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# Appendix B.31

## NR Band n14



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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	Verdict
N14	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	23.16	10.06	34.77	PASS
N14	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	23.16	10.06	34.77	PASS
N14	15	5	DFT-PI2BPSK	L	Outer_Full	22.74	9.64	34.77	PASS
N14	15	5	DFT-QPSK	L	Inner_1RB_Left	23.25	10.15	34.77	PASS
N14	15	5	DFT-QPSK	L	Inner_1RB_Right	23.2	10.1	34.77	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	22.21	9.11	34.77	PASS
N14	15	5	DFT-16QAM	L	Inner_1RB_Left	21.97	8.87	34.77	PASS
N14	15	5	DFT-16QAM	L	Inner_1RB_Right	21.86	8.76	34.77	PASS
N14	15	5	DFT-16QAM	L	Outer_Full	21.22	8.12	34.77	PASS
N14	15	5	DFT-64QAM	L	Inner_1RB_Left	20.55	7.45	34.77	PASS
N14	15	5	DFT-64QAM	L	Inner_1RB_Right	20.46	7.36	34.77	PASS
N14	15	5	DFT-64QAM	L	Outer_Full	20.65	7.55	34.77	PASS
N14	15	5	DFT-256QAM	L	Inner_1RB_Left	18.78	5.68	34.77	PASS
N14	15	5	DFT-256QAM	L	Inner_1RB_Right	18.72	5.62	34.77	PASS
N14	15	5	DFT-256QAM	L	Outer_Full	18.66	5.56	34.77	PASS
N14	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	23.21	10.11	34.77	PASS
N14	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	23.31	10.21	34.77	PASS
N14	15	5	DFT-PI2BPSK	M	Outer_Full	22.67	9.57	34.77	PASS
N14	15	5	DFT-QPSK	M	Inner_1RB_Left	23.24	10.14	34.77	PASS
N14	15	5	DFT-QPSK	M	Inner_1RB_Right	23.24	10.14	34.77	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	22.2	9.1	34.77	PASS
N14	15	5	DFT-16QAM	M	Inner_1RB_Left	21.9	8.8	34.77	PASS
N14	15	5	DFT-16QAM	M	Inner_1RB_Right	22.01	8.91	34.77	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	21.23	8.13	34.77	PASS
N14	15	5	DFT-64QAM	M	Inner_1RB_Left	20.5	7.4	34.77	PASS
N14	15	5	DFT-64QAM	M	Inner_1RB_Right	20.47	7.37	34.77	PASS
N14	15	5	DFT-64QAM	M	Outer_Full	20.71	7.61	34.77	PASS
N14	15	5	DFT-256QAM	M	Inner_1RB_Left	18.74	5.64	34.77	PASS
N14	15	5	DFT-256QAM	M	Inner_1RB_Right	18.78	5.68	34.77	PASS
N14	15	5	DFT-256QAM	M	Outer_Full	18.62	5.52	34.77	PASS
N14	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	23.36	10.26	34.77	PASS
N14	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	23.25	10.15	34.77	PASS



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N14	15	5	DFT-PI2BPSK	H	Outer_Full	23.12	10.02	34.77	PASS
N14	15	5	DFT-QPSK	H	Inner_1RB_Left	23.21	10.11	34.77	PASS
N14	15	5	DFT-QPSK	H	Inner_1RB_Right	23.27	10.17	34.77	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	22.23	9.13	34.77	PASS
N14	15	5	DFT-16QAM	H	Inner_1RB_Left	21.93	8.83	34.77	PASS
N14	15	5	DFT-16QAM	H	Inner_1RB_Right	21.94	8.84	34.77	PASS
N14	15	5	DFT-16QAM	H	Outer_Full	21.23	8.13	34.77	PASS
N14	15	5	DFT-64QAM	H	Inner_1RB_Left	20.49	7.39	34.77	PASS
N14	15	5	DFT-64QAM	H	Inner_1RB_Right	20.56	7.46	34.77	PASS
N14	15	5	DFT-64QAM	H	Outer_Full	20.7	7.6	34.77	PASS
N14	15	5	DFT-256QAM	H	Inner_1RB_Left	18.74	5.64	34.77	PASS
N14	15	5	DFT-256QAM	H	Inner_1RB_Right	18.79	5.69	34.77	PASS
N14	15	5	DFT-256QAM	H	Outer_Full	18.67	5.57	34.77	PASS
N14	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	23.23	10.13	34.77	PASS
N14	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	23.38	10.28	34.77	PASS
N14	15	10	DFT-PI2BPSK	L	Outer_Full	22.69	9.59	34.77	PASS
N14	15	10	DFT-QPSK	L	Inner_1RB_Left	23.25	10.15	34.77	PASS
N14	15	10	DFT-QPSK	L	Inner_1RB_Right	23.29	10.19	34.77	PASS
N14	15	10	DFT-QPSK	L	Outer_Full	22.19	9.09	34.77	PASS
N14	15	10	DFT-16QAM	L	Inner_1RB_Left	21.96	8.86	34.77	PASS
N14	15	10	DFT-16QAM	L	Inner_1RB_Right	22.03	8.93	34.77	PASS
N14	15	10	DFT-16QAM	L	Outer_Full	21.2	8.1	34.77	PASS
N14	15	10	DFT-64QAM	L	Inner_1RB_Left	20.46	7.36	34.77	PASS
N14	15	10	DFT-64QAM	L	Inner_1RB_Right	20.49	7.39	34.77	PASS
N14	15	10	DFT-64QAM	L	Outer_Full	20.69	7.59	34.77	PASS
N14	15	10	DFT-256QAM	L	Inner_1RB_Left	18.79	5.69	34.77	PASS
N14	15	10	DFT-256QAM	L	Inner_1RB_Right	18.93	5.83	34.77	PASS
N14	15	10	DFT-256QAM	L	Outer_Full	18.69	5.59	34.77	PASS
N14	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	23.24	10.14	34.77	PASS
N14	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	23.35	10.25	34.77	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	22.68	9.58	34.77	PASS
N14	15	10	DFT-QPSK	M	Inner_1RB_Left	23.24	10.14	34.77	PASS
N14	15	10	DFT-QPSK	M	Inner_1RB_Right	23.25	10.15	34.77	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	22.24	9.14	34.77	PASS
N14	15	10	DFT-16QAM	M	Inner_1RB_Left	21.94	8.84	34.77	PASS
N14	15	10	DFT-16QAM	M	Inner_1RB_Right	22	8.9	34.77	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	21.22	8.12	34.77	PASS



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N14	15	10	DFT-64QAM	M	Inner_1RB_Left	20.49	7.39	34.77	PASS
N14	15	10	DFT-64QAM	M	Inner_1RB_Right	20.54	7.44	34.77	PASS
N14	15	10	DFT-64QAM	M	Outer_Full	20.62	7.52	34.77	PASS
N14	15	10	DFT-256QAM	M	Inner_1RB_Left	18.77	5.67	34.77	PASS
N14	15	10	DFT-256QAM	M	Inner_1RB_Right	18.92	5.82	34.77	PASS
N14	15	10	DFT-256QAM	M	Outer_Full	18.69	5.59	34.77	PASS
N14	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	23.18	10.08	34.77	PASS
N14	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	23.34	10.24	34.77	PASS
N14	15	10	DFT-PI2BPSK	H	Outer_Full	22.72	9.62	34.77	PASS
N14	15	10	DFT-QPSK	H	Inner_1RB_Left	23.29	10.19	34.77	PASS
N14	15	10	DFT-QPSK	H	Inner_1RB_Right	23.3	10.2	34.77	PASS
N14	15	10	DFT-QPSK	H	Outer_Full	22.22	9.12	34.77	PASS
N14	15	10	DFT-16QAM	H	Inner_1RB_Left	21.91	8.81	34.77	PASS
N14	15	10	DFT-16QAM	H	Inner_1RB_Right	22.01	8.91	34.77	PASS
N14	15	10	DFT-16QAM	H	Outer_Full	21.21	8.11	34.77	PASS
N14	15	10	DFT-64QAM	H	Inner_1RB_Left	20.53	7.43	34.77	PASS
N14	15	10	DFT-64QAM	H	Inner_1RB_Right	20.56	7.46	34.77	PASS
N14	15	10	DFT-64QAM	H	Outer_Full	20.69	7.59	34.77	PASS
N14	15	10	DFT-256QAM	H	Inner_1RB_Left	18.83	5.73	34.77	PASS
N14	15	10	DFT-256QAM	H	Inner_1RB_Right	18.84	5.74	34.77	PASS
N14	15	10	DFT-256QAM	H	Outer_Full	18.65	5.55	34.77	PASS



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## Peak-to-Average Ratio for SA

## Peak-to-Average Ratio(PAPR)

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	DutyCycle	Factor	Result	Limit	Verdict
N14	15	10	DFT-256QAM	M	Outer_Full	100%	0.00	8.45	≤13	PASS
N14	15	10	CP-256QAM	M	Outer_Full	100%	0.00	9.48	≤13	PASS



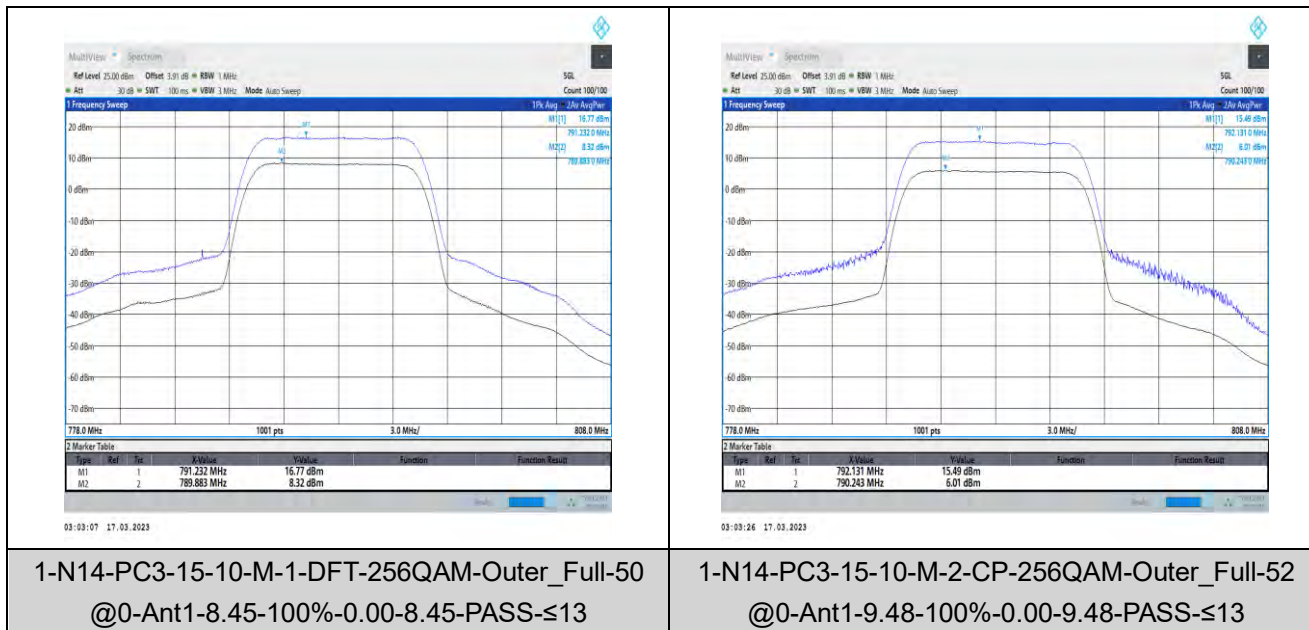
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Test Graphs



1-N14-PC3-15-10-M-1-DFT-256QAM-Outer\_Full-50  
 @0-Ant1-8.45-100%-0.00-8.45-PASS-≤13

1-N14-PC3-15-10-M-2-CP-256QAM-Outer\_Full-52  
 @0-Ant1-9.48-100%-0.00-9.48-PASS-≤13



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## Modulation characteristics for SA

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N14	15	10	DFT-PI2BPSK	M	Outer_Full	see graph	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	see graph	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	see graph	PASS
N14	15	10	DFT-64QAM	M	Outer_Full	see graph	PASS
N14	15	10	DFT-256QAM	M	Outer_Full	see graph	PASS
N14	15	10	CP-QPSK	M	Outer_Full	see graph	PASS
N14	15	10	CP-16QAM	M	Outer_Full	see graph	PASS
N14	15	10	CP-64QAM	M	Outer_Full	see graph	PASS
N14	15	10	CP-256QAM	M	Outer_Full	see graph	PASS



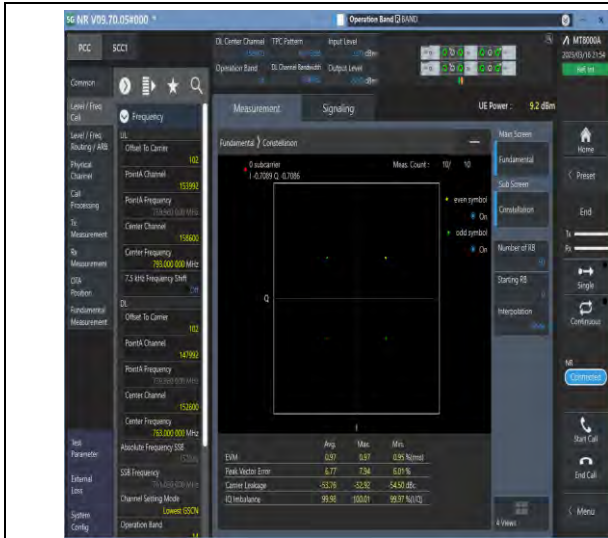
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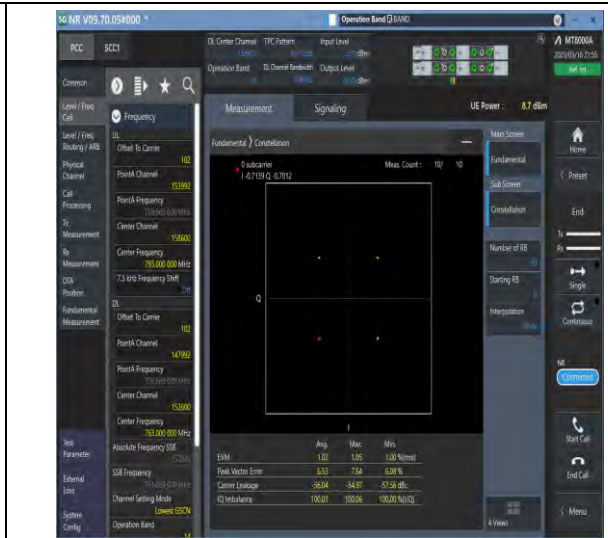
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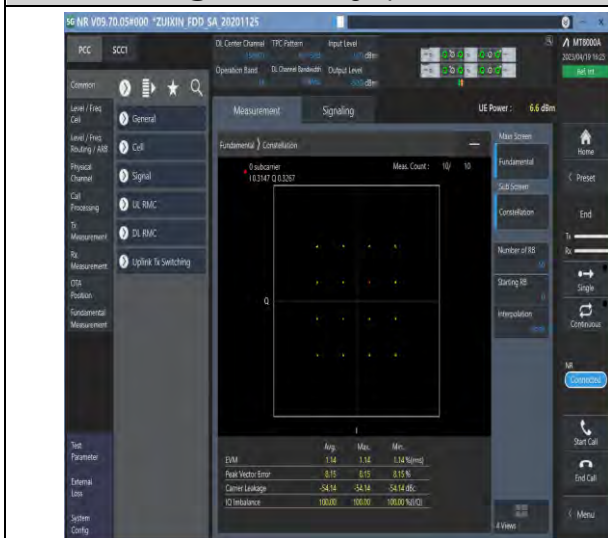
Test Graphs



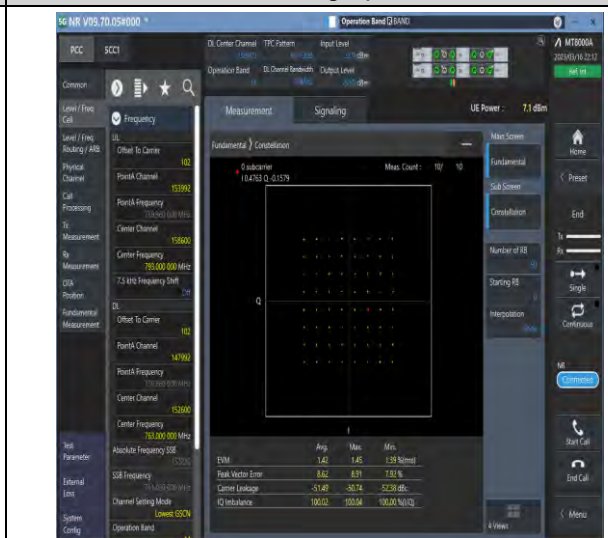
1-N14-PC3-15-10-M-1-DFT-PI2BPSK-Outer\_Full-50  
@0-Ant1-see graph-PASS



1-N14-PC3-15-10-M-2-DFT-QPSK-Outer\_Full-50@  
0-Ant1-see graph-PASS



1-N14-PC3-15-10-M-3-DFT-16QAM-Outer\_Full-50@  
0-Ant1-see graph-PASS



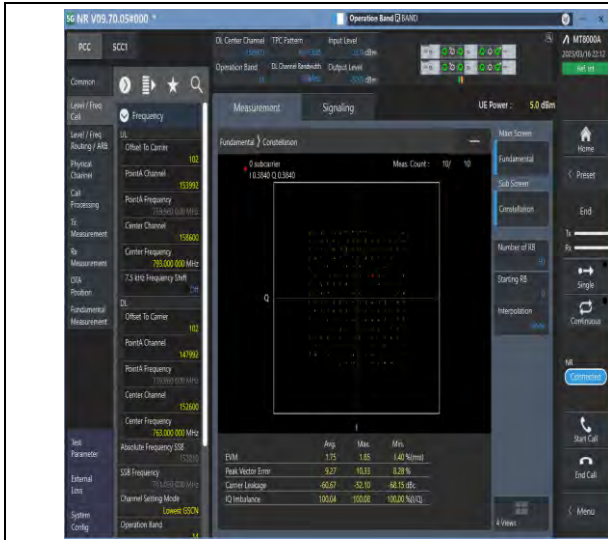
1-N14-PC3-15-10-M-4-DFT-64QAM-Outer\_Full-50  
@0-Ant1-see graph-PASS



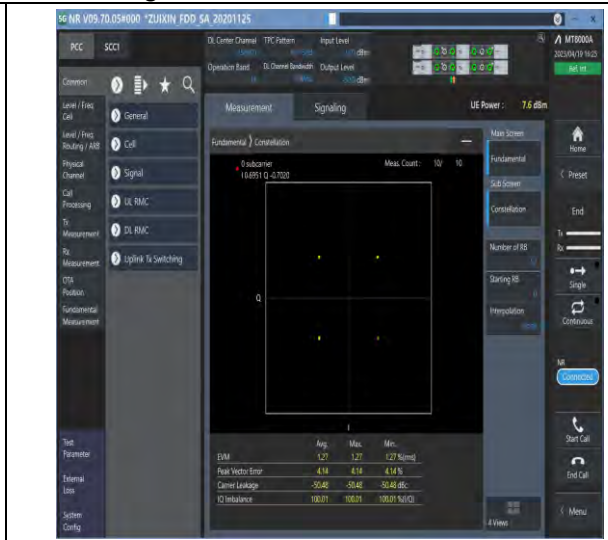
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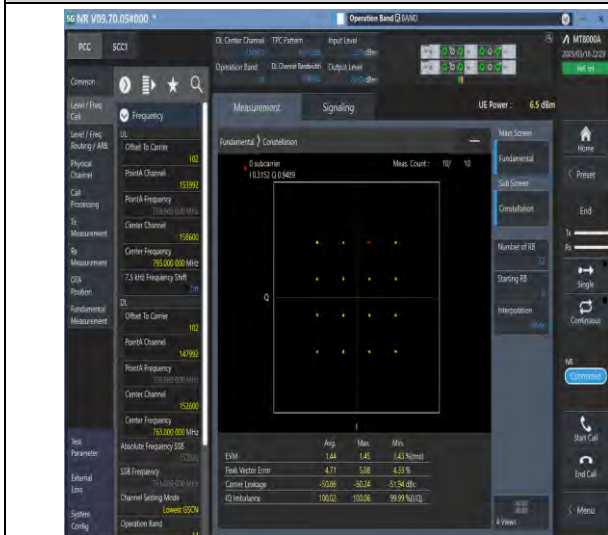




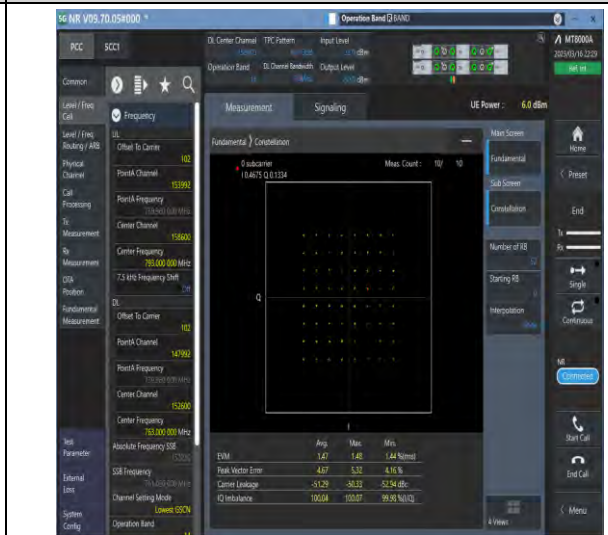
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1-N14-PC3-15-10-M-6-CP-QPSK-Outer\_Full-52@0-Ant1-see graph-PASS



1-N14-PC3-15-10-M-7-CP-16QAM-Outer\_Full-52@0-Ant1-see graph-PASS



1-N14-PC3-15-10-M-8-CP-64QAM-Outer\_Full-52@0-Ant1-see graph-PASS



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<p>1-N14-PC3-15-10-M-9-CP-256QAM-Outer_Full-52@ 0-Ant1-see graph-PASS</p>	



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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
N14	15	5	DFT-QPSK	L	Outer_Full	4.472	4.820	PASS
N14	15	5	DFT-PI2BPSK	L	Outer_Full	4.483	4.790	PASS
N14	15	5	DFT-16QAM	L	Outer_Full	4.483	4.800	PASS
N14	15	5	DFT-64QAM	L	Outer_Full	4.459	4.810	PASS
N14	15	5	DFT-256QAM	L	Outer_Full	4.465	4.800	PASS
N14	15	5	CP-QPSK	L	Outer_Full	4.468	4.820	PASS
N14	15	5	CP-16QAM	L	Outer_Full	4.472	4.830	PASS
N14	15	5	CP-64QAM	L	Outer_Full	4.463	4.820	PASS
N14	15	5	CP-256QAM	L	Outer_Full	4.475	4.850	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	4.471	4.800	PASS
N14	15	5	DFT-PI2BPSK	M	Outer_Full	4.479	4.800	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	4.464	4.790	PASS
N14	15	5	DFT-64QAM	M	Outer_Full	4.462	4.810	PASS
N14	15	5	DFT-256QAM	M	Outer_Full	4.469	4.760	PASS
N14	15	5	CP-QPSK	M	Outer_Full	4.466	4.810	PASS
N14	15	5	CP-16QAM	M	Outer_Full	4.472	4.850	PASS
N14	15	5	CP-64QAM	M	Outer_Full	4.469	4.800	PASS
N14	15	5	CP-256QAM	M	Outer_Full	4.476	4.820	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	4.466	4.780	PASS
N14	15	5	DFT-PI2BPSK	H	Outer_Full	4.481	4.800	PASS
N14	15	5	DFT-16QAM	H	Outer_Full	4.48	4.860	PASS
N14	15	5	DFT-64QAM	H	Outer_Full	4.459	4.820	PASS
N14	15	5	DFT-256QAM	H	Outer_Full	4.457	4.780	PASS
N14	15	5	CP-QPSK	H	Outer_Full	4.462	4.810	PASS
N14	15	5	CP-16QAM	H	Outer_Full	4.479	4.860	PASS
N14	15	5	CP-64QAM	H	Outer_Full	4.47	4.790	PASS
N14	15	5	CP-256QAM	H	Outer_Full	4.48	4.790	PASS
N14	15	10	DFT-QPSK	L	Outer_Full	8.914	9.400	PASS
N14	15	10	DFT-PI2BPSK	L	Outer_Full	8.907	9.420	PASS
N14	15	10	DFT-16QAM	L	Outer_Full	8.907	9.380	PASS
N14	15	10	DFT-64QAM	L	Outer_Full	8.913	9.400	PASS
N14	15	10	DFT-256QAM	L	Outer_Full	8.908	9.320	PASS



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Report No.: SEWA2303000029RG02

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N14	15	10	CP-QPSK	L	Outer_Full	9.284	9.680	PASS
N14	15	10	CP-16QAM	L	Outer_Full	9.252	9.740	PASS
N14	15	10	CP-64QAM	L	Outer_Full	9.292	9.760	PASS
N14	15	10	CP-256QAM	L	Outer_Full	9.238	9.760	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	8.911	9.420	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	8.936	9.440	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	8.909	9.400	PASS
N14	15	10	DFT-64QAM	M	Outer_Full	8.906	9.400	PASS
N14	15	10	DFT-256QAM	M	Outer_Full	8.921	9.380	PASS
N14	15	10	CP-QPSK	M	Outer_Full	9.253	9.700	PASS
N14	15	10	CP-16QAM	M	Outer_Full	9.257	9.760	PASS
N14	15	10	CP-64QAM	M	Outer_Full	9.28	9.800	PASS
N14	15	10	CP-256QAM	M	Outer_Full	9.272	9.760	PASS
N14	15	10	DFT-QPSK	H	Outer_Full	8.901	9.380	PASS
N14	15	10	DFT-PI2BPSK	H	Outer_Full	8.951	9.400	PASS
N14	15	10	DFT-16QAM	H	Outer_Full	8.917	9.400	PASS
N14	15	10	DFT-64QAM	H	Outer_Full	8.91	9.360	PASS
N14	15	10	DFT-256QAM	H	Outer_Full	8.895	9.380	PASS
N14	15	10	CP-QPSK	H	Outer_Full	9.275	9.780	PASS
N14	15	10	CP-16QAM	H	Outer_Full	9.263	9.780	PASS
N14	15	10	CP-64QAM	H	Outer_Full	9.279	9.780	PASS
N14	15	10	CP-256QAM	H	Outer_Full	9.275	9.740	PASS



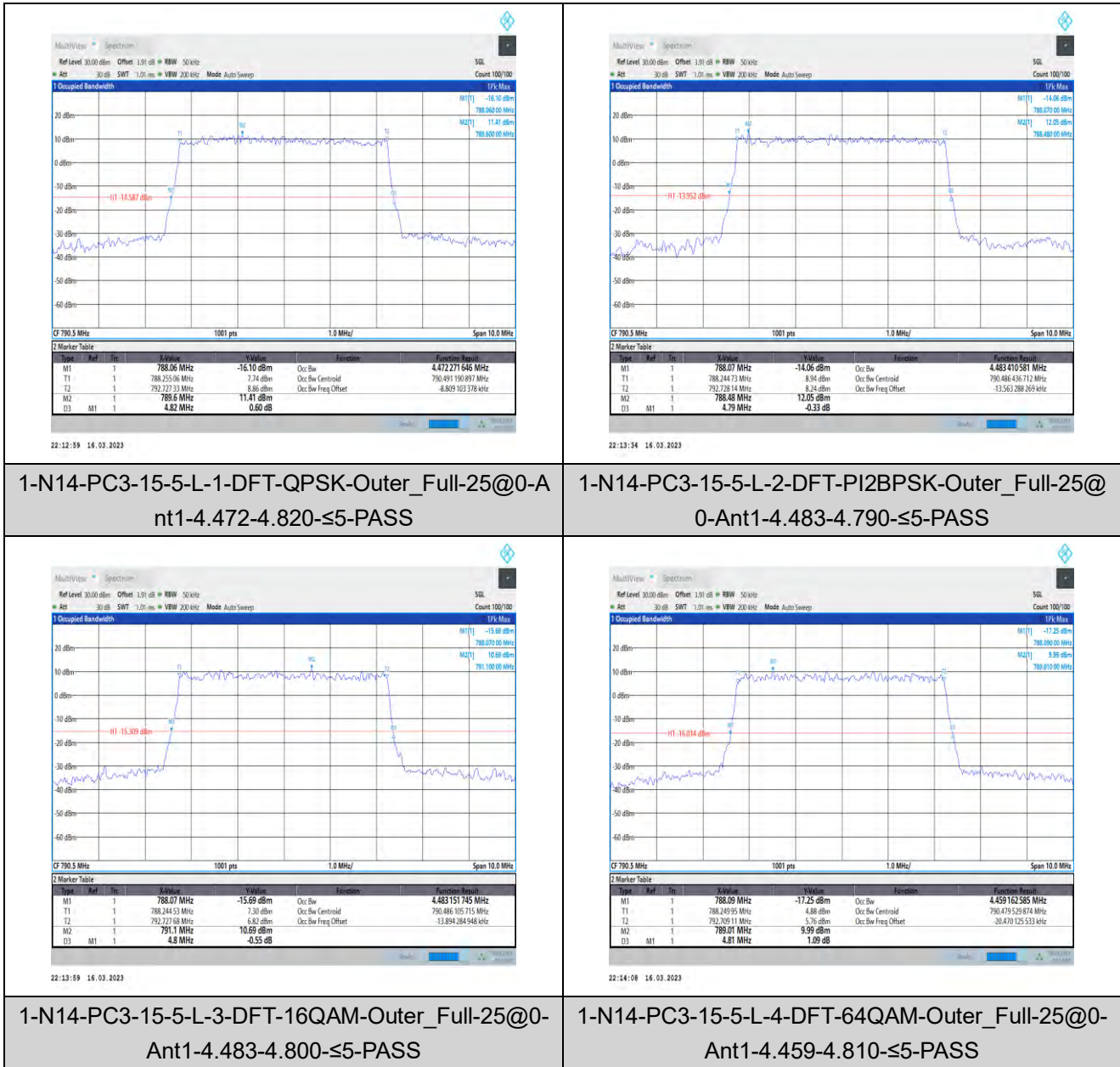
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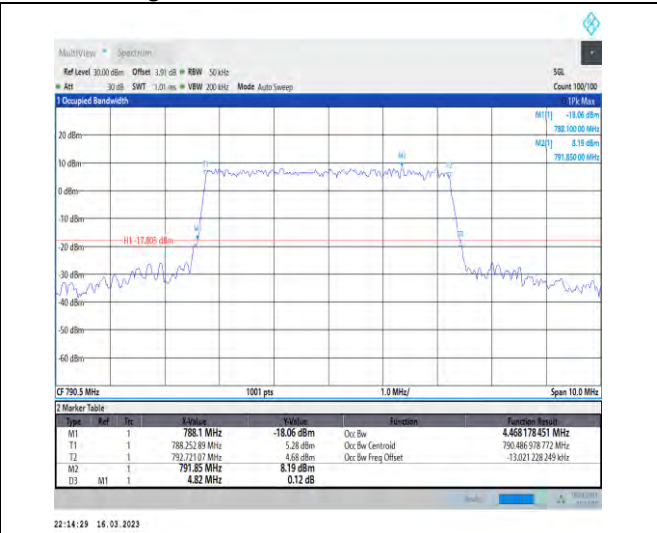
Test Graphs



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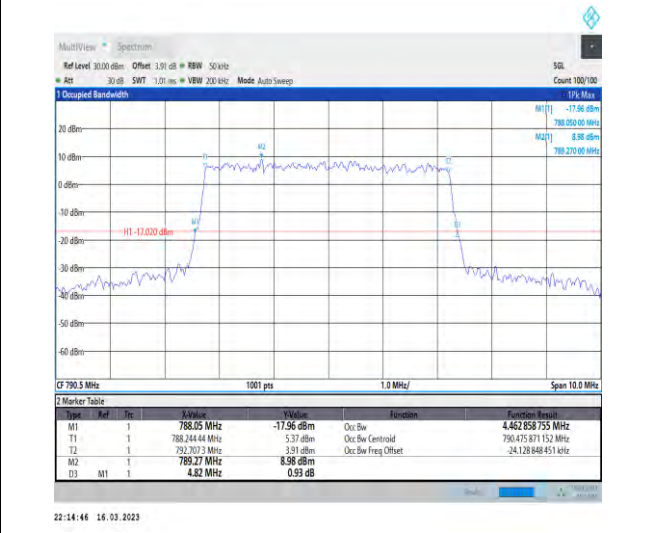
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1-N14-PC3-15-5-L-5-DFT-256QAM-Outer\_Full-25@0-Ant1-4.465-4.800-≤5-PASS

1-N14-PC3-15-5-L-6-CP-QPSK-Outer\_Full-25@0-An t1-4.468-4.820-≤5-PASS



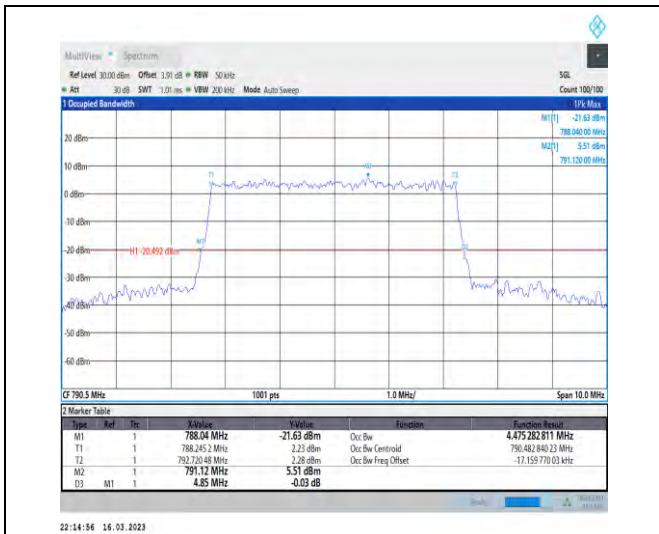
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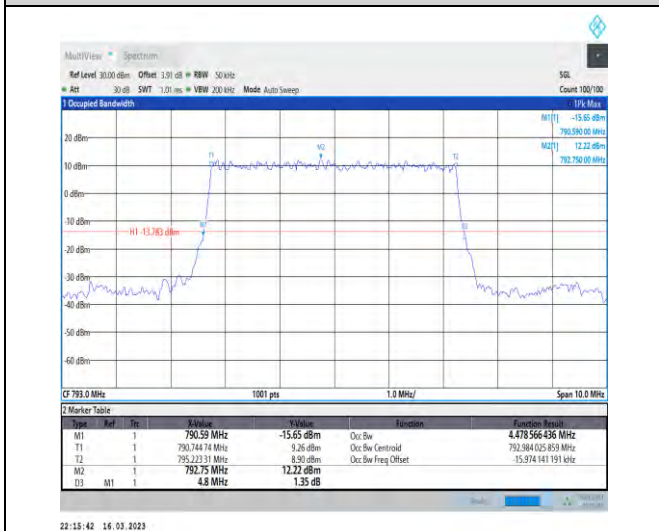
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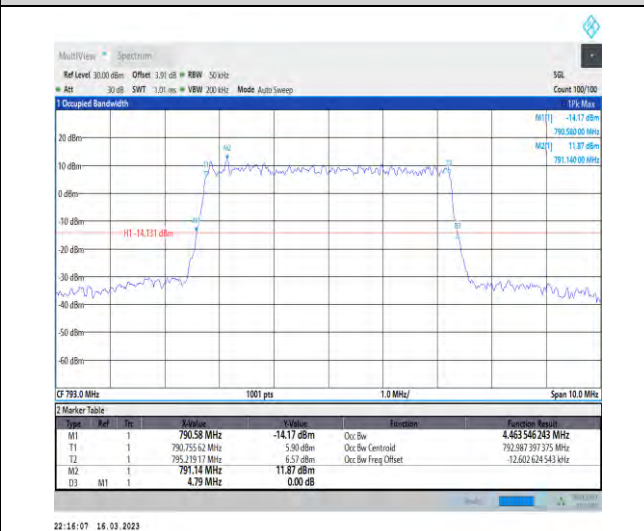
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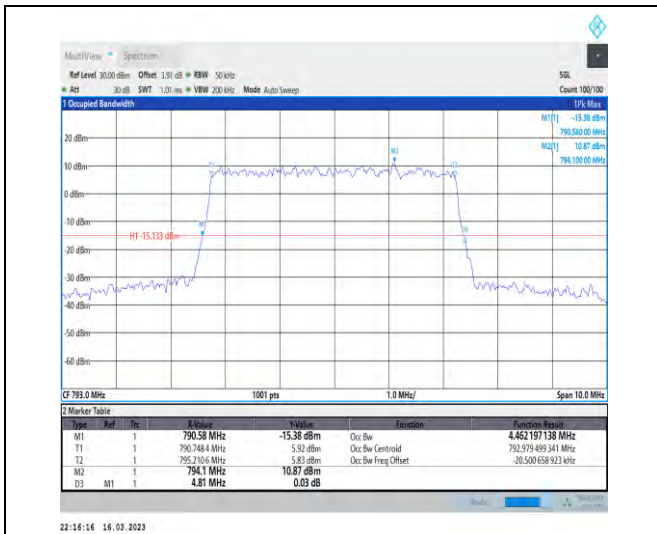


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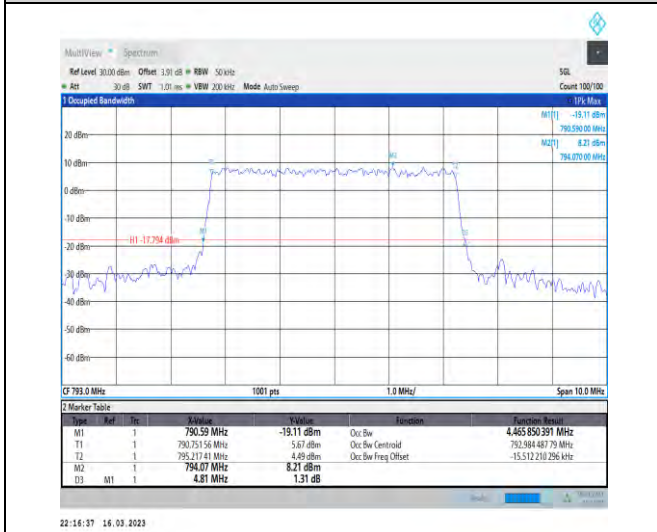
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1-N14-PC3-15-5-M-4-DFT-64QAM-Outer\_Full-25@0  
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1-N14-PC3-15-5-M-5-DFT-256QAM-Outer\_Full-25@0  
 -Ant1-4.469-4.760-≤5-PASS



1-N14-PC3-15-5-M-6-CP-QPSK-Outer\_Full-25@0-A  
 nt1-4.466-4.810-≤5-PASS



1-N14-PC3-15-5-M-7-CP-16QAM-Outer\_Full-25@0-  
 Ant1-4.472-4.850-≤5-PASS



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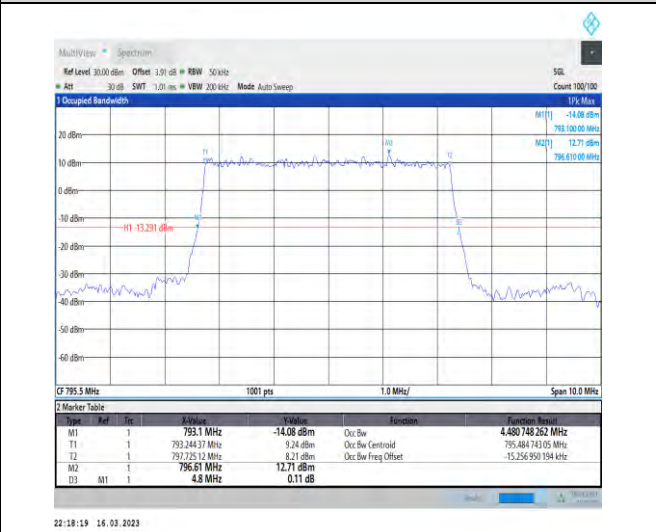
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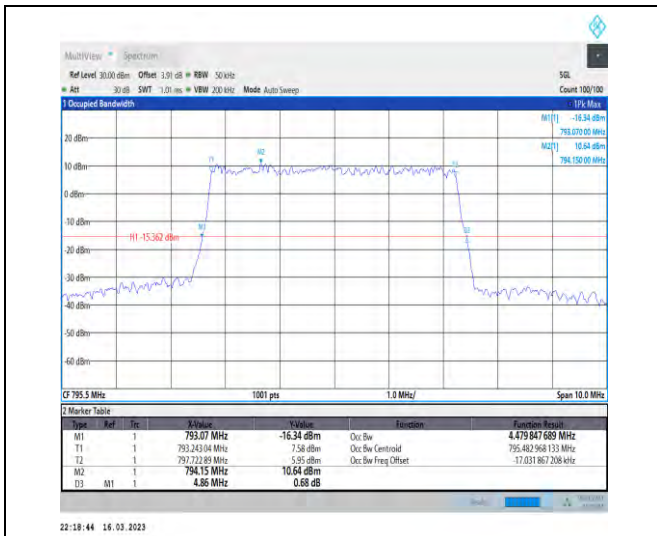
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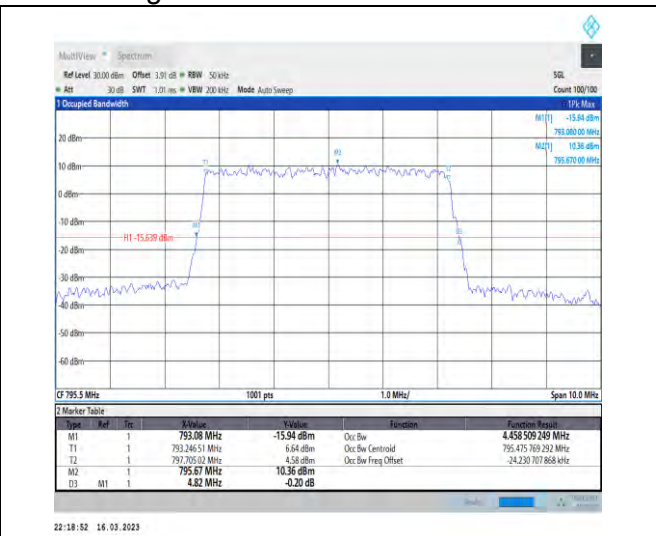


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1-N14-PC3-15-5-H-3-DFT-16QAM-Outer\_Full-25@0  
 -Ant1-4.48-4.860-≤5-PASS



1-N14-PC3-15-5-H-4-DFT-64QAM-Outer\_Full-25@0-  
 Ant1-4.459-4.820-≤5-PASS



1-N14-PC3-15-5-H-5-DFT-256QAM-Outer\_Full-25@  
 0-Ant1-4.457-4.780-≤5-PASS



1-N14-PC3-15-5-H-6-CP-QPSK-Outer\_Full-25@0-A  
 nt1-4.462-4.810-≤5-PASS



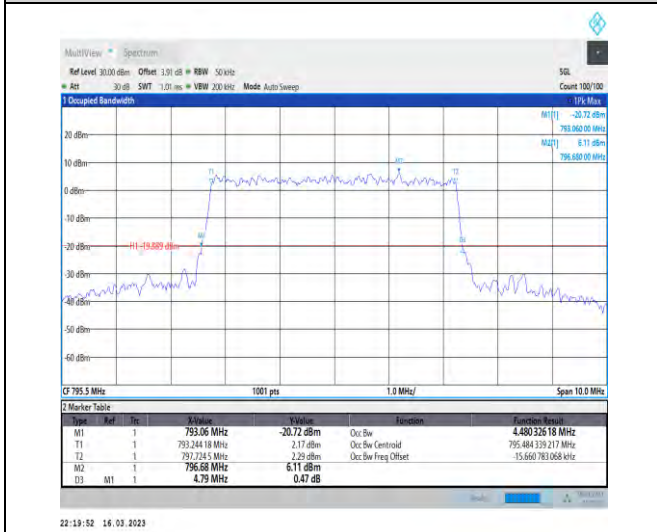
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1-N14-PC3-15-5-H-7-CP-16QAM-Outer\_Full-25@0-Ant1-4.479-4.860-≤5-PASS

1-N14-PC3-15-5-H-8-CP-64QAM-Outer\_Full-25@0-Ant1-4.47-4.790-≤5-PASS



1-N14-PC3-15-5-H-9-CP-256QAM-Outer\_Full-25@0-Ant1-4.48-4.790-≤5-PASS

1-N14-PC3-15-10-L-1-DFT-QPSK-Outer\_Full-50@0-Ant1-8.914-9.400-≤10-PASS



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1-N14-PC3-15-10-L-2-DFT-PI2BPSK-Outer\_Full-50 @0-Ant1-8.907-9.420-≤10-PASS

1-N14-PC3-15-10-L-3-DFT-16QAM-Outer\_Full-50 @0-Ant1-8.907-9.380-≤10-PASS



1-N14-PC3-15-10-L-4-DFT-64QAM-Outer\_Full-50 @0-Ant1-8.913-9.400-≤10-PASS

1-N14-PC3-15-10-L-5-DFT-256QAM-Outer\_Full-50 @0-Ant1-8.908-9.320-≤10-PASS



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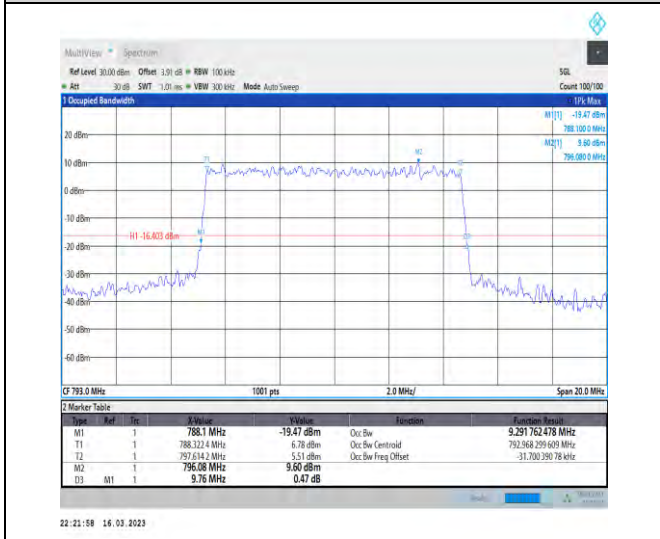
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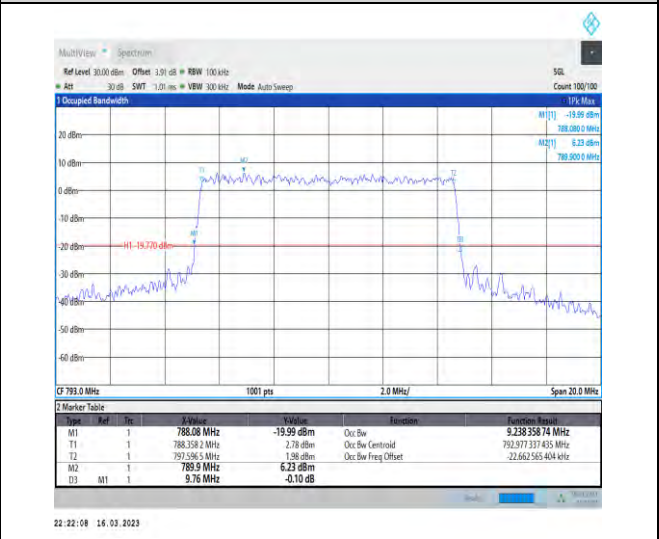
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1-N14-PC3-15-10-L-7-CP-16QAM-Outer\_Full-52@0-Ant1-9.252-9.740-≤10-PASS



1-N14-PC3-15-10-L-8-CP-64QAM-Outer\_Full-52@0-Ant1-9.292-9.760-≤10-PASS



1-N14-PC3-15-10-L-9-CP-256QAM-Outer\_Full-52@0-Ant1-9.238-9.760-≤10-PASS



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1-N14-PC3-15-10-M-1-DFT-QPSK-Outer\_Full-50@0-Ant1-8.911-9.420-≤10-PASS



1-N14-PC3-15-10-M-2-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-8.936-9.440-≤10-PASS



1-N14-PC3-15-10-M-3-DFT-16QAM-Outer\_Full-50@0-Ant1-8.909-9.400-≤10-PASS



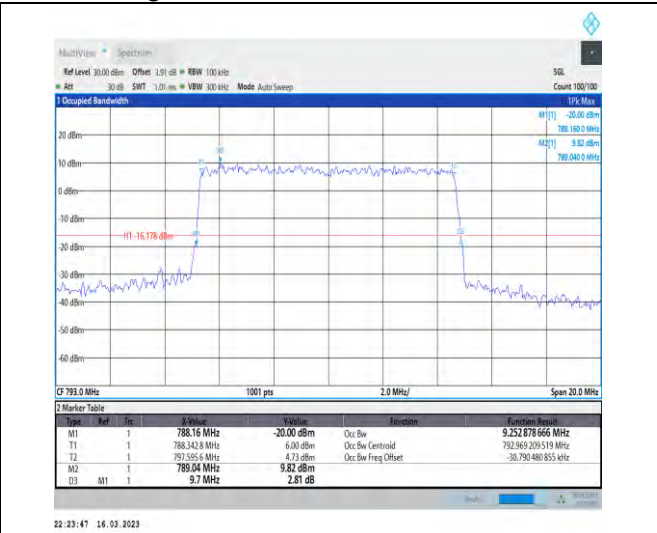
1-N14-PC3-15-10-M-4-DFT-64QAM-Outer\_Full-50@0-Ant1-8.906-9.400-≤10-PASS



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1-N14-PC3-15-10-M-5-DFT-256QAM-Outer\_Full-50@0-Ant1-8.921-9.380-≤10-PASS

1-N14-PC3-15-10-M-6-CP-QPSK-Outer\_Full-52@0-Ant1-9.253-9.700-≤10-PASS



1-N14-PC3-15-10-M-7-CP-16QAM-Outer\_Full-52@0-Ant1-9.257-9.760-≤10-PASS

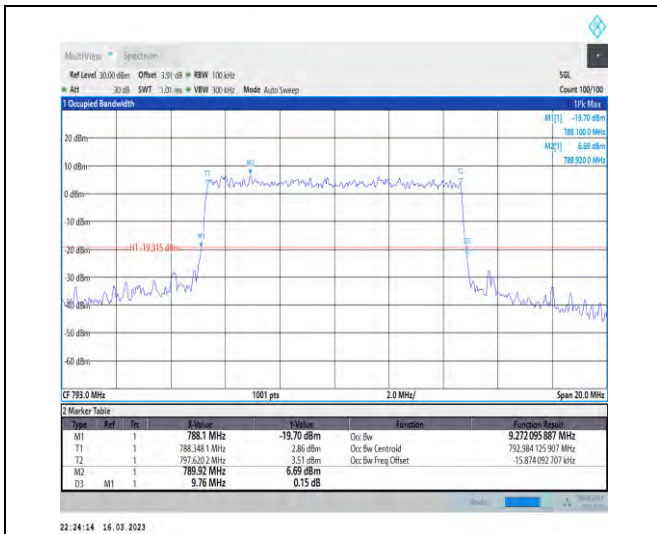
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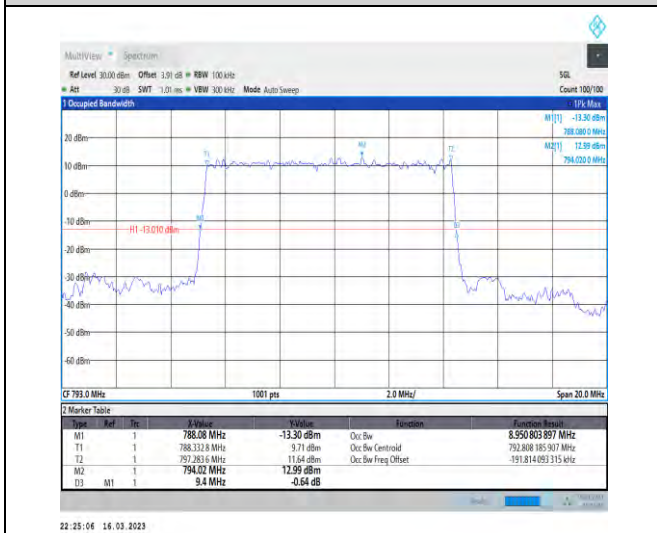
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1-N14-PC3-15-10-M-9-CP-256QAM-Outer\_Full-52@  
 0-Ant1-9.272-9.760-≤10-PASS



1-N14-PC3-15-10-H-1-DFT-QPSK-Outer\_Full-50@0-  
 Ant1-8.901-9.380-≤10-PASS



1-N14-PC3-15-10-H-2-DFT-PI2BPSK-Outer\_Full-50  
 @0-Ant1-8.951-9.400-≤10-PASS



1-N14-PC3-15-10-H-3-DFT-16QAM-Outer\_Full-50@  
 0-Ant1-8.917-9.400-≤10-PASS



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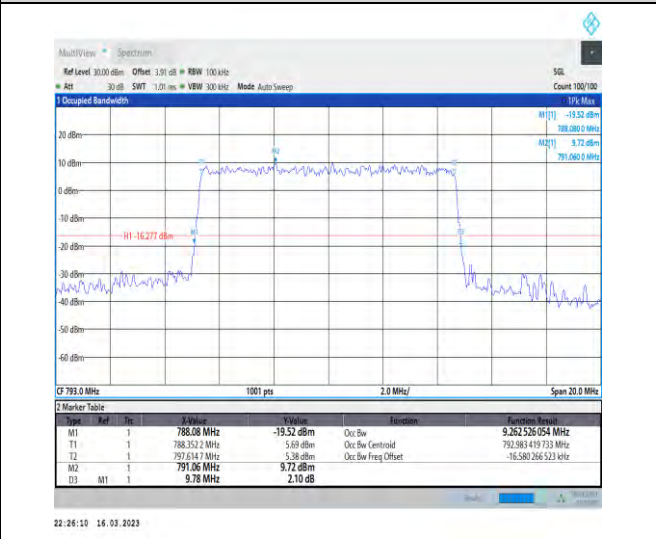
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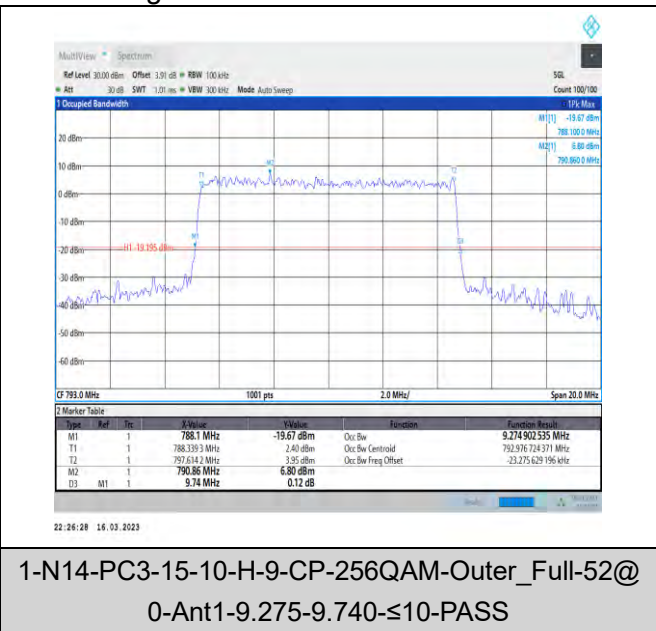
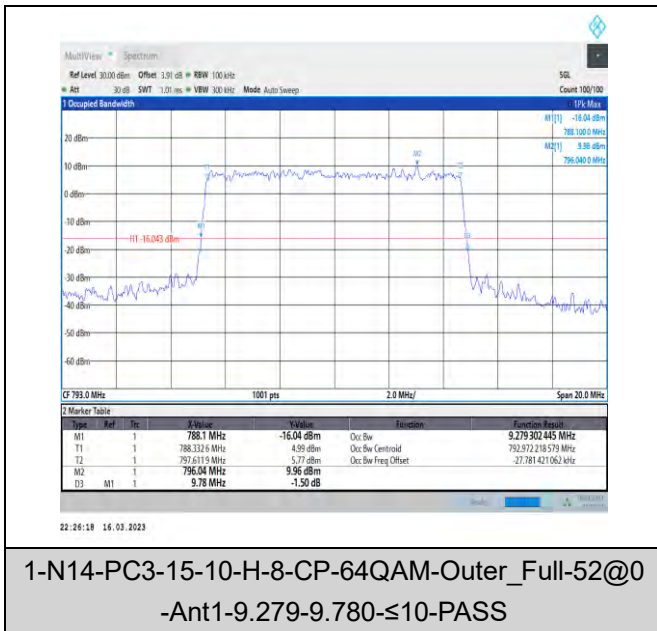


1-N14-PC3-15-10-H-7-CP-16QAM-Outer\_Full-52@0  
 -Ant1-9.263-9.780-≤10-PASS



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1-N14-PC3-15-10-H-9-CP-256QAM-Outer\_Full-52@0  
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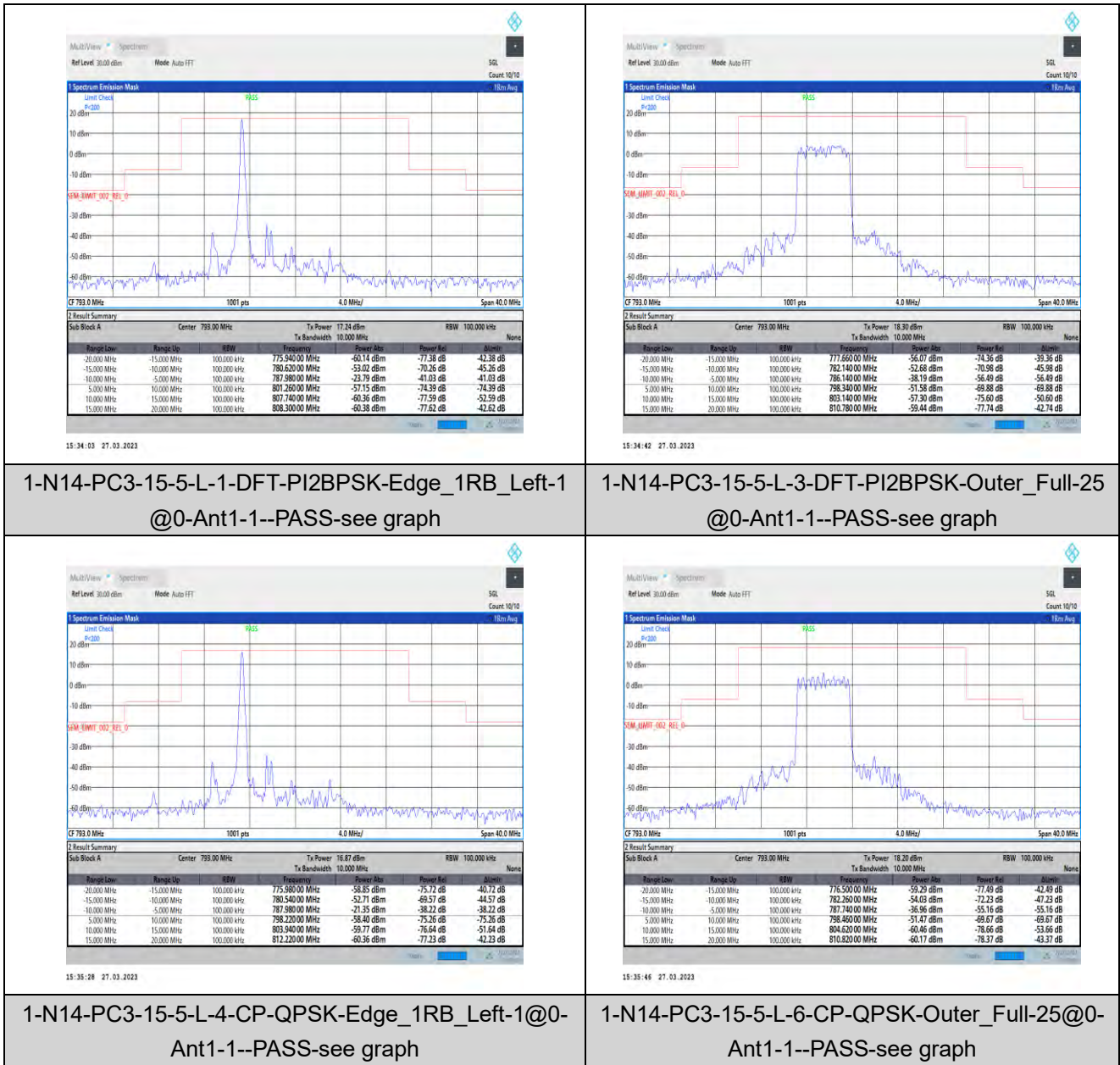


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### Emission mask for SA

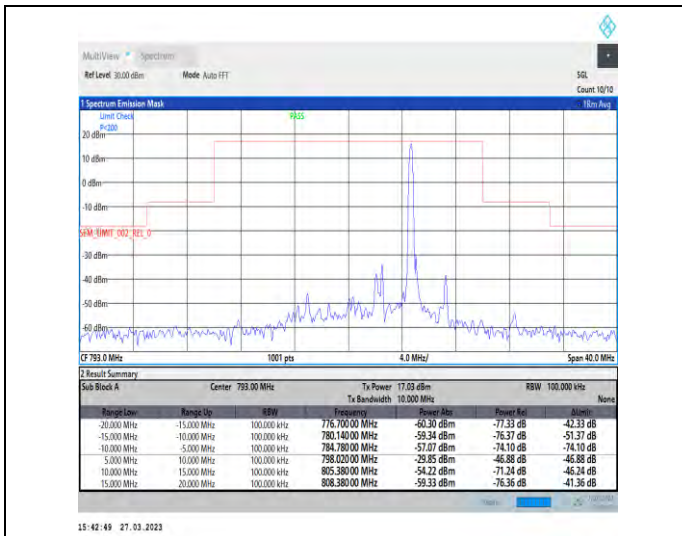
### Test Graphs



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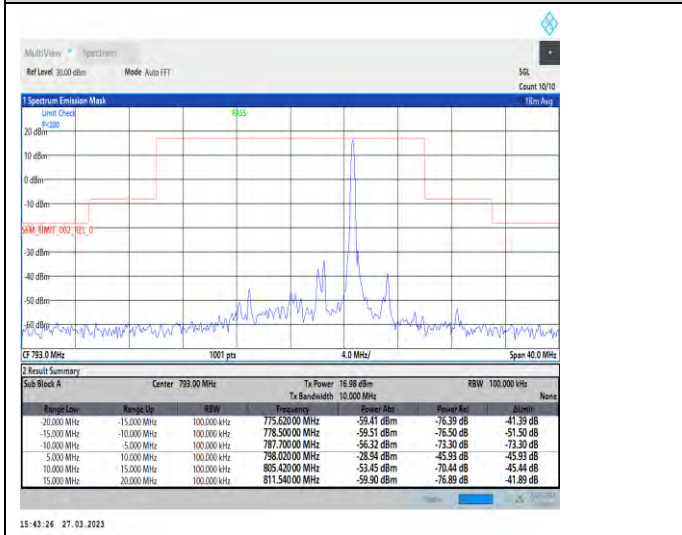
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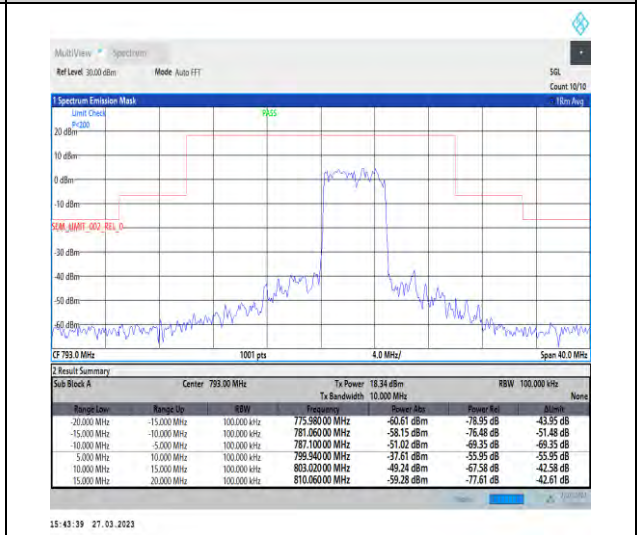
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1-N14-PC3-15-5-H-3-DFT-PI2BPSK-Outer\_Full-25@0-Ant1-1--PASS-see graph



1-N14-PC3-15-5-H-5-CP-QPSK-Edge\_1RB\_Right-1@24-Ant1-1--PASS-see graph

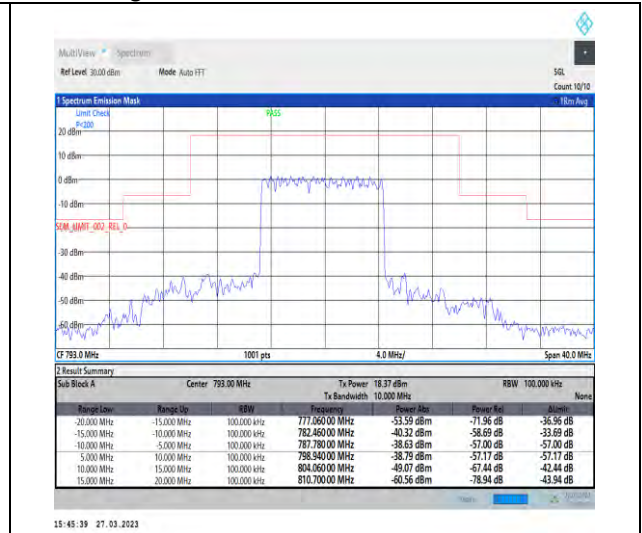
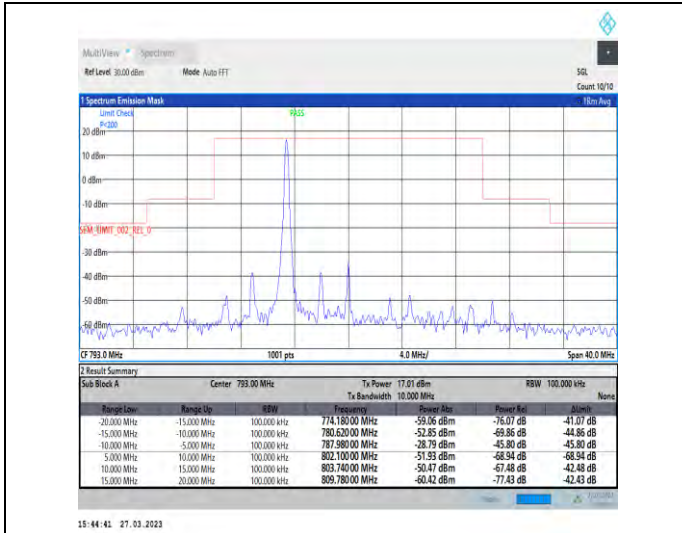


1-N14-PC3-15-5-H-6-CP-QPSK-Outer\_Full-25@0-Ant1-1--PASS-see graph



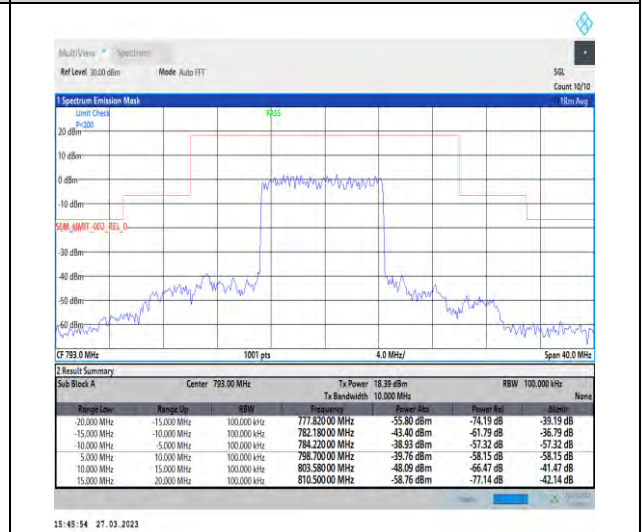
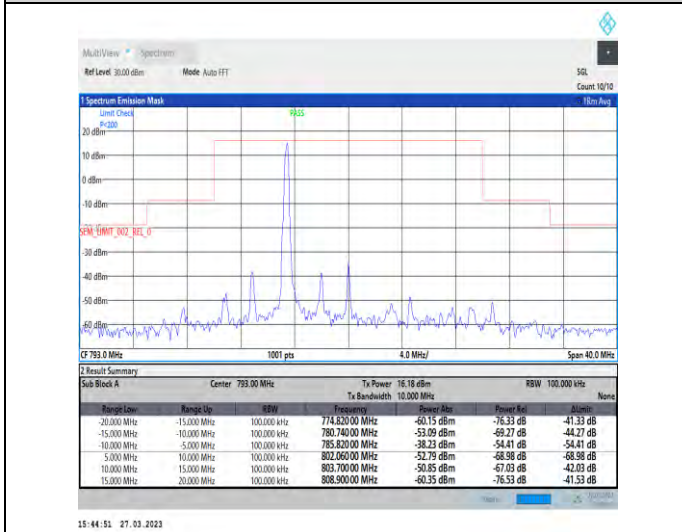
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1-N14-PC3-15-10-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph

1-N14-PC3-15-10-L-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-1--PASS-see graph



1-N14-PC3-15-10-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph

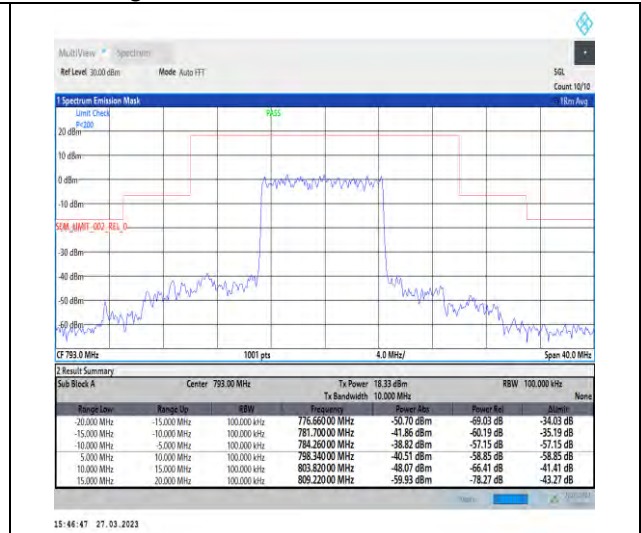
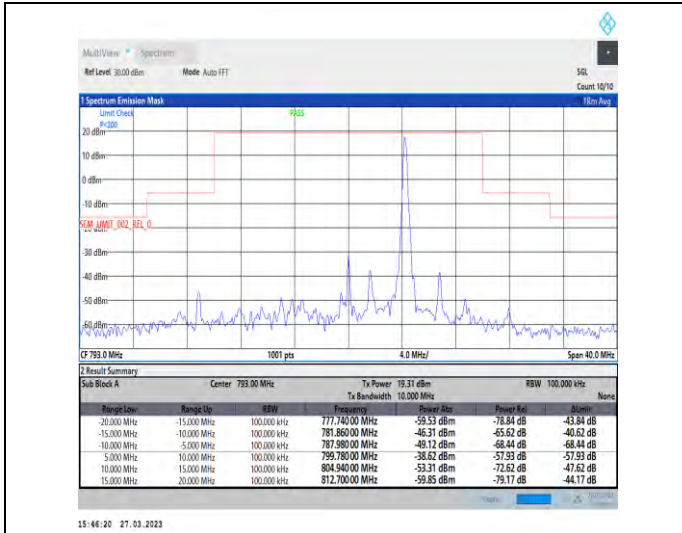
1-N14-PC3-15-10-L-6-CP-QPSK-Outer\_Full-52@0-Ant1-1--PASS-see graph



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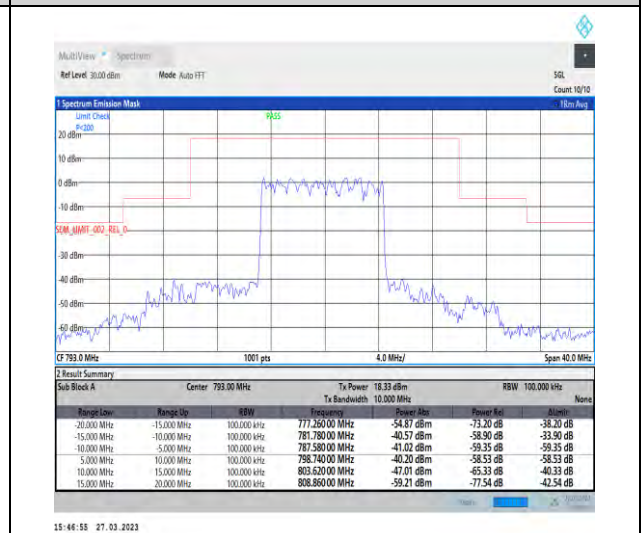
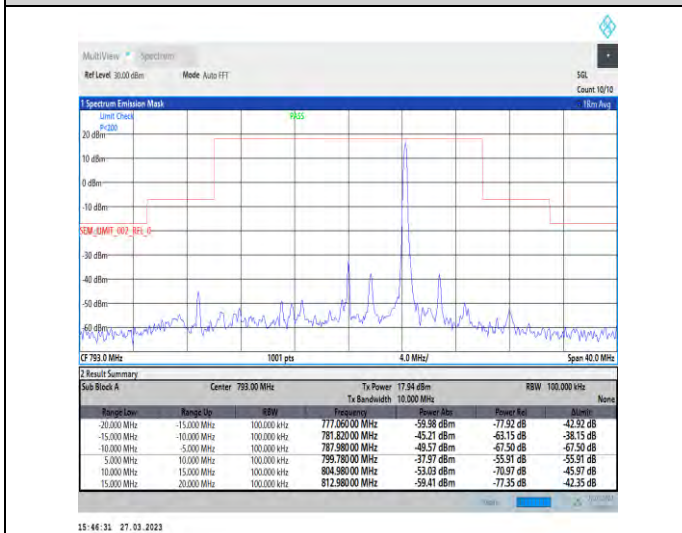
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1-N14-PC3-15-10-H-2-DFT-PI2BPSK-Edge\_1RB\_Righ t-1@51-Ant1-1--PASS-see graph

1-N14-PC3-15-10-H-3-DFT-PI2BPSK-Outer\_Full-5 0@0-Ant1-1--PASS-see graph



1-N14-PC3-15-10-H-5-CP-QPSK-Edge\_1RB\_Righ t-1@51-Ant1-1--PASS-see graph

1-N14-PC3-15-10-H-6-CP-QPSK-Outer\_Full-52@ 0-Ant1-1--PASS-see graph

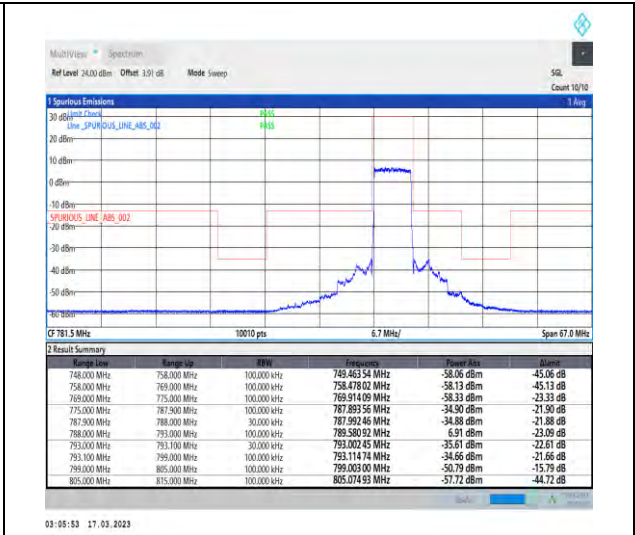
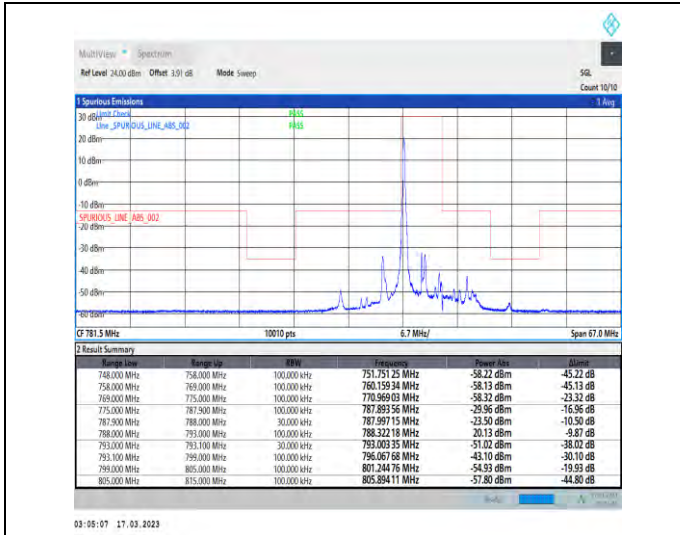


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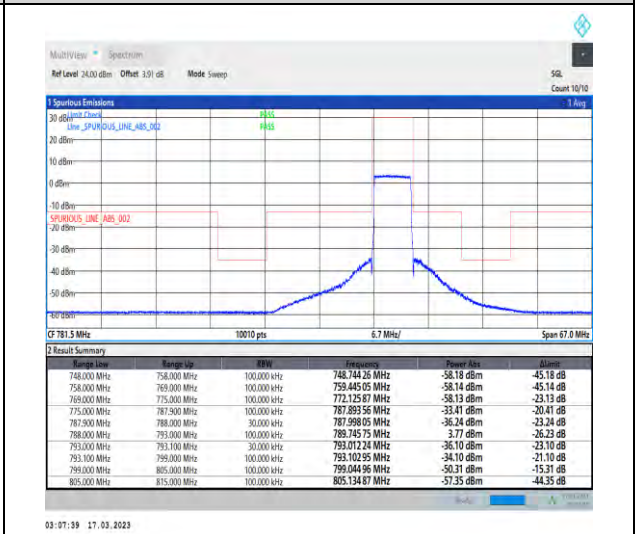
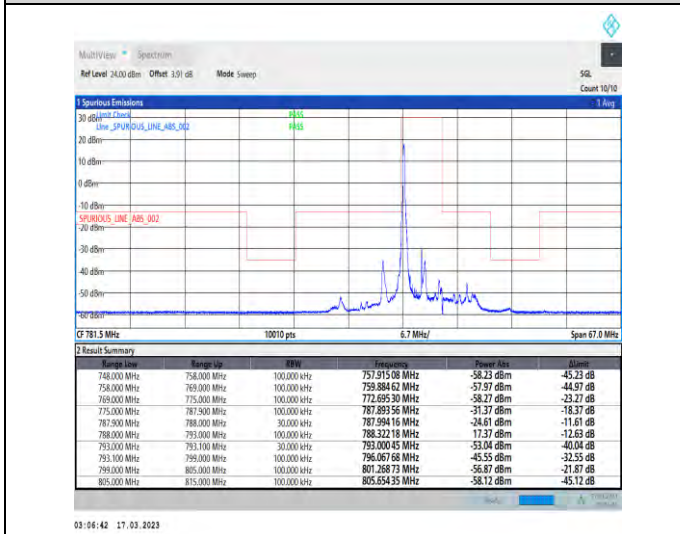
### Band Edge for SA

### Test Graphs



1-N14-PC3-15-5-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1 @0-Ant1-1--PASS-see graph

1-N14-PC3-15-5-L-3-DFT-PI2BPSK-Outer\_Full-25 @0-Ant1-1--PASS-see graph



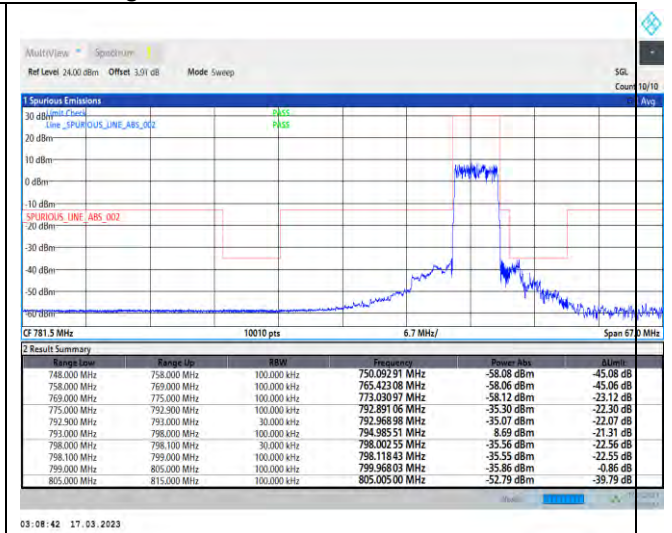
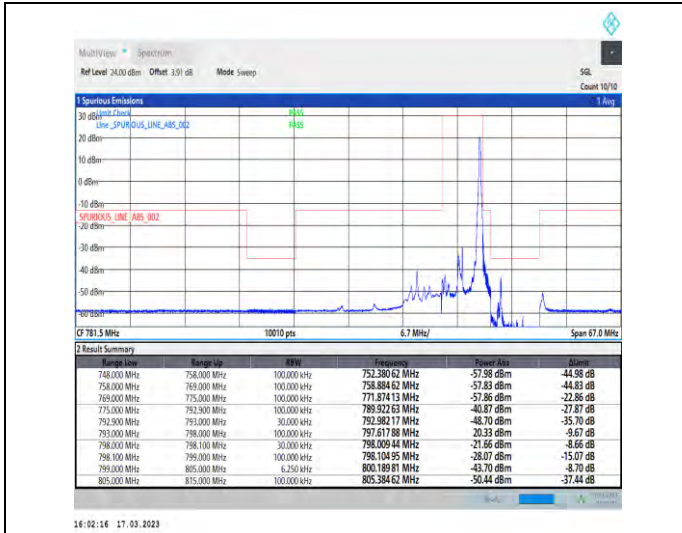
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1-N14-PC3-15-5-L-6-CP-QPSK-Outer\_Full-25@0-Ant1-1--PASS-see graph



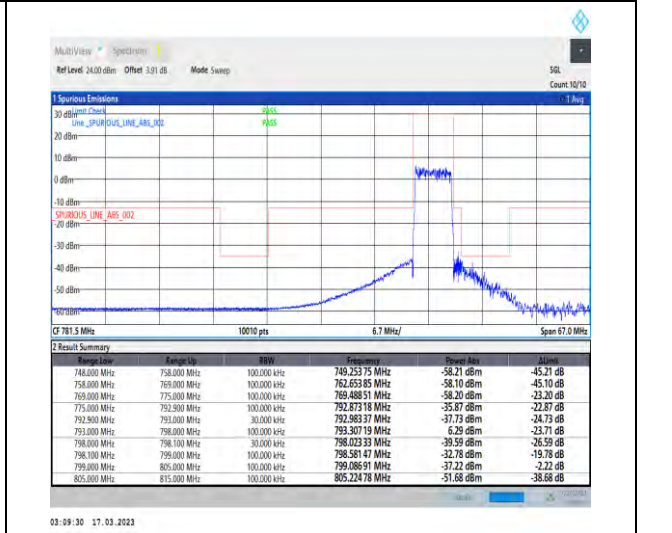
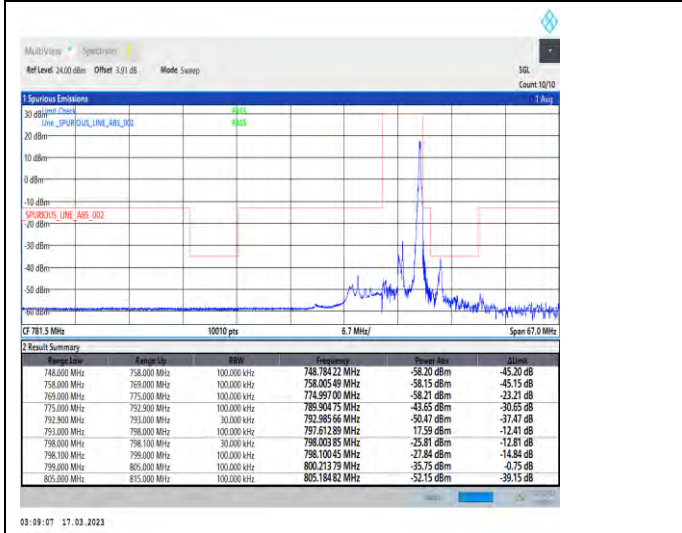
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1-N14-PC3-15-5-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@24-Ant1-1--PASS-see graph

1-N14-PC3-15-5-H-3-DFT-PI2BPSK-Outer\_Full-25@0-Ant1-1--PASS-see graph



1-N14-PC3-15-5-H-5-CP-QPSK-Edge\_1RB\_Right-1@24-Ant1-1--PASS-see graph

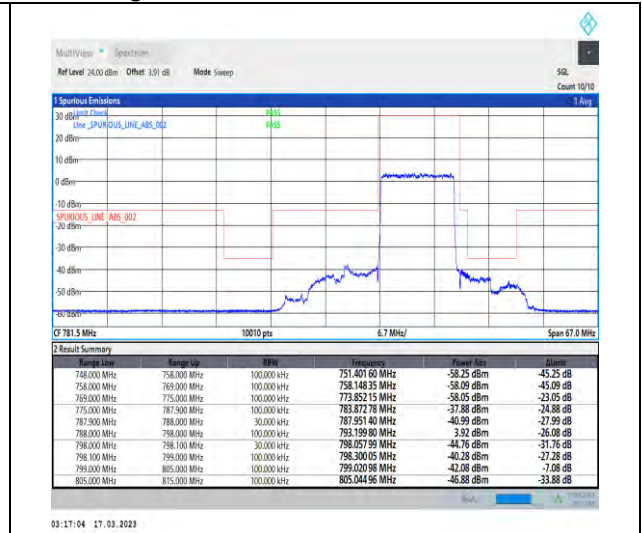
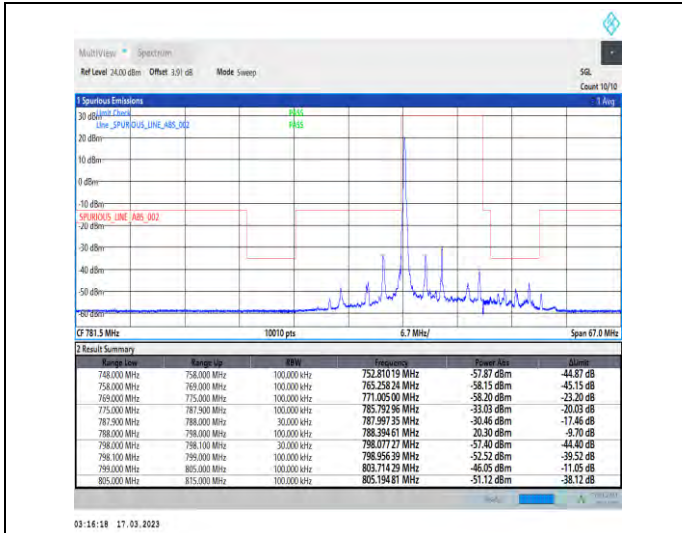
1-N14-PC3-15-5-H-6-CP-QPSK-Outer\_Full-25@0-Ant1-1--PASS-see graph



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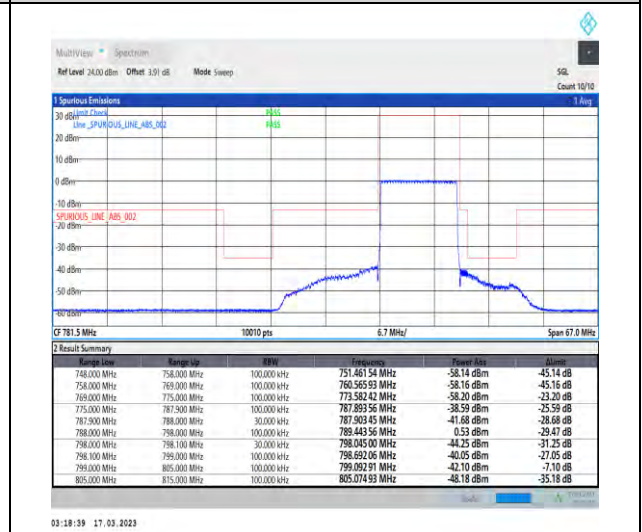
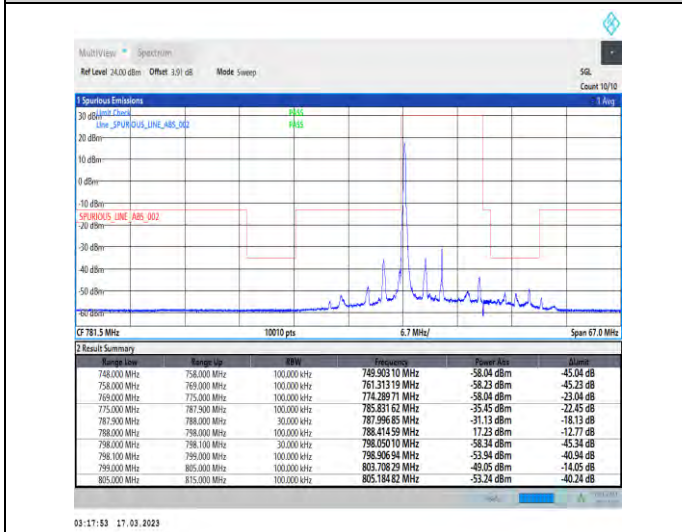
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1-N14-PC3-15-10-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph

1-N14-PC3-15-10-L-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-1--PASS-see graph



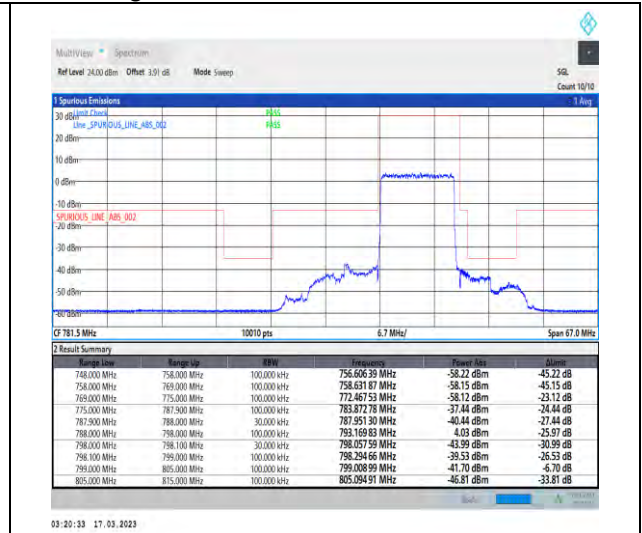
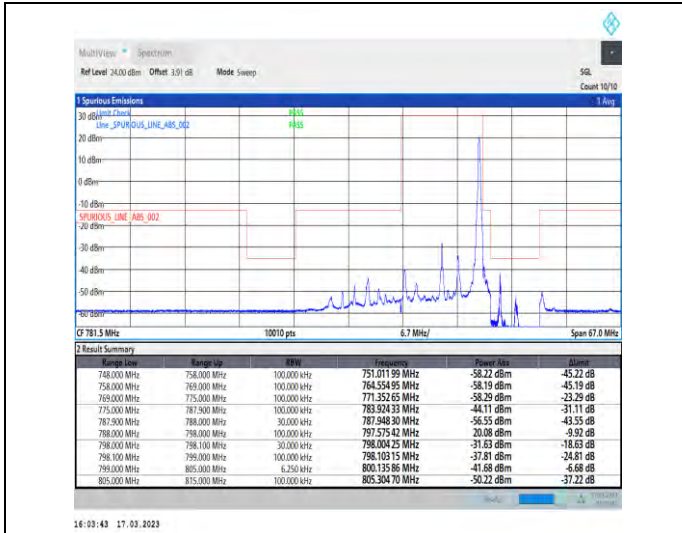
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1-N14-PC3-15-10-L-6-CP-QPSK-Outer\_Full-52@0-Ant1-1--PASS-see graph



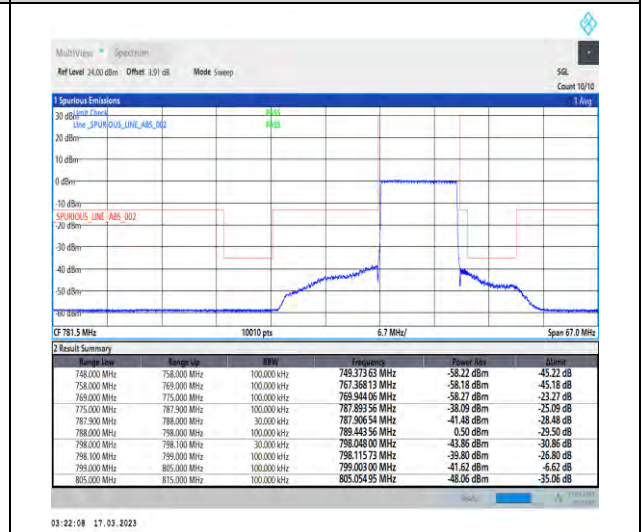
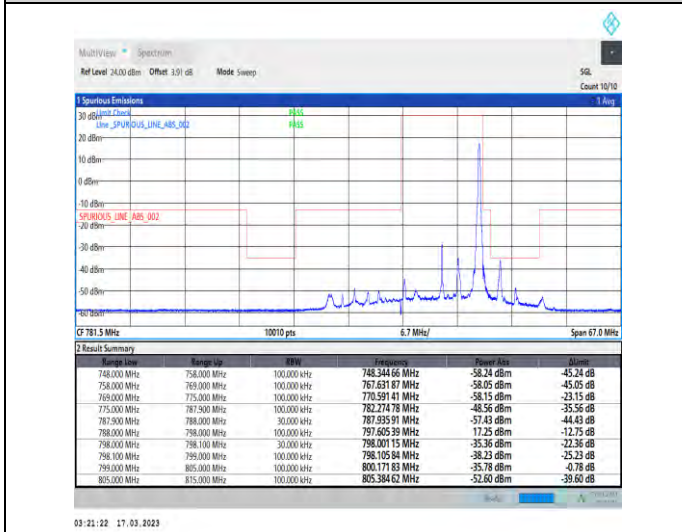
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1-N14-PC3-15-10-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-t-1@51-Ant1-1--PASS-see graph

1-N14-PC3-15-10-H-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-1--PASS-see graph



1-N14-PC3-15-10-H-5-CP-QPSK-Edge\_1RB\_Right-1@51-Ant1-1--PASS-see graph

1-N14-PC3-15-10-H-6-CP-QPSK-Outer\_Full-52@0-Ant1-1--PASS-see graph

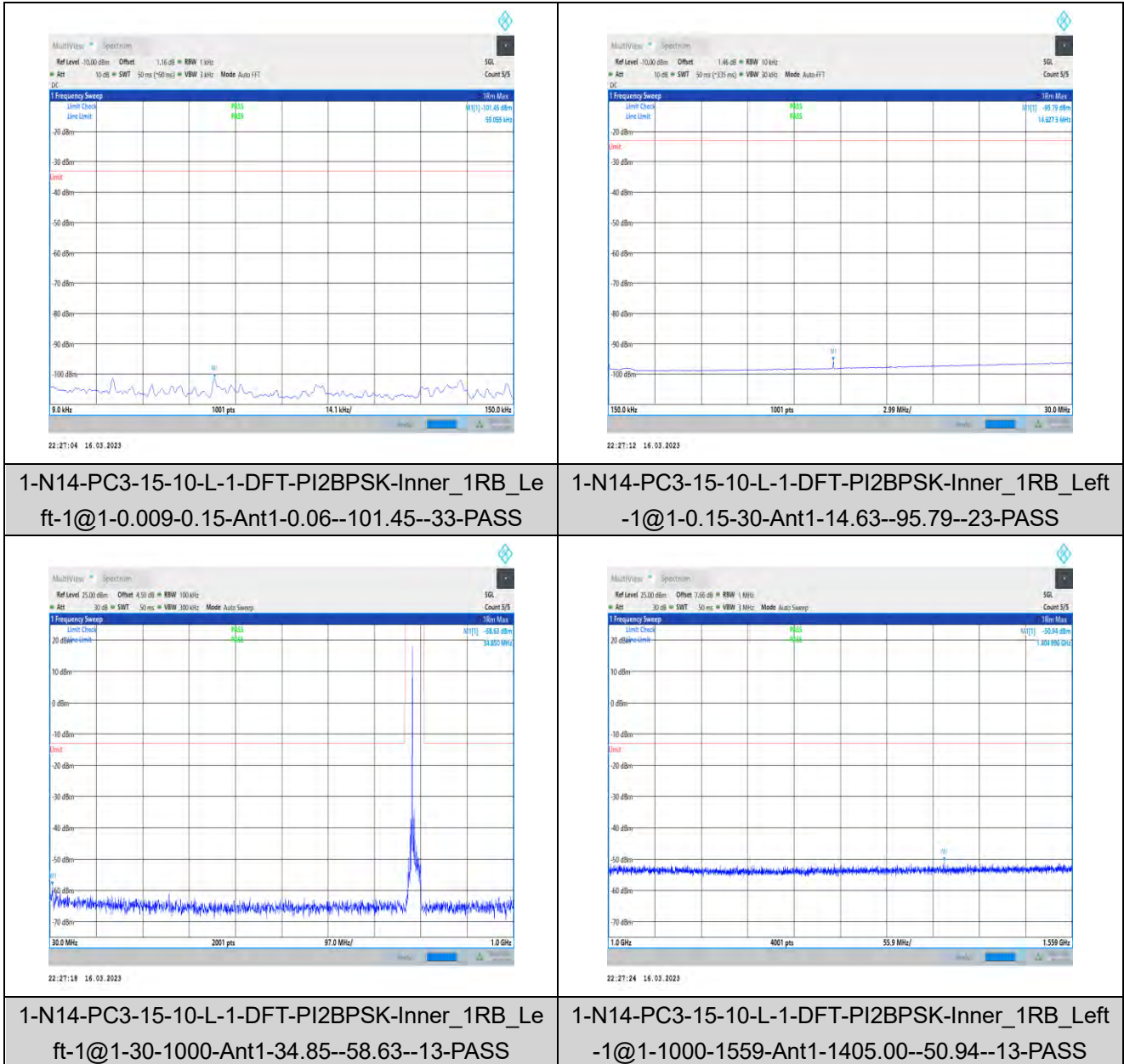


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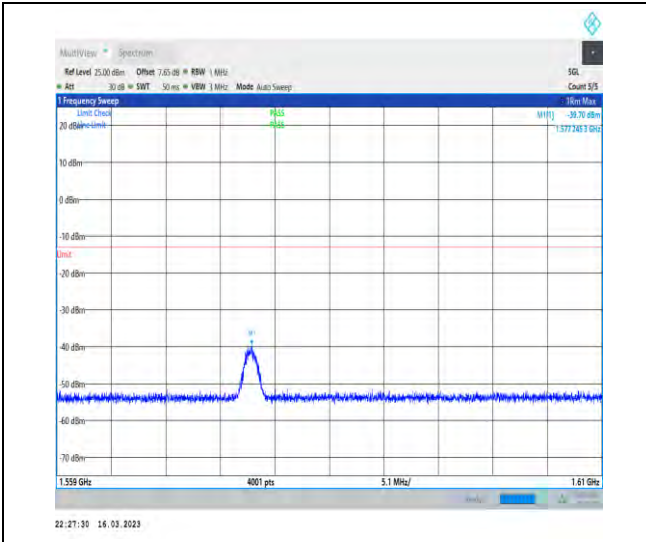
### Test Graphs



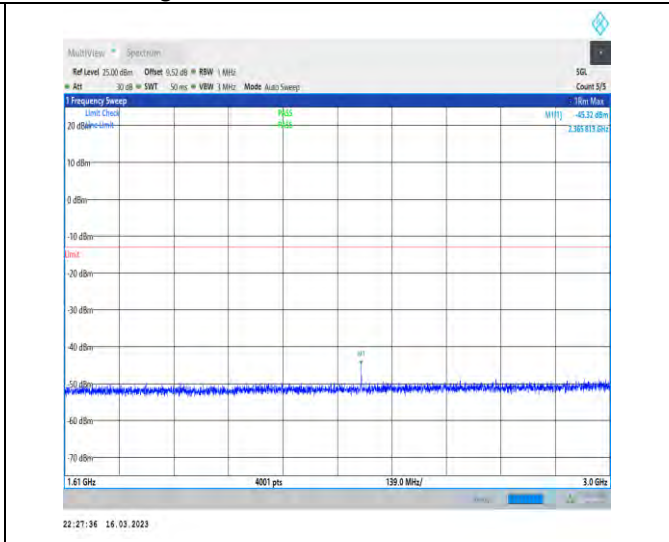
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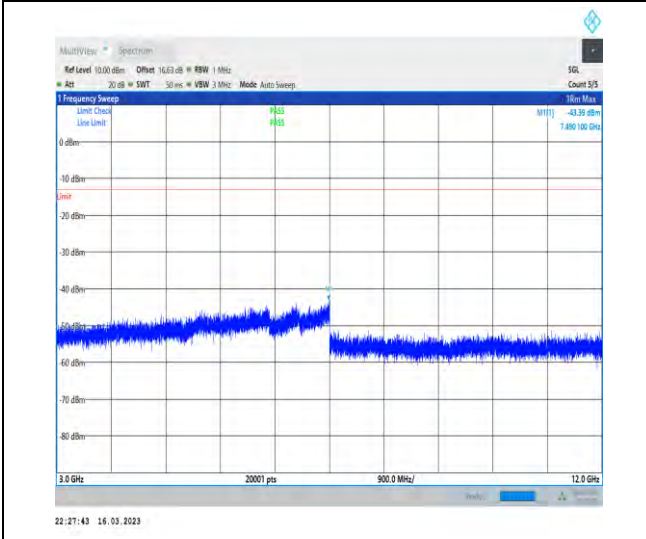
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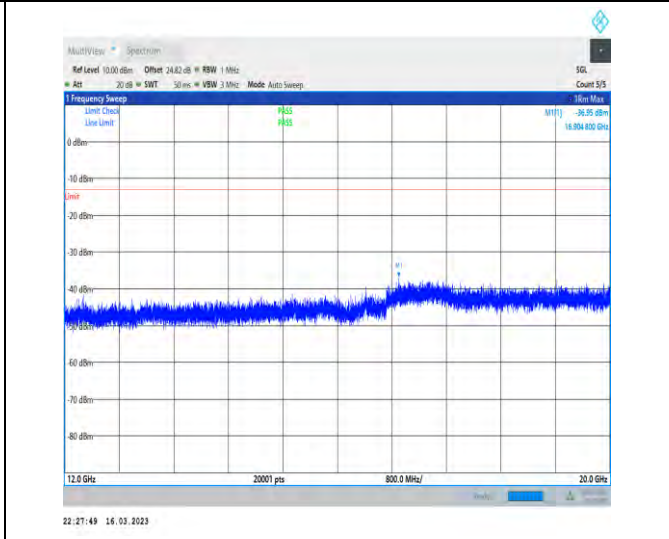
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1-N14-PC3-15-10-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-1610-3000-Ant1-2365.81--45.32--13-PASS



1-N14-PC3-15-10-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-ft-1@1-3000-12000-Ant1-7490.10--43.39--13-PASS

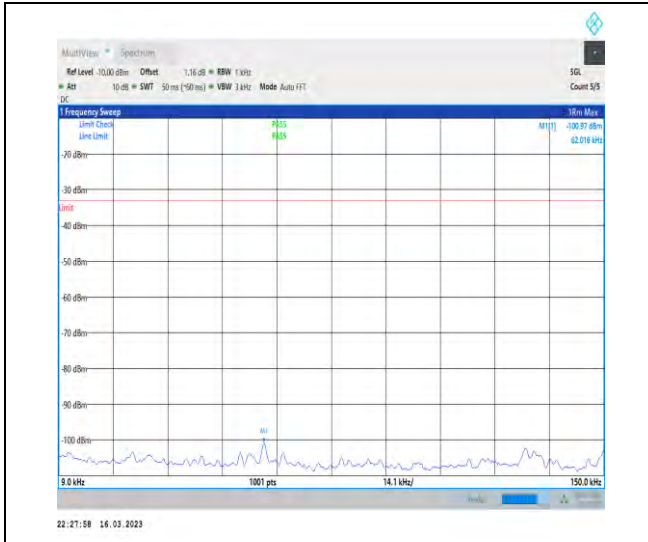


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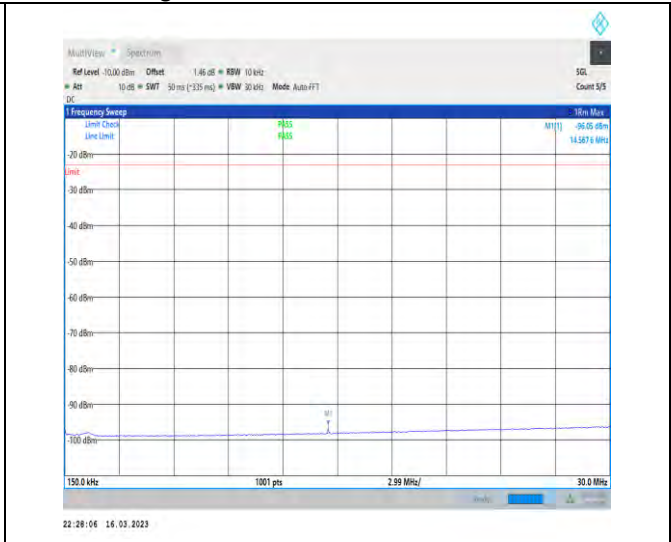


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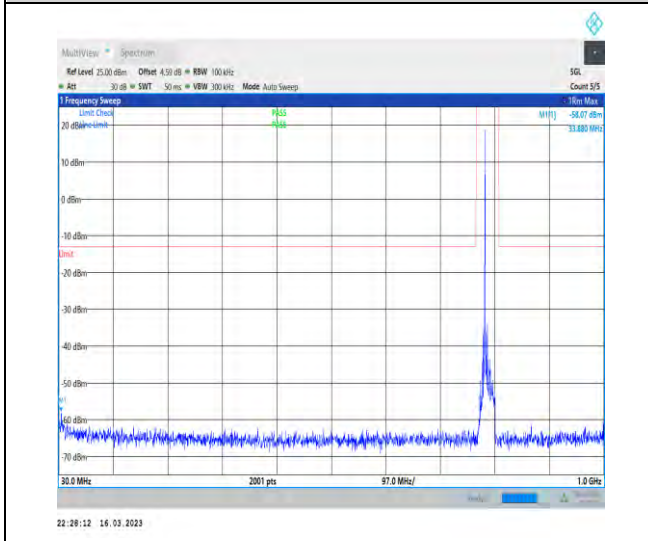
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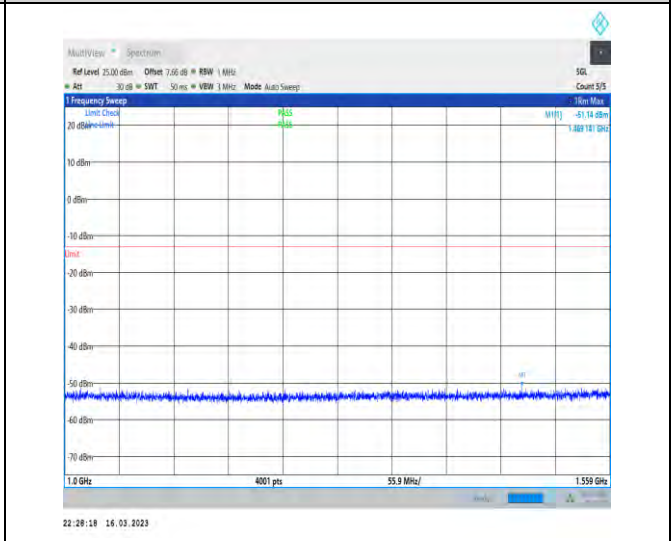
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eft-1@1-0.009-0.15-Ant1-0.06--100.97--33-PASS



1-N14-PC3-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_Lef  
t-1@1-0.15-30-Ant1-14.57--96.05--23-PASS



1-N14-PC3-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_L  
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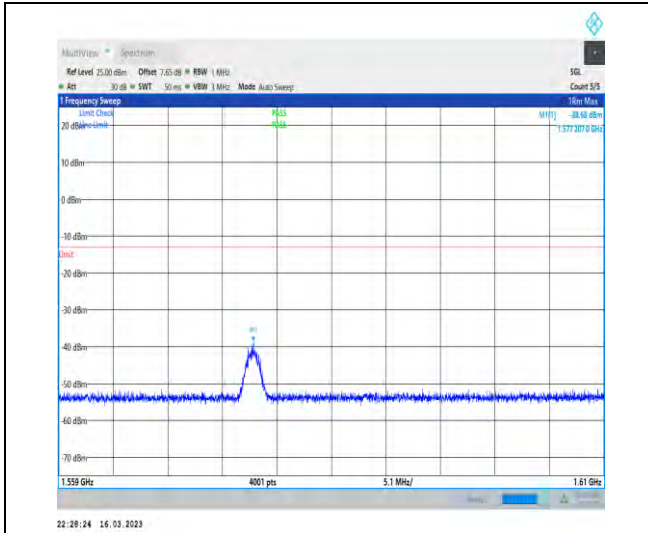


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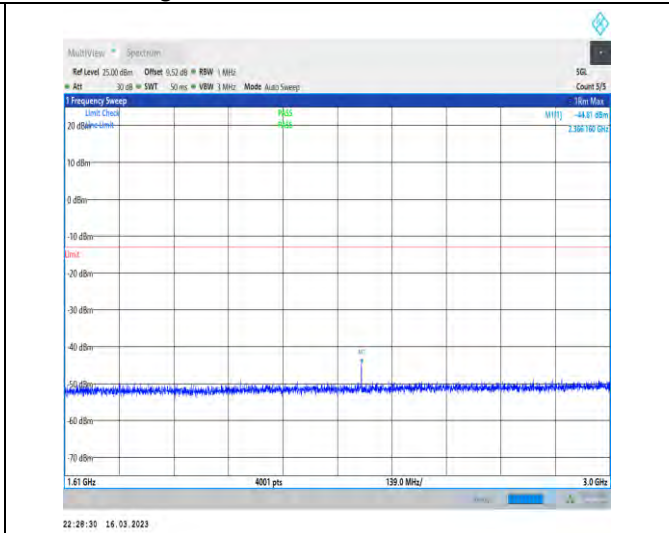


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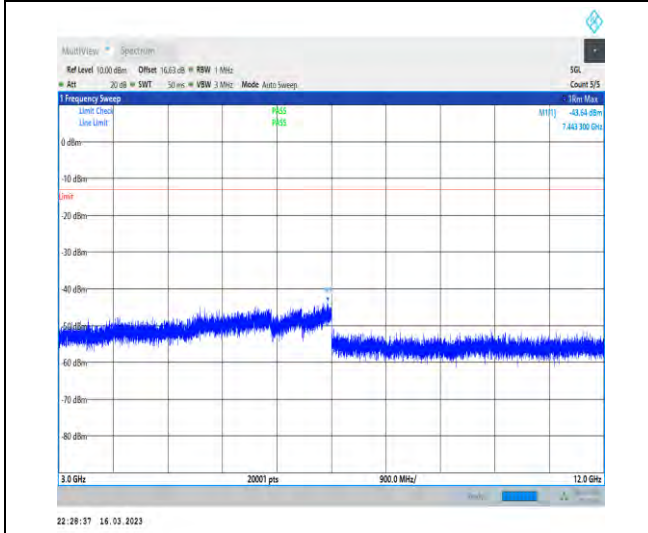
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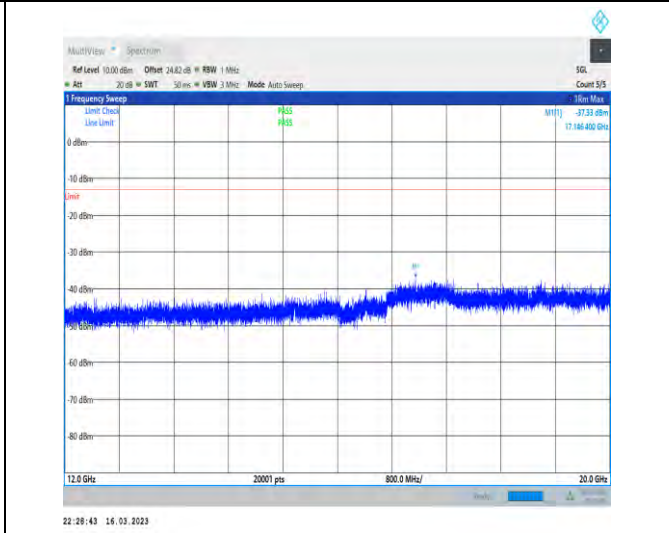
1-N14-PC3-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_L eft-1@1-1559-1610-Ant1-1577.21--38.68--13-PASS



1-N14-PC3-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_L ef t-1@1-1610-3000-Ant1-2366.16--44.81--13-PASS



1-N14-PC3-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_L eft-1@1-3000-12000-Ant1-7443.30--43.64--13-PAS S

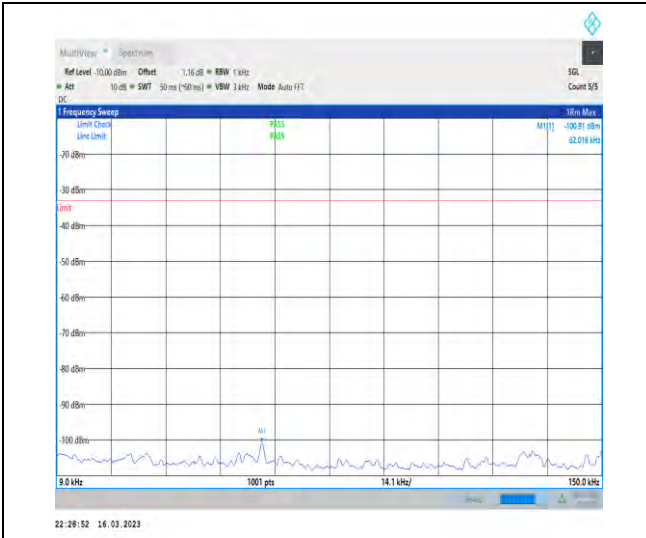


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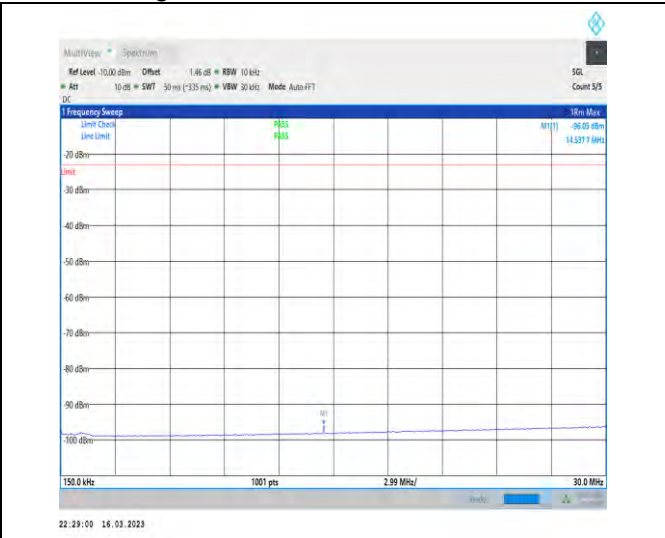


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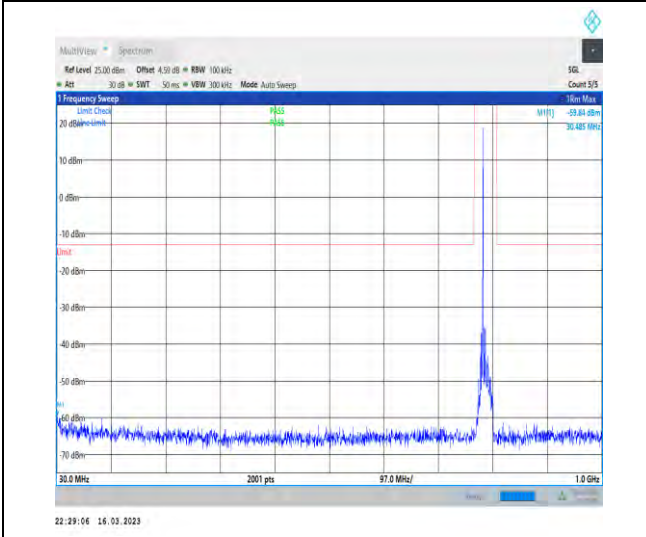
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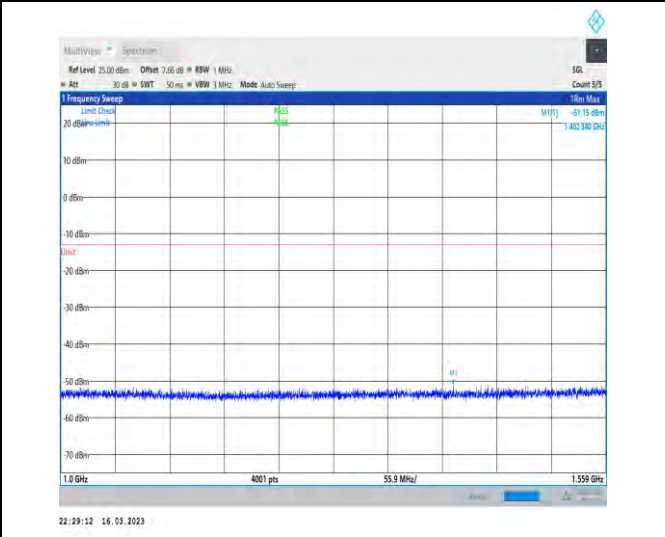
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1-N14-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_Lef t-1@1-0.15-30-Ant1-14.54--96.03--23-PASS



1-N14-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_L eft-1@1-30-1000-Ant1-30.49--59.84--13-PASS

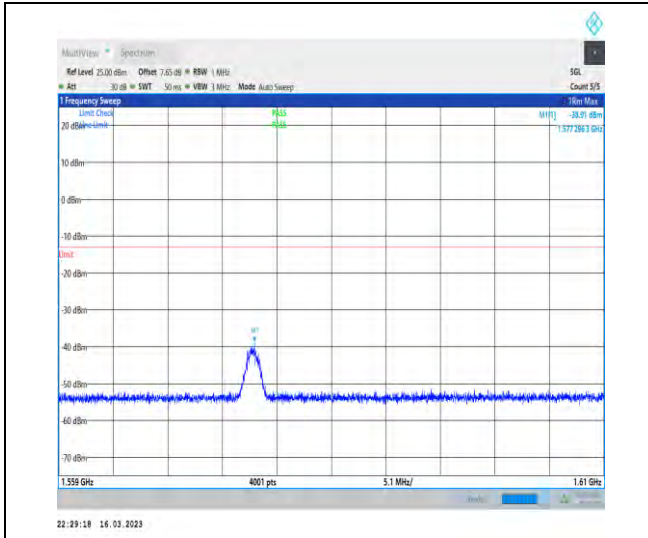


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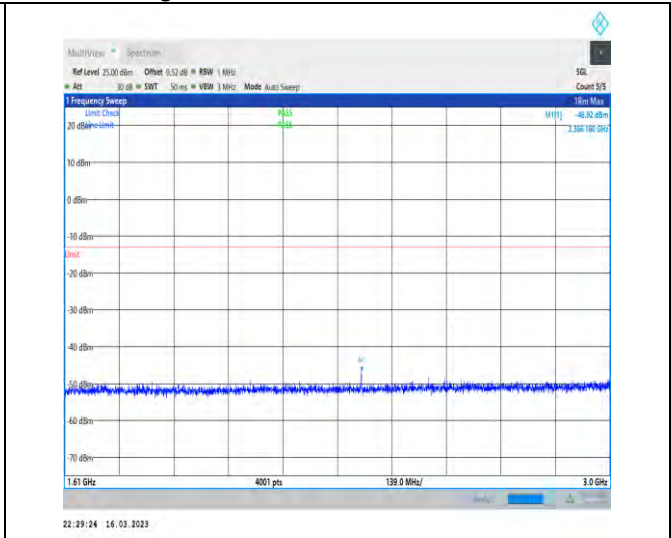


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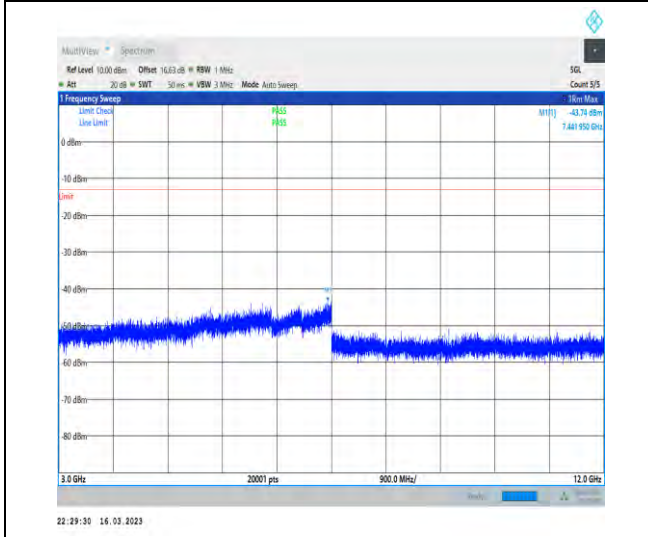
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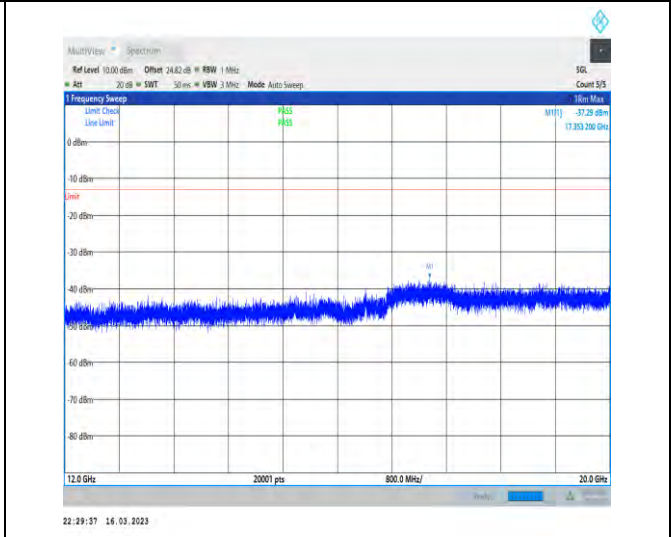
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1-N14-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_L eft-1@1-1610-3000-Ant1-2366.16--46.92--13-PASS



1-N14-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_L eft-1@1-3000-12000-Ant1-7441.95--43.74--13-PAS S



1-N14-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_L eft-1@1-12000-20000-Ant1-17353.20--37.29--13-PASS



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## Field Strength of Spurious Radiation

Test Band = SA Band14\_10MHz\_TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.1800	44.08	-48.29	25.38	-74.09	-40.00	34.09	218	117	Horizontal
2	2365.7700	43.55	-47.47	27.42	-71.75	-13.00	58.75	149	86	Horizontal
3	3154.3600	42.86	-46.50	29.61	-69.29	-13.00	56.29	255	0	Horizontal
4	3942.9500	41.90	-46.22	30.67	-68.91	-13.00	55.91	163	26	Horizontal
5	4731.5400	42.01	-45.75	32.11	-66.89	-13.00	53.89	287	295	Horizontal
6	5520.1300	41.21	-45.17	32.93	-66.28	-13.00	53.28	138	13	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.1800	44.17	-48.29	25.38	-74.00	-40.00	34.00	287	268	Vertical
2	2365.7700	43.60	-47.47	27.42	-71.70	-13.00	58.70	144	349	Vertical
3	3154.3600	43.02	-46.50	29.61	-69.13	-13.00	56.13	162	196	Vertical
4	3942.9500	42.26	-46.22	30.67	-68.55	-13.00	55.55	205	123	Vertical
5	4731.5400	41.99	-45.75	32.11	-66.91	-13.00	53.91	286	170	Vertical
6	5520.1300	41.43	-45.17	32.93	-66.06	-13.00	53.06	299	255	Vertical



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Test Band = SA Band14\_5MHz\_TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.6800	45.10	-48.29	25.37	-73.07	-40.00	33.07	294	0	Horizontal
2	2372.5200	43.58	-47.46	27.43	-71.72	-13.00	58.72	158	356	Horizontal
3	3163.3600	43.55	-46.46	29.62	-68.55	-13.00	55.55	293	135	Horizontal
4	3954.2000	42.54	-46.21	30.69	-68.24	-13.00	55.24	211	306	Horizontal
5	4745.0400	42.20	-45.73	32.15	-66.64	-13.00	53.64	136	1	Horizontal
6	5535.8800	41.04	-45.19	32.95	-66.46	-13.00	53.46	152	359	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.6800	44.83	-48.29	25.37	-73.34	-40.00	33.34	185	157	Vertical
2	2372.5200	43.91	-47.46	27.43	-71.39	-13.00	58.39	244	0	Vertical
3	3163.3600	43.99	-46.46	29.62	-68.11	-13.00	55.11	192	40	Vertical
4	3954.2000	42.95	-46.21	30.69	-67.83	-13.00	54.83	235	1	Vertical
5	4745.0400	42.13	-45.73	32.15	-66.71	-13.00	53.71	284	186	Vertical
6	5535.8800	40.90	-45.19	32.95	-66.60	-13.00	53.60	162	54	Vertical



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Test Band = SA Band14\_5MHz\_TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.6800	44.75	-48.29	25.37	-73.43	-40.00	33.43	187	341	Horizontal
2	2380.0200	43.99	-47.46	27.43	-71.30	-13.00	58.30	149	329	Horizontal
3	3173.3600	42.70	-46.41	29.64	-69.33	-13.00	56.33	255	355	Horizontal
4	3966.7000	42.43	-46.21	30.72	-68.32	-13.00	55.32	186	289	Horizontal
5	4760.0400	41.29	-45.70	32.20	-67.47	-13.00	54.47	214	103	Horizontal
6	5553.3800	40.96	-45.21	32.97	-66.54	-13.00	53.54	133	130	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.6800	44.49	-48.29	25.37	-73.69	-40.00	33.69	219	58	Vertical
2	2380.0200	43.57	-47.46	27.43	-71.72	-13.00	58.72	258	357	Vertical
3	3173.3600	42.64	-46.41	29.64	-69.39	-13.00	56.39	162	334	Vertical
4	3966.7000	42.54	-46.21	30.72	-68.21	-13.00	55.21	132	2	Vertical
5	4760.0400	41.36	-45.70	32.20	-67.40	-13.00	54.40	184	357	Vertical
6	5553.3800	41.20	-45.21	32.97	-66.30	-13.00	53.30	165	357	Vertical



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Test Band = SA Band14\_5MHz\_TM1

Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.1800	44.46	-48.29	25.38	-73.71	-40.00	33.71	187	38	Horizontal
2	2365.7700	43.99	-47.47	27.42	-71.31	-13.00	58.31	194	222	Horizontal
3	3154.3600	42.85	-46.50	29.61	-69.30	-13.00	56.30	215	130	Horizontal
4	3942.9500	42.39	-46.22	30.67	-68.42	-13.00	55.42	162	331	Horizontal
5	4731.5400	42.47	-45.75	32.11	-66.43	-13.00	53.43	188	355	Horizontal
6	5520.1300	40.86	-45.17	32.93	-66.63	-13.00	53.63	175	12	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.1800	44.78	-48.29	25.38	-73.39	-40.00	33.39	166	348	Vertical
2	2365.7700	44.22	-47.47	27.42	-71.08	-13.00	58.08	195	0	Vertical
3	3154.3600	42.89	-46.50	29.61	-69.26	-13.00	56.26	325	188	Vertical
4	3942.9500	42.10	-46.22	30.67	-68.71	-13.00	55.71	172	357	Vertical
5	4731.5400	41.68	-45.75	32.11	-67.22	-13.00	54.22	214	297	Vertical
6	5520.1300	41.05	-45.17	32.93	-66.44	-13.00	53.44	182	267	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) - Preamplifier (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

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N14	15	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	2.500000	0.003153	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	2.500000	0.003153	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	VL	NT	2.600000	0.003279	PASS
N14	15	10	CP-QPSK	M	Outer_Full	VH	NT	5.200000	0.006557	PASS
N14	15	10	CP-QPSK	M	Outer_Full	VN	NT	3.000000	0.003783	PASS
N14	15	10	CP-QPSK	M	Outer_Full	VL	NT	10.400000	0.013115	PASS

#### Frequency Error VS. Temperature

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	1.600000	0.002018	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	3.600000	0.004540	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	3.400000	0.004288	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	0	1.800000	0.002270	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	10	3.500000	0.004414	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	20	2.200000	0.002774	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	30	4.400000	0.005549	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	40	4.200000	0.005296	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	50	5.300000	0.006683	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	-30	2.900000	0.003657	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	-20	5.100000	0.006431	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	-10	5.800000	0.007314	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	0	6.900000	0.008701	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	10	4.500000	0.005675	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	20	2.900000	0.003657	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	30	5.000000	0.006305	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	40	5.100000	0.006431	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	50	4.000000	0.005044	PASS

---End of Attachment---



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