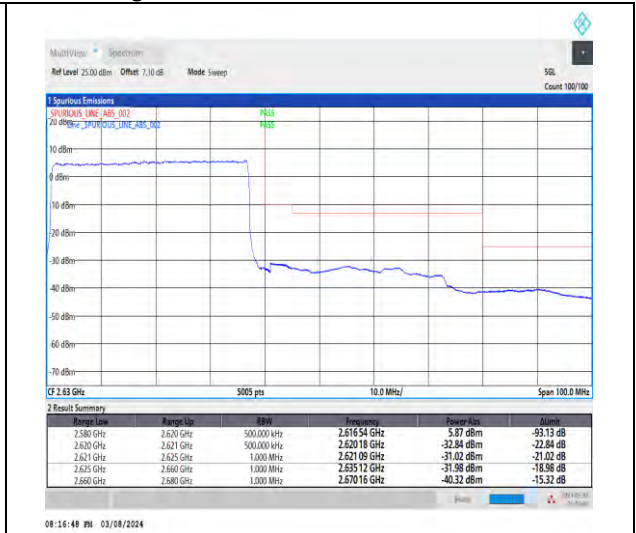


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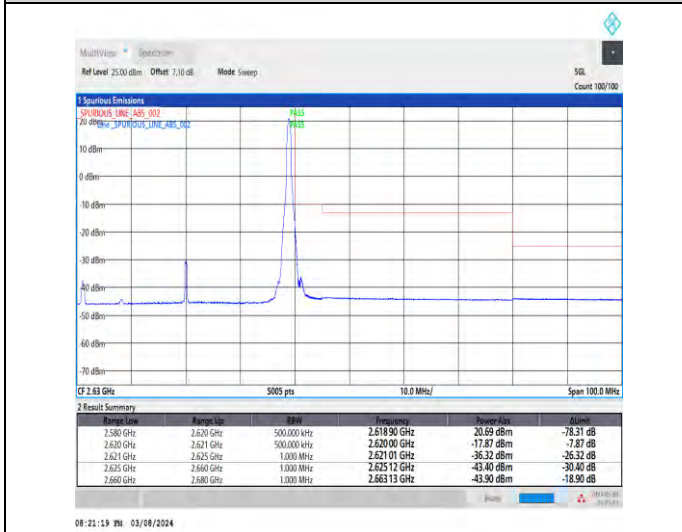
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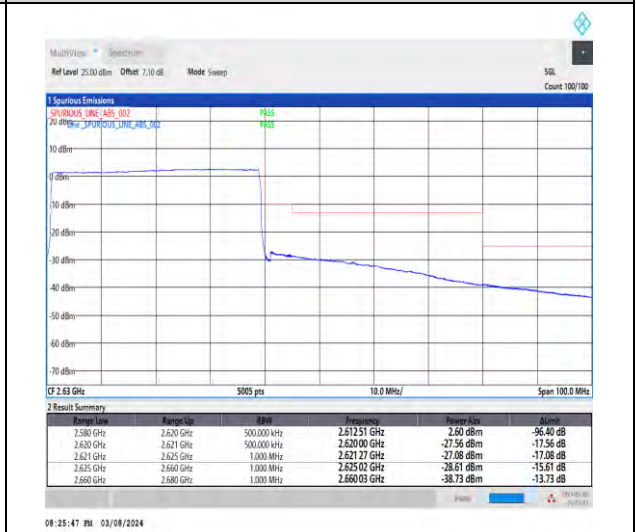
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1-N38-30-40-H-3-DFT-PI2BPSK-Outer\_Full-100@0-Ant1-1--PASS-see graph



1-N38-30-40-H-5-CP-QPSK-Edge\_1RB\_Right-1@105-Ant1-1--PASS-see graph



1-N38-30-40-H-6-CP-QPSK-Outer\_Full-106@0-Ant1-1--PASS-see graph



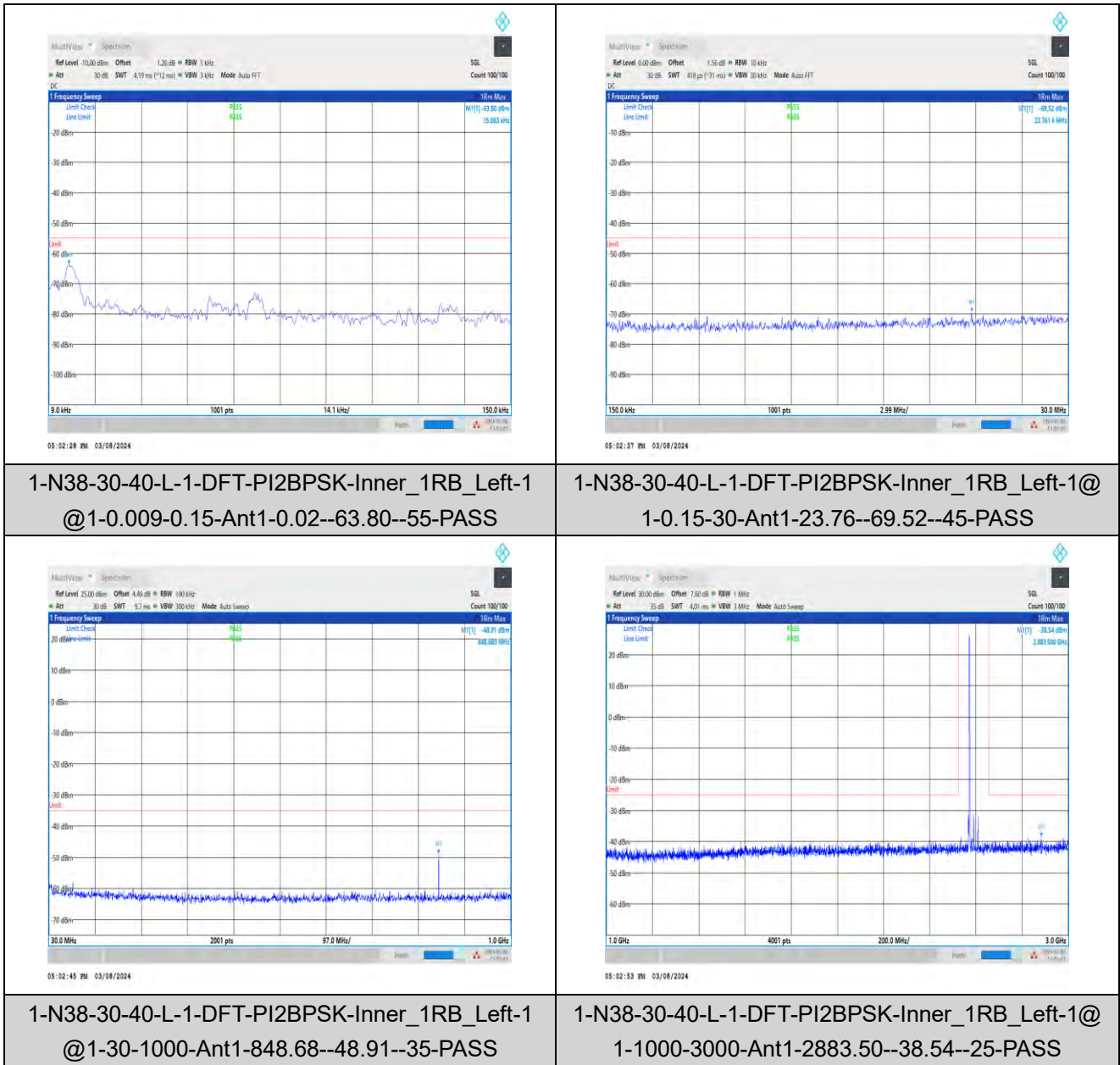
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## Conducted Spurious Emission for SA

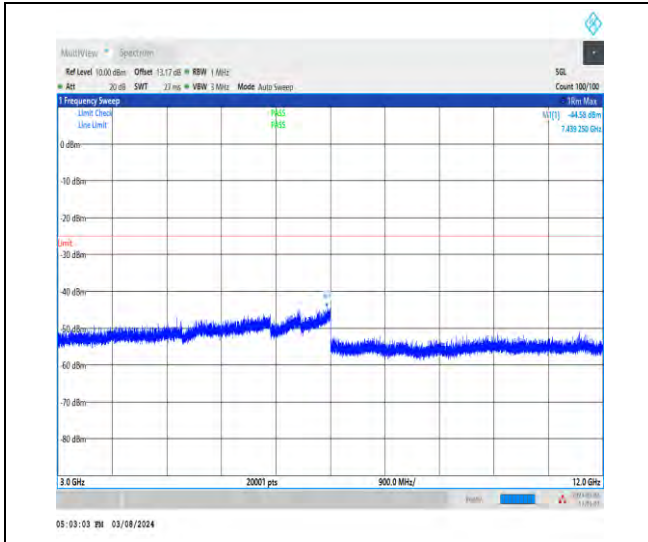
### Test Graphs



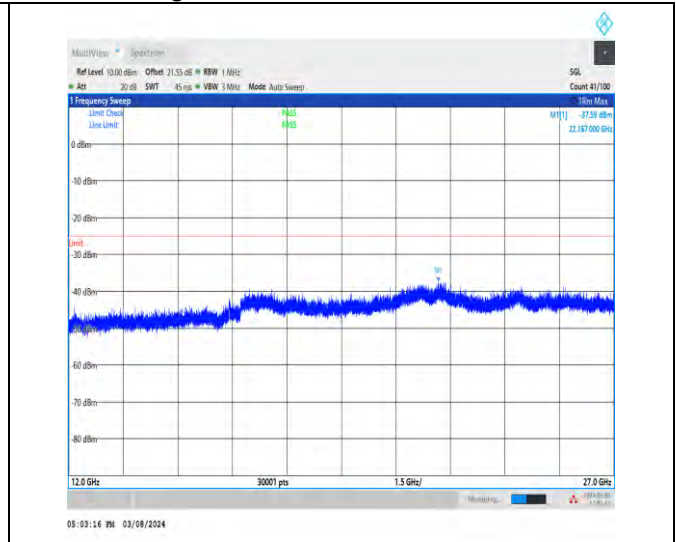
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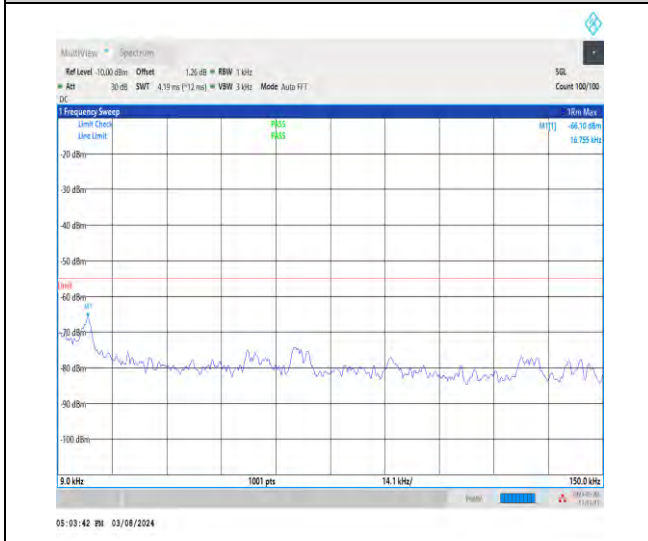




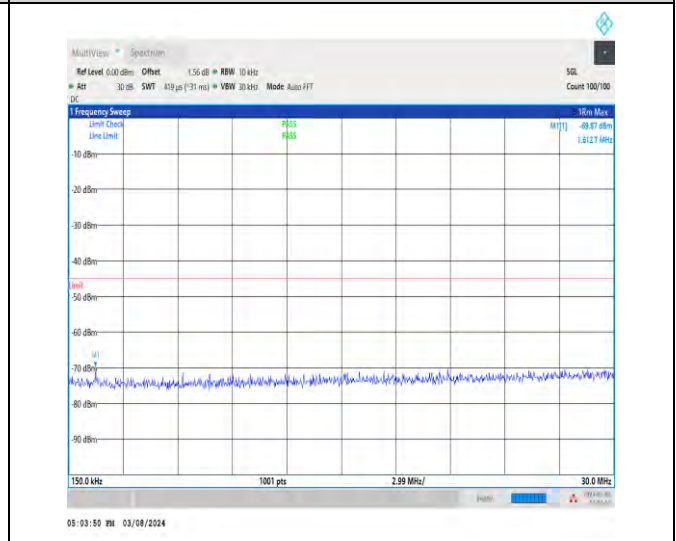
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@ 1-3000-12000-Ant1-7439.25--44.58--25-PASS



1-N38-30-40-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-12000-27000-Ant1-22167.00--37.59--25-PASS



1-N38-30-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@ 1-0.009-0.15-Ant1-0.02--66.10--55-PASS



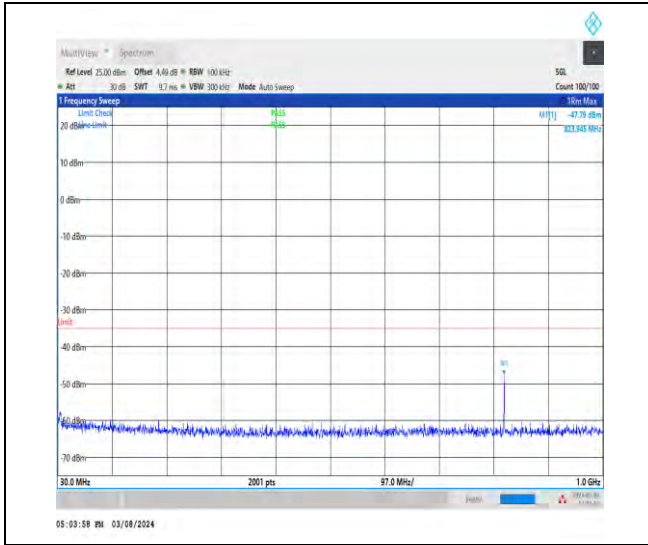
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1-0.15-30-Ant1-1.61--69.87--45-PASS



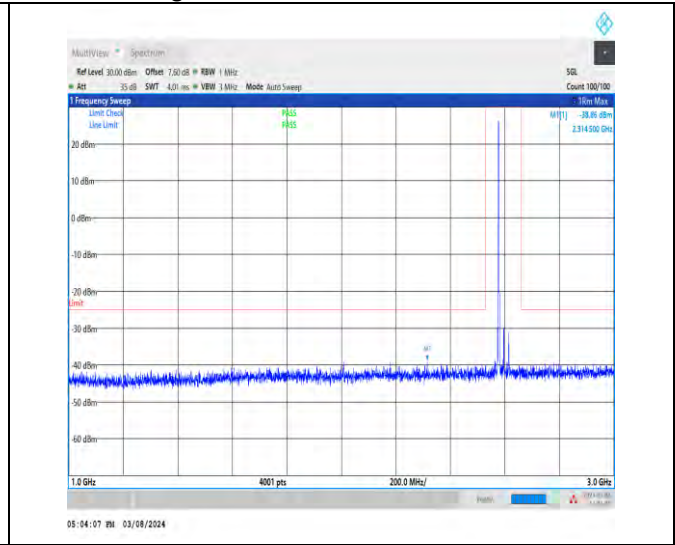
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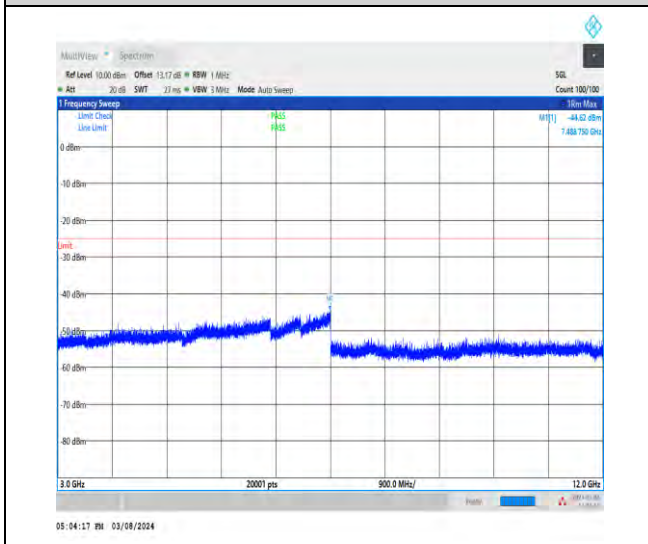
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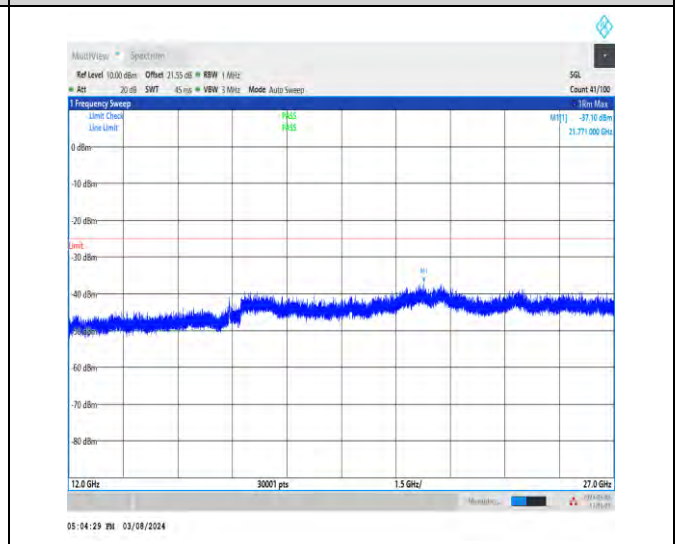
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@ 1-30-1000-Ant1-823.95--47.79--35-PASS



1-N38-30-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-1000-3000-Ant1-2314.50--38.86--25-PASS



1-N38-30-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@ 1-3000-12000-Ant1-7488.75--44.62--25-PASS



1-N38-30-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
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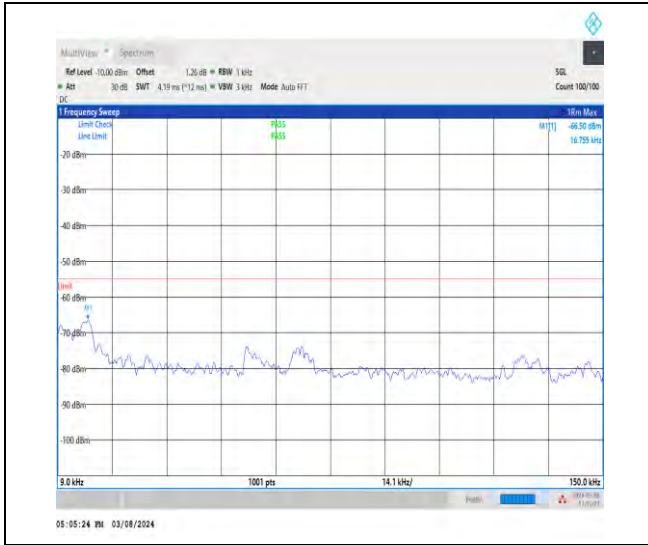


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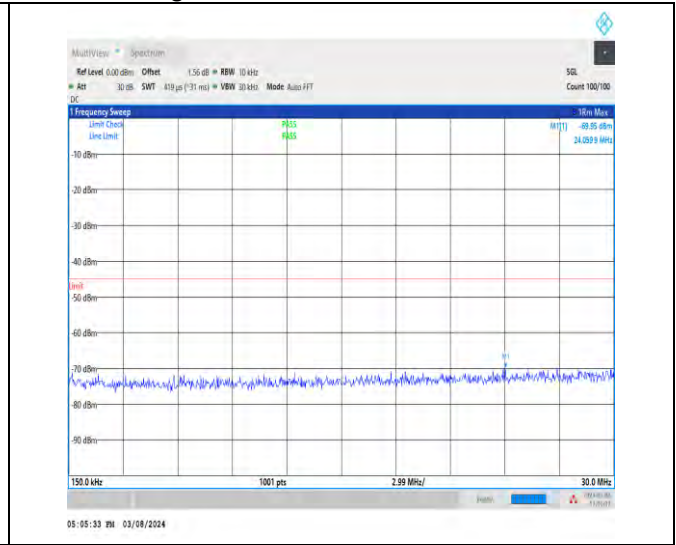
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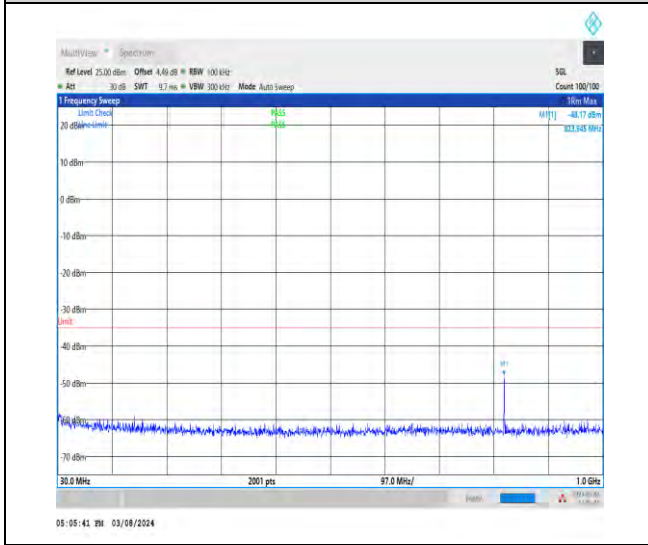




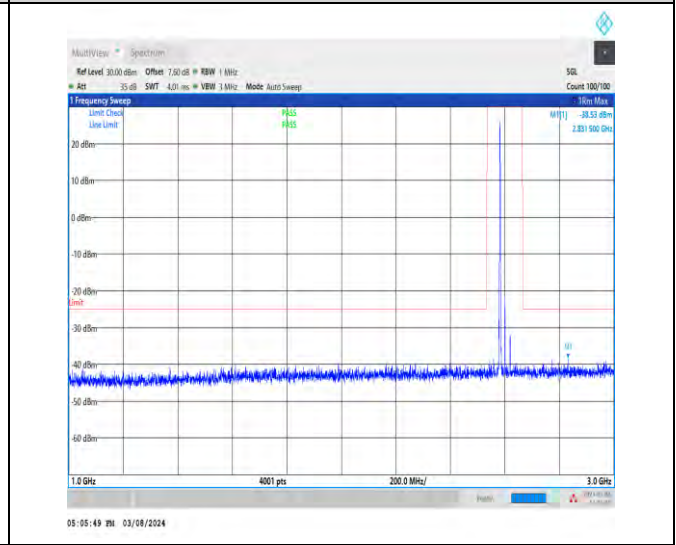
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1-N38-30-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-0.15-30-Ant1-24.06--69.95--45-PASS



1-N38-30-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-30-1000-Ant1-823.95--48.17--35-PASS



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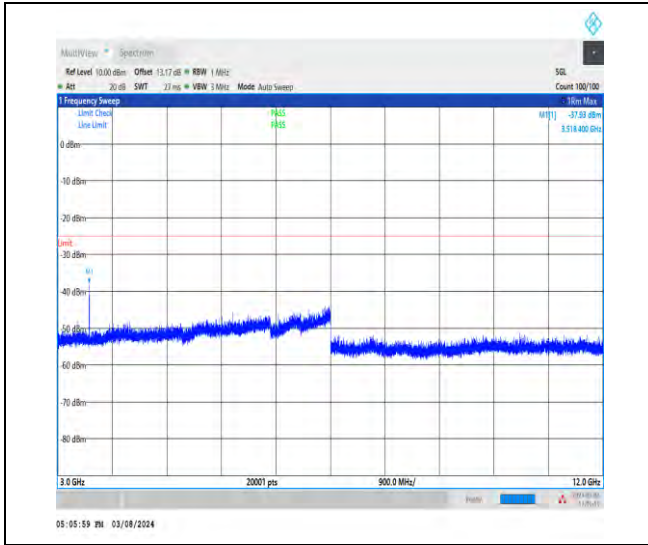


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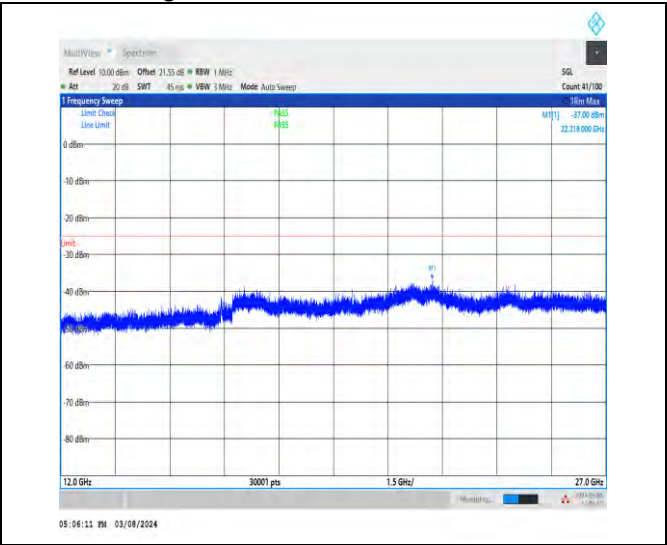
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1-N38-30-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@ 1-3000-12000-Ant1-3518.40--37.93--25-PASS



1-N38-30-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-12000-27000-Ant1-22218.00--37.00--25-PASS



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### Field Strength of Spurious Radiation

Test Band = SA Band 38\_ TM1

Test Channel = Low Channel \_ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17280	35.74	-37.28	40.69	-56.11	-25.00	31.11	Horizontal
2	5144.18	43.04	-47.85	31.85	-68.22	-25.00	43.22	Horizontal
3	7716.27	41.02	-45.16	36.54	-62.86	-25.00	37.86	Horizontal
4	10288.36	37.86	-41.26	38.76	-59.90	-25.00	34.90	Horizontal
5	12860.45	36.65	-39.38	38.68	-59.30	-25.00	34.30	Horizontal
6	15432.54	34.31	-37.50	39.28	-59.17	-25.00	34.17	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17400	35.19	-37.36	41.46	-55.97	-25.00	30.97	Vertical
2	5144.18	43.24	-47.85	31.85	-68.02	-25.00	43.02	Vertical
3	7716.27	41.25	-45.16	36.54	-62.63	-25.00	37.63	Vertical
4	10288.36	37.45	-41.26	38.76	-60.31	-25.00	35.31	Vertical
5	12860.45	36.06	-39.38	38.68	-59.89	-25.00	34.89	Vertical
6	15432.54	33.63	-37.50	39.28	-59.85	-25.00	34.85	Vertical



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Test Band = SA Band 38\_ TM1

Test Channel = Mid Channel \_ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17516	35.06	-36.82	42.20	-54.82	-25.00	29.82	Horizontal
2	5154.18	43.40	-47.86	31.87	-67.85	-25.00	42.85	Horizontal
3	7731.27	41.00	-45.12	36.52	-62.85	-25.00	37.85	Horizontal
4	10308.36	37.02	-41.16	38.78	-60.62	-25.00	35.62	Horizontal
5	12885.45	35.46	-39.41	38.67	-60.54	-25.00	35.54	Horizontal
6	15462.54	34.24	-37.76	39.22	-59.56	-25.00	34.56	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17448.5	34.87	-37.10	41.77	-55.72	-25.00	30.72	Vertical
2	5154.18	43.41	-47.86	31.87	-67.84	-25.00	42.84	Vertical
3	7731.27	41.75	-45.12	36.52	-62.10	-25.00	37.10	Vertical
4	10308.36	36.50	-41.16	38.78	-61.14	-25.00	36.14	Vertical
5	12885.45	35.81	-39.41	38.67	-60.19	-25.00	35.19	Vertical
6	15462.54	34.33	-37.76	39.22	-59.47	-25.00	34.47	Vertical



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**Test Band = SA Band 38\_ TM1**  
**Test Channel = High Channel \_ Worse ANT**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17746.5	34.77	-37.63	43.68	-54.44	-25.00	29.44	Horizontal
2	5164.18	43.40	-47.87	31.89	-67.83	-25.00	42.83	Horizontal
3	7746.27	41.88	-45.07	36.50	-61.95	-25.00	36.95	Horizontal
4	10328.36	37.51	-41.18	38.80	-60.13	-25.00	35.13	Horizontal
5	12910.45	36.37	-39.43	38.65	-59.66	-25.00	34.66	Horizontal
6	15492.54	33.33	-38.01	39.16	-60.78	-25.00	35.78	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17557.5	34.87	-36.83	42.47	-54.75	-25.00	29.75	Vertical
2	5164.18	42.77	-47.87	31.89	-68.46	-25.00	43.46	Vertical
3	7746.27	41.12	-45.07	36.50	-62.71	-25.00	37.71	Vertical
4	10328.36	37.76	-41.18	38.80	-59.88	-25.00	34.88	Vertical
5	12910.45	36.07	-39.43	38.65	-59.96	-25.00	34.96	Vertical
6	15492.54	34.48	-38.01	39.16	-59.63	-25.00	34.63	Vertical



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**Test Band = NSA 66A-N38A\_ TM1**  
**Test Channel = Low Channel \_ Worse ANT**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17515.5	35.55	-36.82	42.20	-54.33	-25.00	29.33	Horizontal
2	5144.18	43.18	-47.85	31.85	-68.08	-25.00	43.08	Horizontal
3	7716.27	41.45	-45.16	36.54	-62.43	-25.00	37.43	Horizontal
4	10288.36	37.65	-41.26	38.76	-60.11	-25.00	35.11	Horizontal
5	12860.45	36.31	-39.38	38.68	-59.64	-25.00	34.64	Horizontal
6	15432.54	34.03	-37.50	39.28	-59.45	-25.00	34.45	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17512.5	35.33	-36.82	42.18	-54.57	-25.00	29.57	Vertical
2	5144.18	43.65	-47.85	31.85	-67.61	-25.00	42.61	Vertical
3	7716.27	41.04	-45.16	36.54	-62.84	-25.00	37.84	Vertical
4	10288.36	38.11	-41.26	38.76	-59.65	-25.00	34.65	Vertical
5	12860.45	37.05	-39.38	38.68	-58.90	-25.00	33.90	Vertical
6	15432.54	34.59	-37.50	39.28	-58.89	-25.00	33.89	Vertical



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**Test Band = NSA 66A-N38A\_ TM1**  
**Test Channel = Mid Channel \_ Worse ANT**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17515.5	35.87	-36.82	42.20	-54.01	-25.00	29.01	Horizontal
2	5154.18	43.40	-47.86	31.87	-67.85	-25.00	42.85	Horizontal
3	7731.27	41.24	-45.12	36.52	-62.61	-25.00	37.61	Horizontal
4	10308.36	37.78	-41.16	38.78	-59.86	-25.00	34.86	Horizontal
5	12885.45	36.66	-39.41	38.67	-59.34	-25.00	34.34	Horizontal
6	15462.54	34.21	-37.76	39.22	-59.59	-25.00	34.59	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17515.5	35.38	-36.82	42.20	-54.50	-25.00	29.50	Vertical
2	5154.18	42.34	-47.86	31.87	-68.91	-25.00	43.91	Vertical
3	7731.27	41.52	-45.12	36.52	-62.33	-25.00	37.33	Vertical
4	10308.36	38.01	-41.16	38.78	-59.63	-25.00	34.63	Vertical
5	12885.45	35.84	-39.41	38.67	-60.16	-25.00	35.16	Vertical
6	15462.54	33.90	-37.76	39.22	-59.90	-25.00	34.90	Vertical



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**Test Band = NSA 66A-N38A\_ TM1**  
**Test Channel = High Channel \_ Worse ANT**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17568.5	35.05	-36.83	42.54	-54.50	-25.00	29.50	Horizontal
2	5164.18	43.50	-47.87	31.89	-67.73	-25.00	42.73	Horizontal
3	7746.27	41.58	-45.07	36.50	-62.25	-25.00	37.25	Horizontal
4	10328.36	37.76	-41.18	38.80	-59.88	-25.00	34.88	Horizontal
5	12910.45	36.21	-39.43	38.65	-59.82	-25.00	34.82	Horizontal
6	15492.54	33.95	-38.01	39.16	-60.16	-25.00	35.16	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17515.5	35.34	-36.82	42.20	-54.54	-25.00	29.54	Vertical
2	5164.18	43.86	-47.87	31.89	-67.37	-25.00	42.37	Vertical
3	7746.27	40.97	-45.07	36.50	-62.86	-25.00	37.86	Vertical
4	10328.36	38.08	-41.18	38.80	-59.56	-25.00	34.56	Vertical
5	12910.45	36.52	-39.43	38.65	-59.51	-25.00	34.51	Vertical
6	15492.54	33.95	-38.01	39.16	-60.16	-25.00	35.16	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:

$AF = \text{Antenna Factor(dB/m)}$

$\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier (dB)}$

$\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$

$\text{Margin} = \text{Limit} - \text{Level}$

2) All antennas of RSE are tested, and only the worst data is presented.



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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
N38	30	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	1.600000	0.000617	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	-4.700000	-0.001811	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	-4.300000	-0.001657	PASS
N38	30	40	CP-QPSK	M	Outer_Full	VH	NT	-1.300000	-0.000501	PASS
N38	30	40	CP-QPSK	M	Outer_Full	VN	NT	-2.700000	-0.001040	PASS
N38	30	40	CP-QPSK	M	Outer_Full	VL	NT	-8.400000	-0.003237	PASS



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**Frequency Error VS. Temperature**

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	-4.200000	-0.001618	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	-7.300000	-0.002813	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	-2.200000	-0.000848	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	0	-2.800000	-0.001079	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	10	2.300000	0.000886	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	20	-5.800000	-0.002235	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	30	-0.300000	-0.000116	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	40	-0.500000	-0.000193	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	50	-5.600000	-0.002158	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	-30	-3.200000	-0.001233	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	-20	-1.300000	-0.000501	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	-10	-6.900000	-0.002659	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	0	5.000000	0.001927	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	10	-2.400000	-0.000925	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	20	-1.100000	-0.000424	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	30	-6.800000	-0.002620	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	40	-0.200000	-0.000077	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	50	-0.900000	-0.000347	PASS

---End of Attachment---



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