



Report No.: SEWM2308000314RG02

Rev.: 01

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# Appendix B.21

## NR Band n30



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

### Test Result

#### ANT3

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (dBm/5MHz)	EIRP (dBm/5MHz)	Limit (dBm/5MHz)	Verdict
N30	15	5	DFT-QPSK	L	Inner_1RB_Left	22.05	21.45	23.98	PASS
N30	15	5	DFT-16QAM	L	Inner_1RB_Left	21.15	20.55	23.98	PASS
N30	15	5	DFT-QPSK	M	Inner_1RB_Left	22.22	21.62	23.98	PASS
N30	15	5	DFT-16QAM	M	Inner_1RB_Left	21.19	20.59	23.98	PASS
N30	15	5	DFT-QPSK	H	Inner_1RB_Left	22.33	21.73	23.98	PASS
N30	15	5	DFT-16QAM	H	Inner_1RB_Left	21.38	20.78	23.98	PASS
N30	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	21.94	21.34	23.98	PASS
N30	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	22.07	21.47	23.98	PASS
N30	15	10	DFT-PI2BPSK	L	Outer_Full	21.74	21.14	23.98	PASS
N30	15	10	DFT-QPSK	L	Inner_1RB_Left	22.28	21.68	23.98	PASS
N30	15	10	DFT-QPSK	L	Inner_1RB_Right	22.39	21.79	23.98	PASS
N30	15	10	DFT-QPSK	L	Outer_Full	21.50	20.90	23.98	PASS
N30	15	10	DFT-16QAM	L	Inner_1RB_Left	21.18	20.58	23.98	PASS
N30	15	10	DFT-16QAM	L	Inner_1RB_Right	21.40	20.80	23.98	PASS
N30	15	10	DFT-16QAM	L	Outer_Full	20.45	19.85	23.98	PASS
N30	15	10	DFT-64QAM	L	Inner_1RB_Left	20.19	19.59	23.98	PASS
N30	15	10	DFT-64QAM	L	Inner_1RB_Right	20.27	19.67	23.98	PASS
N30	15	10	DFT-64QAM	L	Outer_Full	19.90	19.30	23.98	PASS
N30	15	10	DFT-256QAM	L	Inner_1RB_Left	17.71	17.11	23.98	PASS
N30	15	10	DFT-256QAM	L	Inner_1RB_Right	17.80	17.20	23.98	PASS
N30	15	10	DFT-256QAM	L	Outer_Full	17.93	17.33	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	21.93	21.33	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	22.19	21.59	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	21.75	21.15	23.98	PASS
N30	15	10	DFT-QPSK	M	Inner_1RB_Left	22.28	21.68	23.98	PASS
N30	15	10	DFT-QPSK	M	Inner_1RB_Right	22.36	21.76	23.98	PASS
N30	15	10	DFT-QPSK	M	Outer_Full	21.45	20.85	23.98	PASS
N30	15	10	DFT-16QAM	M	Inner_1RB_Left	21.11	20.51	23.98	PASS
N30	15	10	DFT-16QAM	M	Inner_1RB_Right	21.34	20.74	23.98	PASS



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N30	15	10	DFT-16QAM	M	Outer_Full	20.47	19.87	23.98	PASS
N30	15	10	DFT-64QAM	M	Inner_1RB_Left	20.15	19.55	23.98	PASS
N30	15	10	DFT-64QAM	M	Inner_1RB_Right	20.31	19.71	23.98	PASS
N30	15	10	DFT-64QAM	M	Outer_Full	19.95	19.35	23.98	PASS
N30	15	10	DFT-256QAM	M	Inner_1RB_Left	17.74	17.14	23.98	PASS
N30	15	10	DFT-256QAM	M	Inner_1RB_Right	17.89	17.29	23.98	PASS
N30	15	10	DFT-256QAM	M	Outer_Full	17.95	17.35	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	21.95	21.35	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	22.19	21.59	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Outer_Full	21.71	21.11	23.98	PASS
N30	15	10	DFT-QPSK	H	Inner_1RB_Left	22.29	21.69	23.98	PASS
N30	15	10	DFT-QPSK	H	Inner_1RB_Right	22.52	21.92	23.98	PASS
N30	15	10	DFT-QPSK	H	Outer_Full	21.48	20.88	23.98	PASS
N30	15	10	DFT-16QAM	H	Inner_1RB_Left	21.16	20.56	23.98	PASS
N30	15	10	DFT-16QAM	H	Inner_1RB_Right	21.38	20.78	23.98	PASS
N30	15	10	DFT-16QAM	H	Outer_Full	20.46	19.86	23.98	PASS
N30	15	10	DFT-64QAM	H	Inner_1RB_Left	20.29	19.69	23.98	PASS
N30	15	10	DFT-64QAM	H	Inner_1RB_Right	20.29	19.69	23.98	PASS
N30	15	10	DFT-64QAM	H	Outer_Full	19.92	19.32	23.98	PASS
N30	15	10	DFT-256QAM	H	Inner_1RB_Left	17.74	17.14	23.98	PASS
N30	15	10	DFT-256QAM	H	Inner_1RB_Right	17.88	17.28	23.98	PASS
N30	15	10	DFT-256QAM	H	Outer_Full	17.91	17.31	23.98	PASS



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### Peak-to-Average Ratio for SA

#### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N30	15	10	DFT-256QAM	L	Outer_Full	8.75	≤13	PASS
N30	15	10	CP-256QAM	L	Outer_Full	9.36	≤13	PASS
N30	15	10	DFT-256QAM	M	Outer_Full	8.84	≤13	PASS
N30	15	10	CP-256QAM	M	Outer_Full	9.43	≤13	PASS
N30	15	10	DFT-256QAM	H	Outer_Full	8.75	≤13	PASS
N30	15	10	CP-256QAM	H	Outer_Full	9.48	≤13	PASS

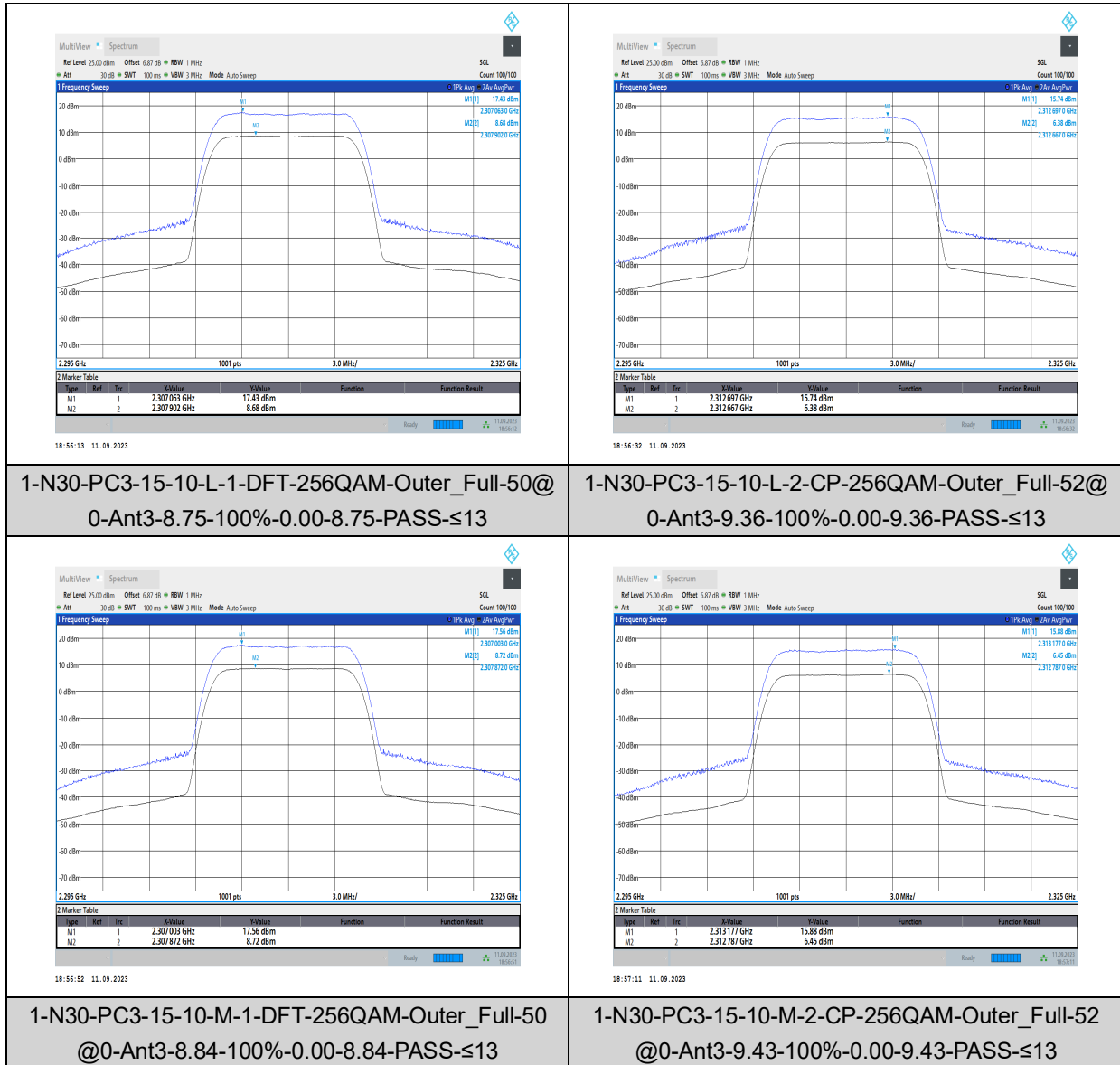


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Test Graphs



1-N30-PC3-15-10-L-1-DFT-256QAM-Outer\_Full-50@  
 0-Ant3-8.75-100%-0.00-8.75-PASS-≤13

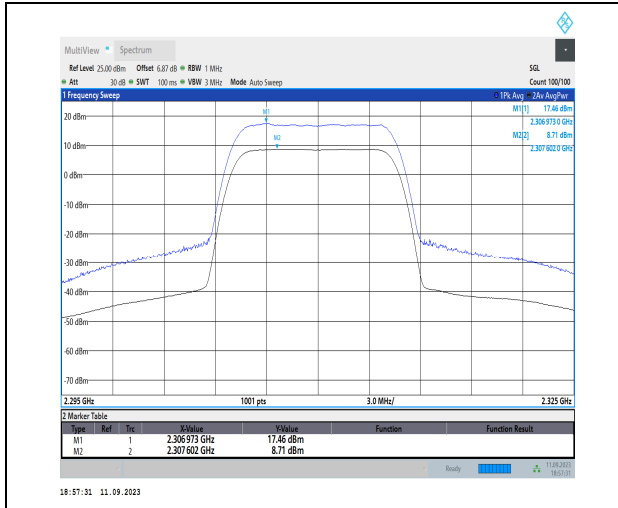
1-N30-PC3-15-10-L-2-CP-256QAM-Outer\_Full-52@  
 0-Ant3-9.36-100%-0.00-9.36-PASS-≤13

1-N30-PC3-15-10-M-1-DFT-256QAM-Outer\_Full-50  
 @0-Ant3-8.84-100%-0.00-8.84-PASS-≤13

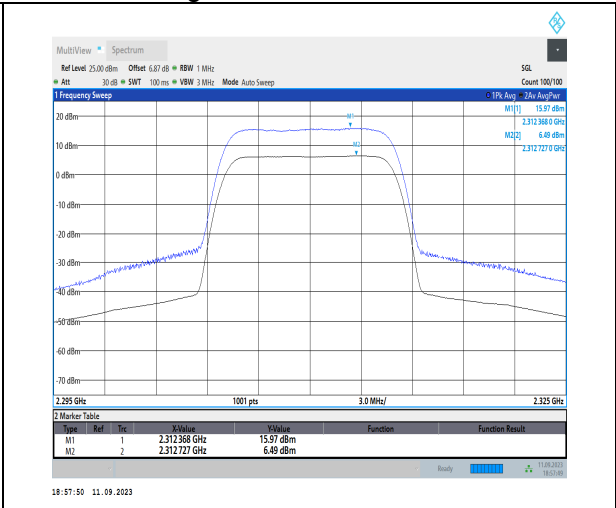
1-N30-PC3-15-10-M-2-CP-256QAM-Outer\_Full-52  
 @0-Ant3-9.43-100%-0.00-9.43-PASS-≤13



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1-N30-PC3-15-10-H-1-DFT-256QAM-Outer\_Full-50  
@0-Ant3-8.75-100%-0.00-8.75-PASS-≤13



1-N30-PC3-15-10-H-2-CP-256QAM-Outer\_Full-52@  
0-Ant3-9.48-100%-0.00-9.48-PASS-≤13



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## 26dB Bandwidth and Occupied Bandwidth for SA

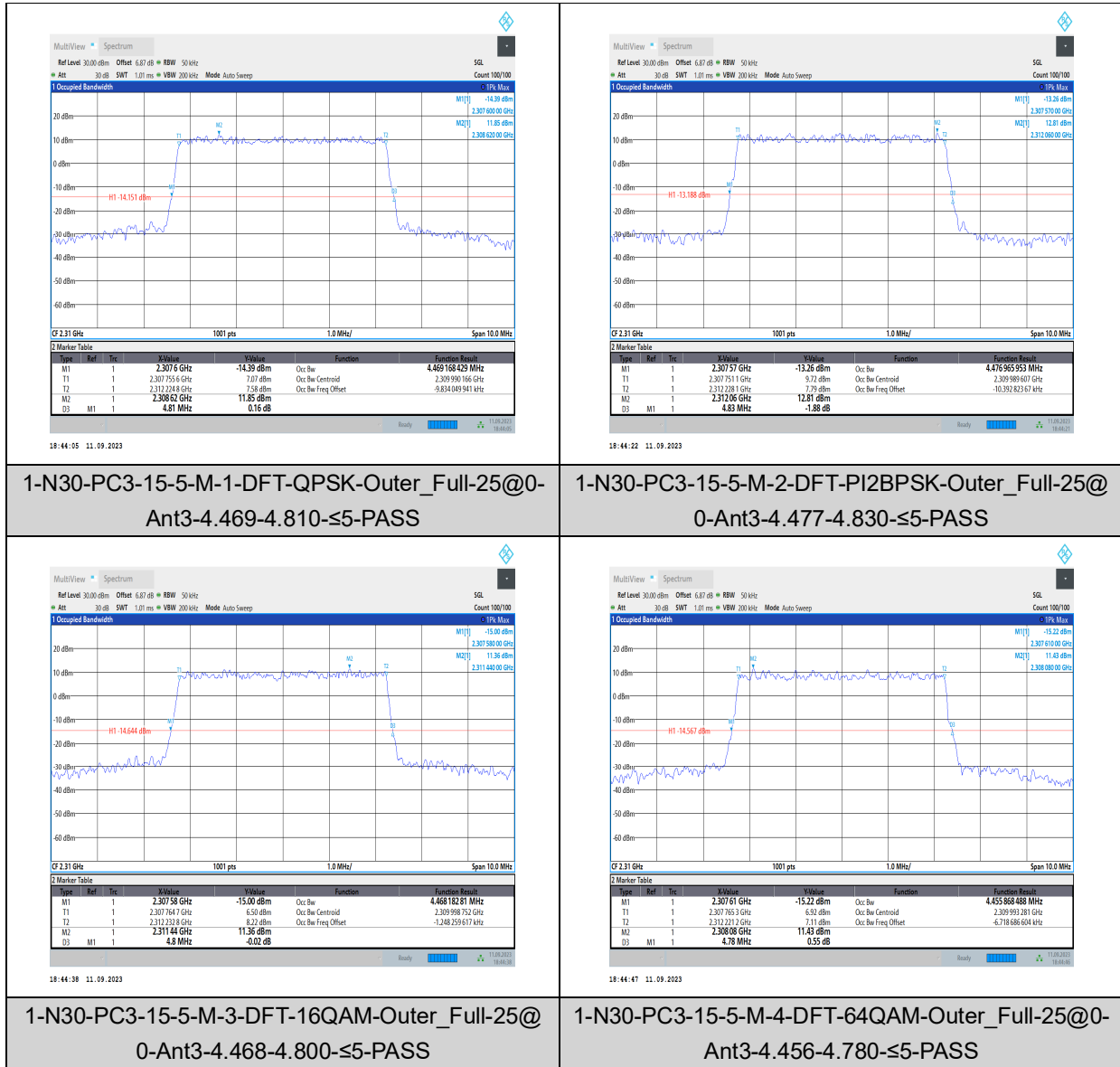
### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N30	15	5	DFT-QPSK	M	Outer_Full	4.469	4.810	PASS
N30	15	5	DFT-PI2BPSK	M	Outer_Full	4.477	4.830	PASS
N30	15	5	DFT-16QAM	M	Outer_Full	4.468	4.800	PASS
N30	15	5	DFT-64QAM	M	Outer_Full	4.456	4.780	PASS
N30	15	5	DFT-256QAM	M	Outer_Full	4.48	4.780	PASS
N30	15	5	CP-QPSK	M	Outer_Full	4.468	4.820	PASS
N30	15	5	CP-16QAM	M	Outer_Full	4.469	4.750	PASS
N30	15	5	CP-64QAM	M	Outer_Full	4.479	4.800	PASS
N30	15	5	CP-256QAM	M	Outer_Full	4.464	4.820	PASS
N30	15	10	DFT-QPSK	M	Outer_Full	8.936	9.340	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	8.905	9.400	PASS
N30	15	10	DFT-16QAM	M	Outer_Full	8.935	9.380	PASS
N30	15	10	DFT-64QAM	M	Outer_Full	8.925	9.400	PASS
N30	15	10	DFT-256QAM	M	Outer_Full	8.907	9.340	PASS
N30	15	10	CP-QPSK	M	Outer_Full	9.312	9.820	PASS
N30	15	10	CP-16QAM	M	Outer_Full	9.295	9.720	PASS
N30	15	10	CP-64QAM	M	Outer_Full	9.267	9.720	PASS
N30	15	10	CP-256QAM	M	Outer_Full	9.27	9.780	PASS



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Test Graphs

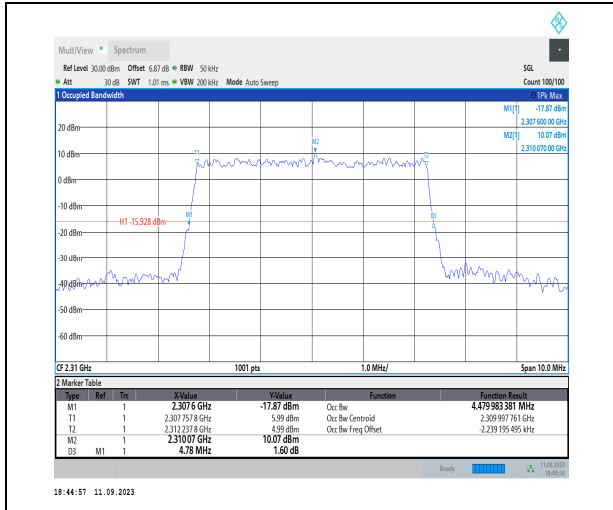


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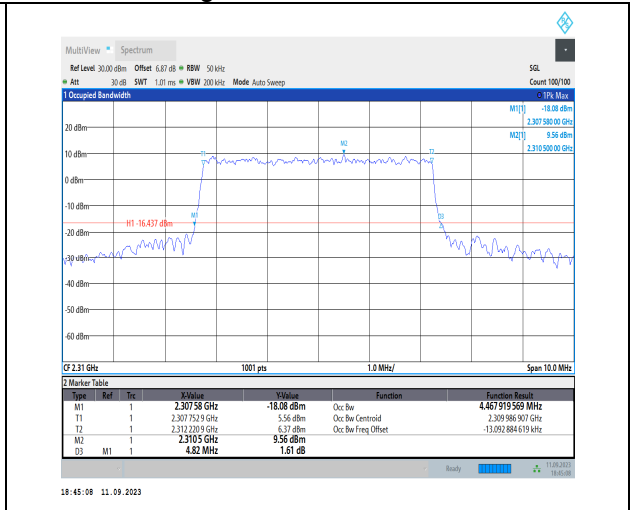
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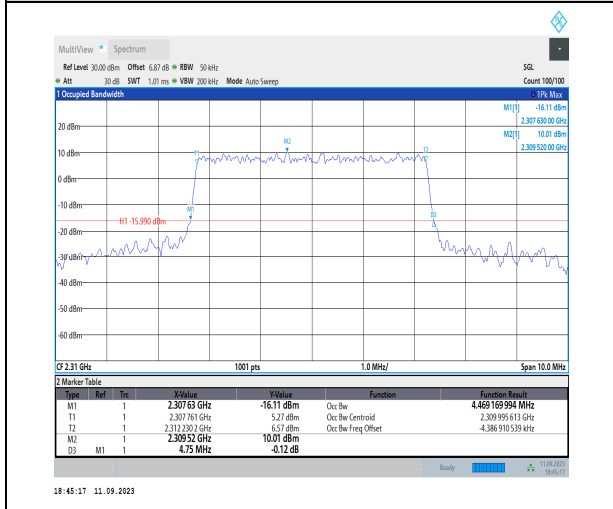




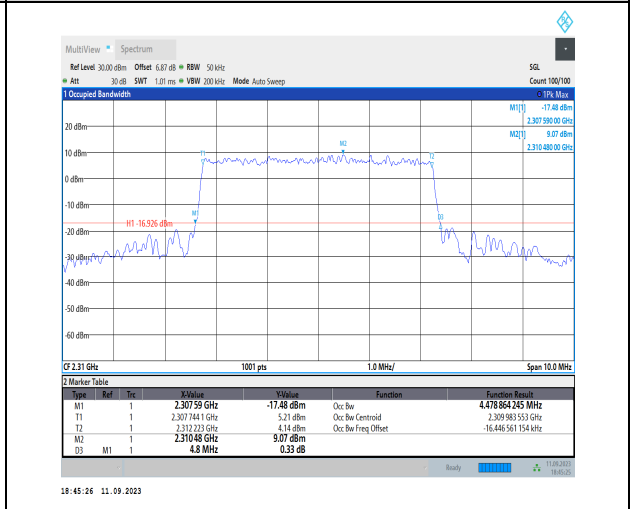
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1-N30-PC3-15-5-M-6-CP-QPSK-Outer\_Full-25@0-Ant3-4.468-4.820-<math>\leq 5</math>-PASS



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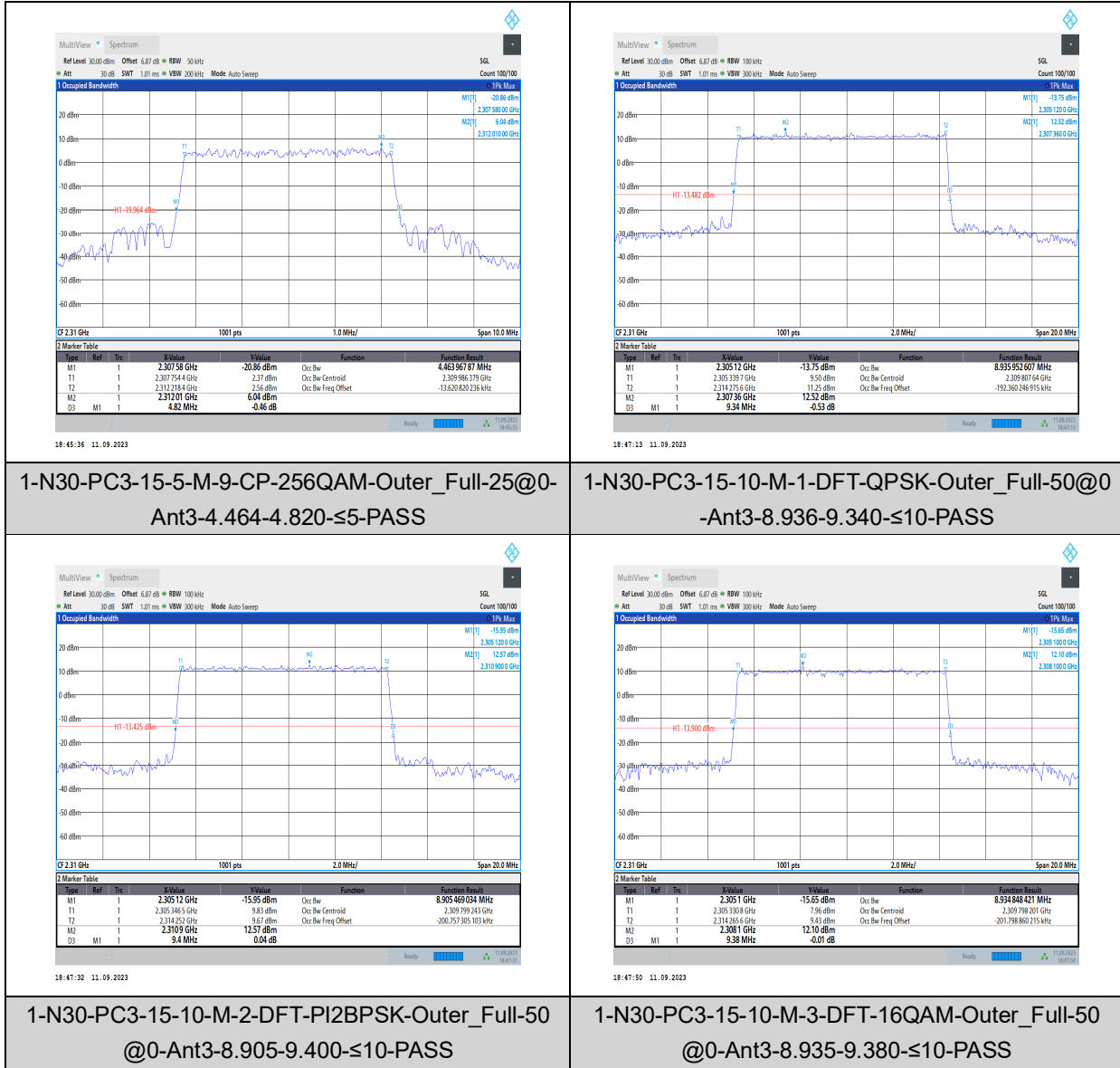


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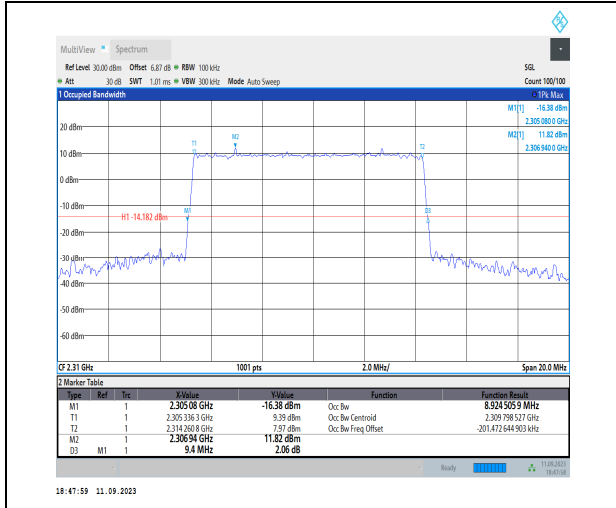
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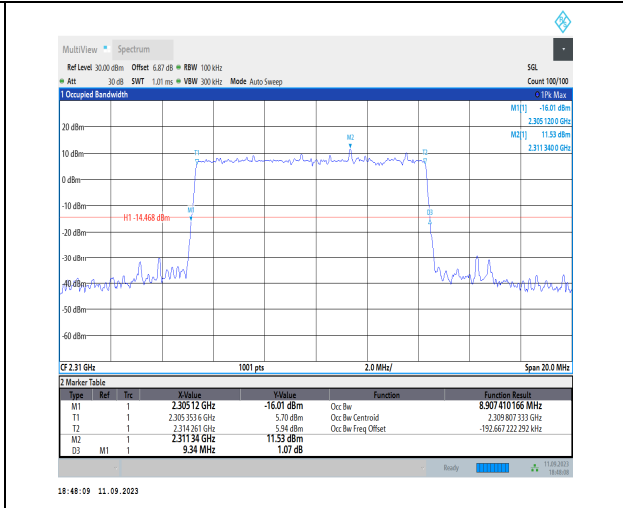
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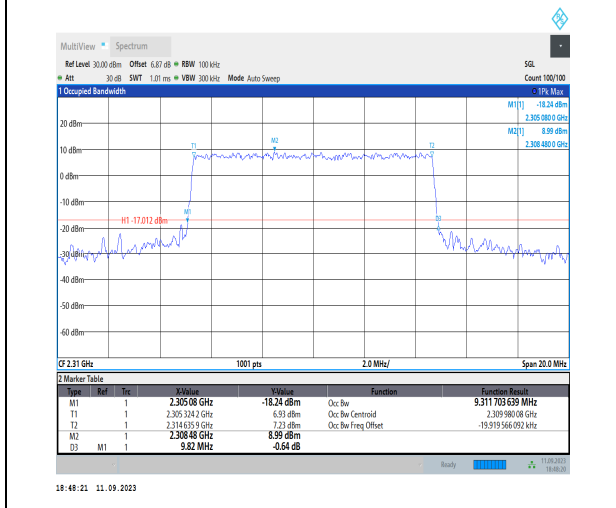
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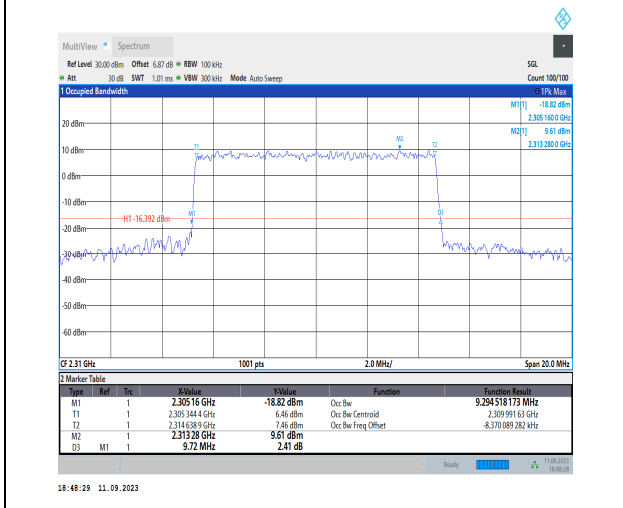
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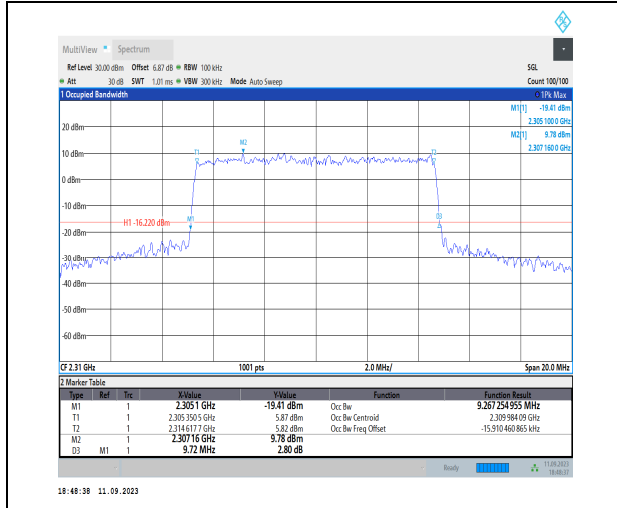
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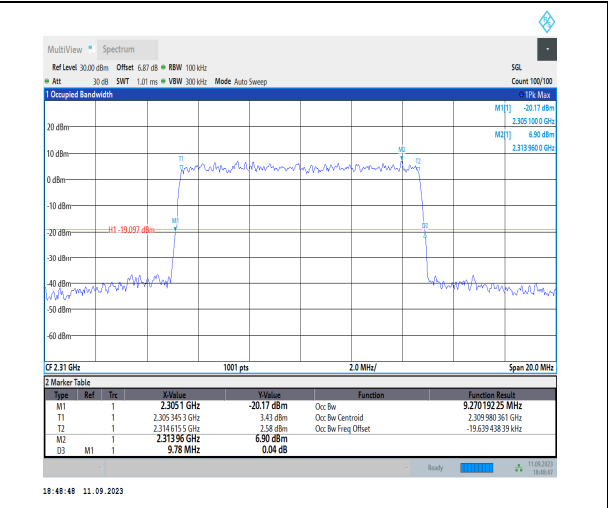
1-N30-PC3-15-10-M-7-CP-16QAM-Outer\_Full-52@0  
-Ant3-9.295-9.720-≤10-PASS



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-Ant3-9.267-9.720-≤10-PASS

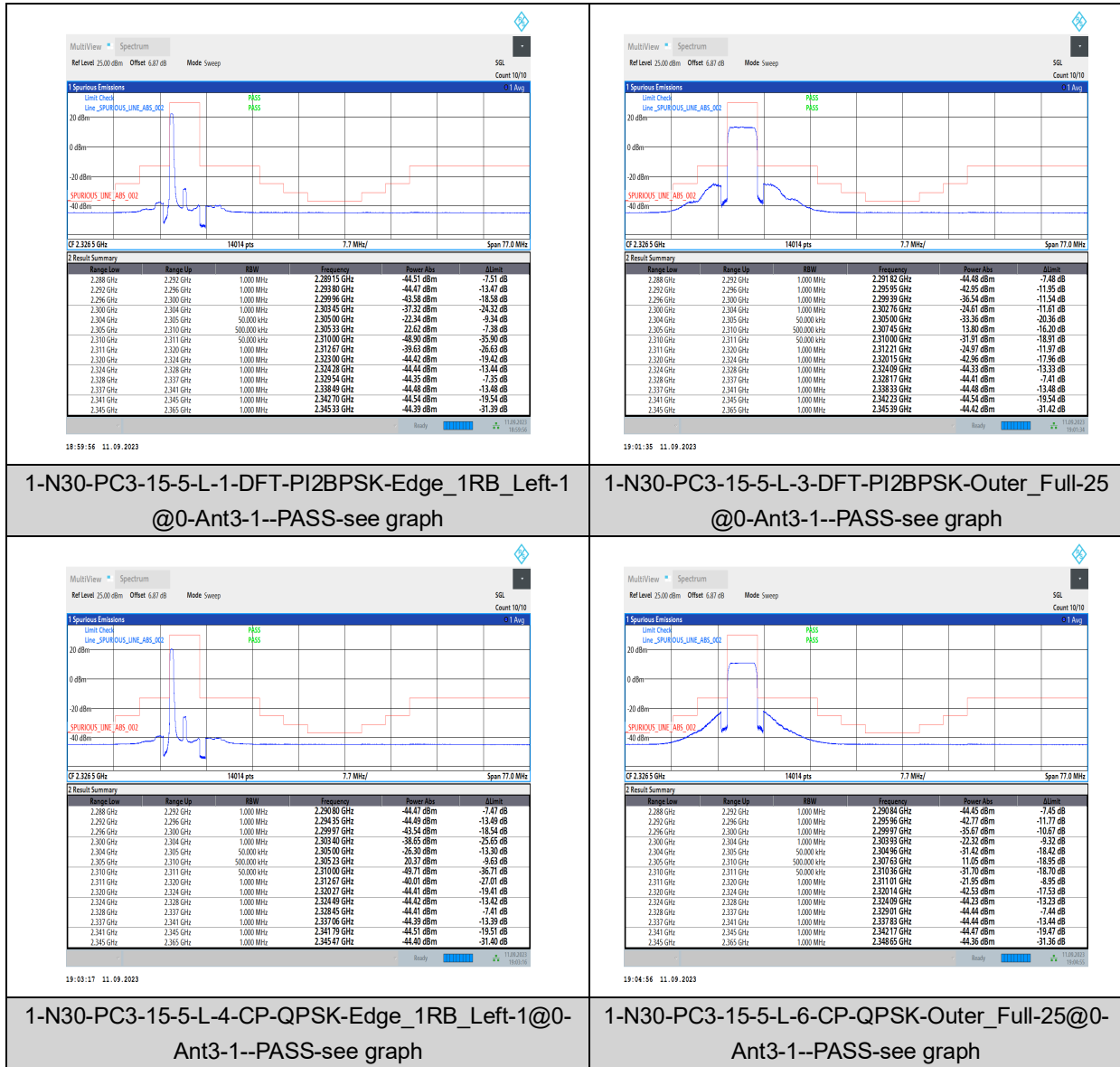


1-N30-PC3-15-10-M-9-CP-256QAM-Outer\_Full-52@0  
0-Ant3-9.27-9.780-≤10-PASS



## Band Edge for SA

### Test Graphs



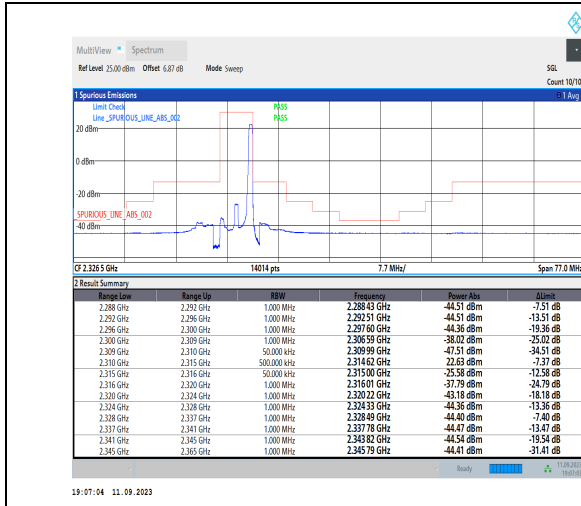
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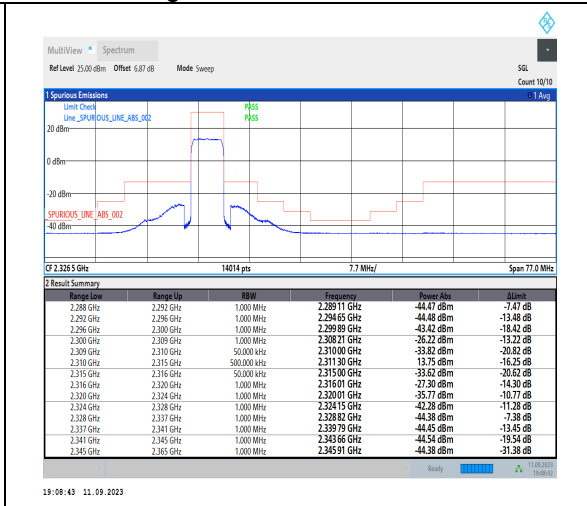
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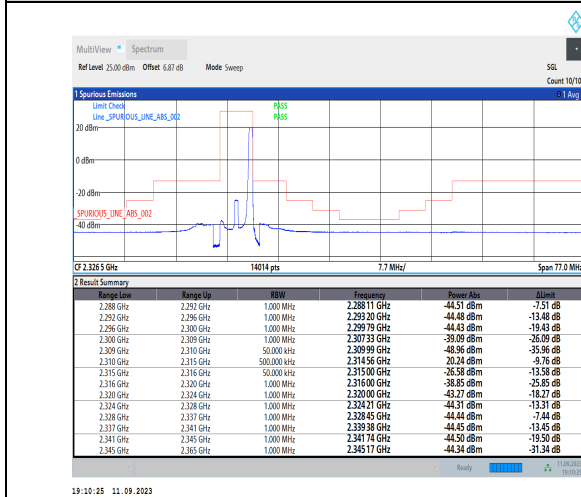
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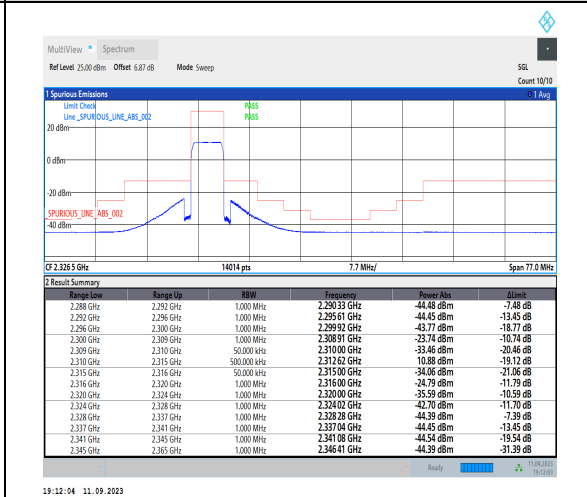
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1-N30-PC3-15-5-H-3-DFT-PI2BPSK-Outer\_Full-25@0-Ant3-1--PASS-see graph



1-N30-PC3-15-5-H-5-CP-QPSK-Edge\_1RB\_Right-1@24-Ant3-1--PASS-see graph



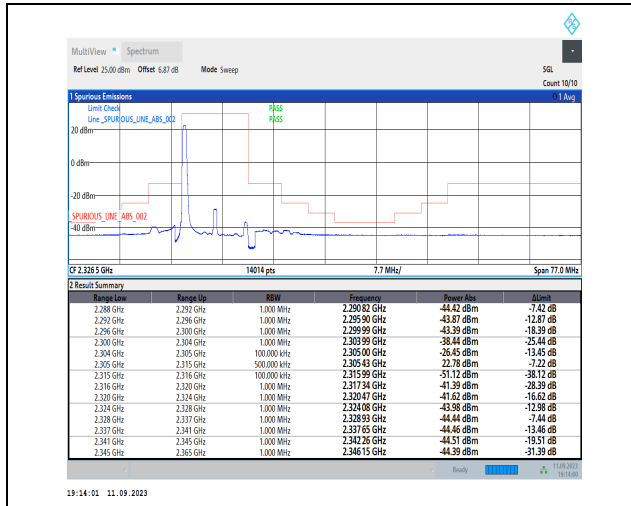
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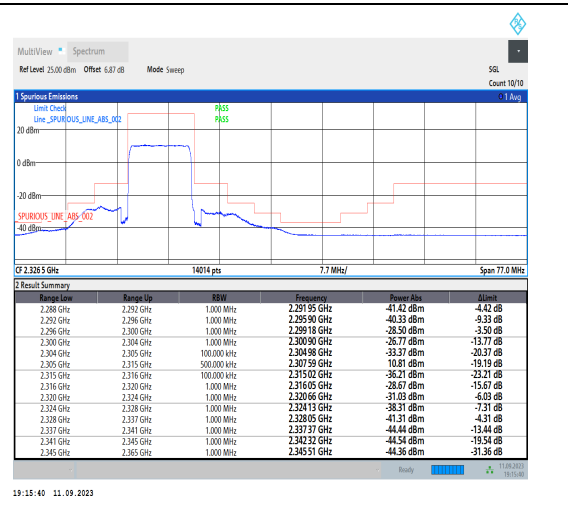
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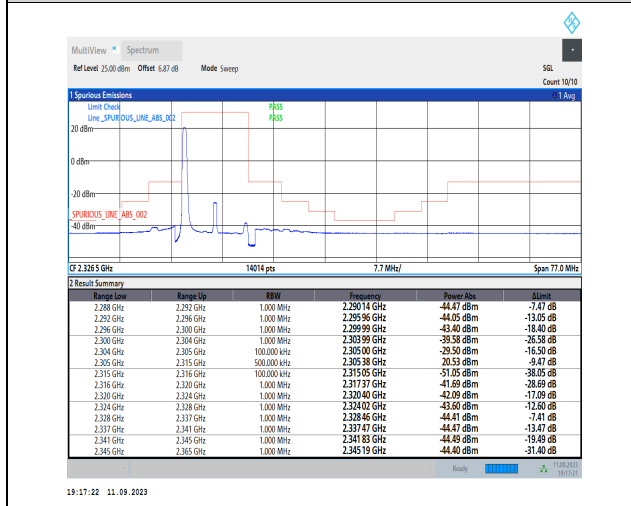
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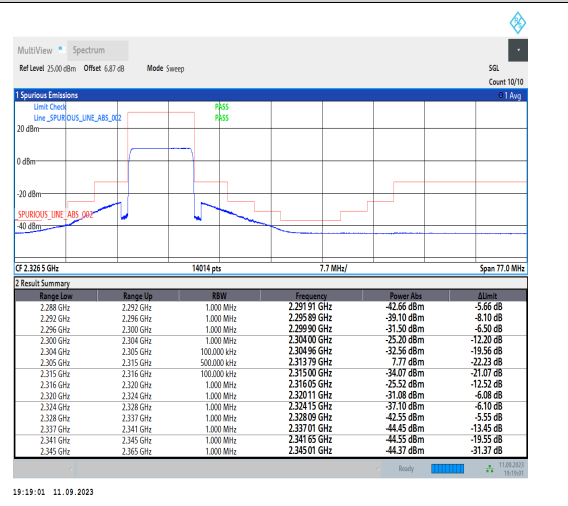
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1-N30-PC3-15-10-L-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant3-1--PASS-see graph



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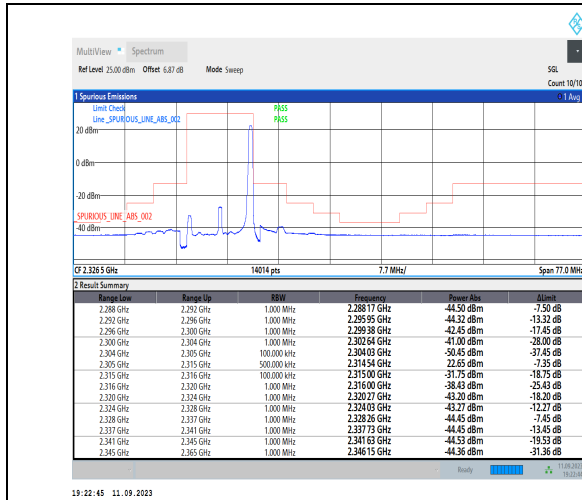
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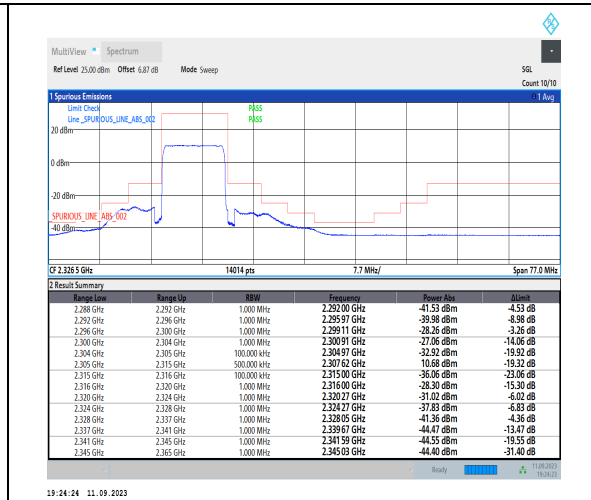
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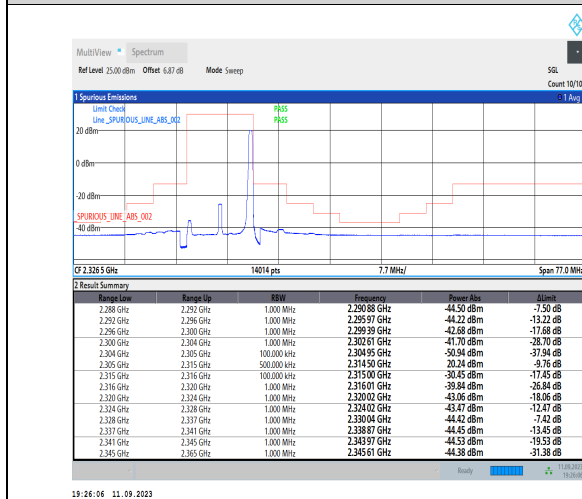
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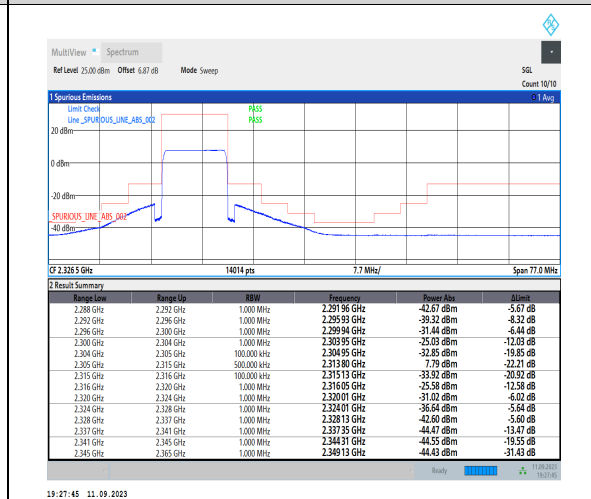
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1-N30-PC3-15-10-H-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant3-1--PASS-see graph



1-N30-PC3-15-10-H-5-CP-QPSK-Edge\_1RB\_Right-1@51-Ant3-1--PASS-see graph



1-N30-PC3-15-10-H-6-CP-QPSK-Outer\_Full-52@0-Ant3-1--PASS-see graph



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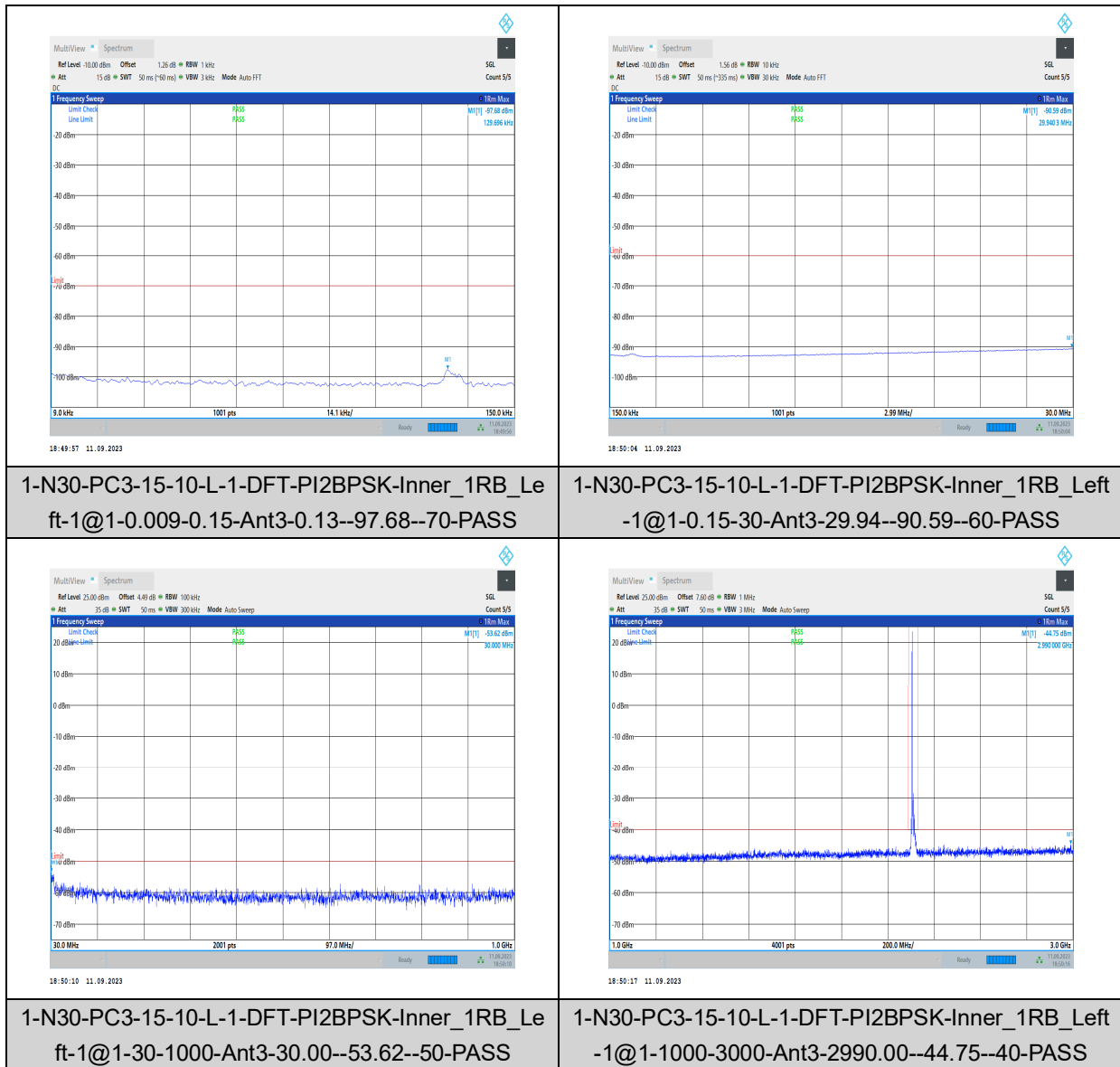
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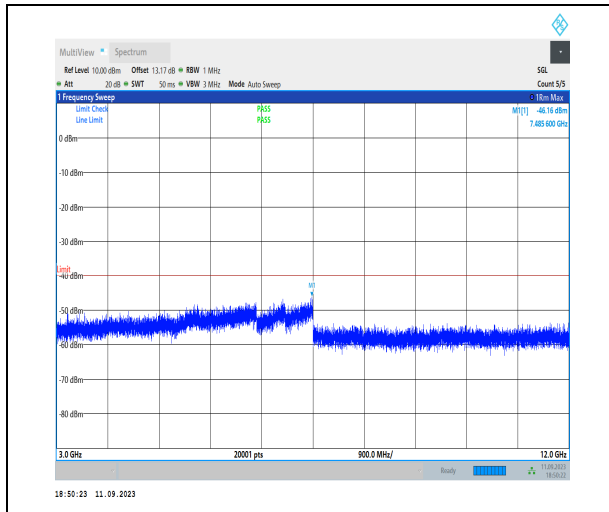
### Test Graphs



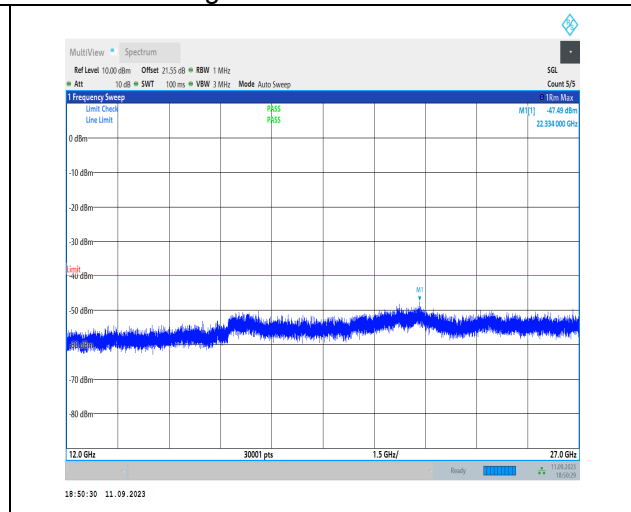
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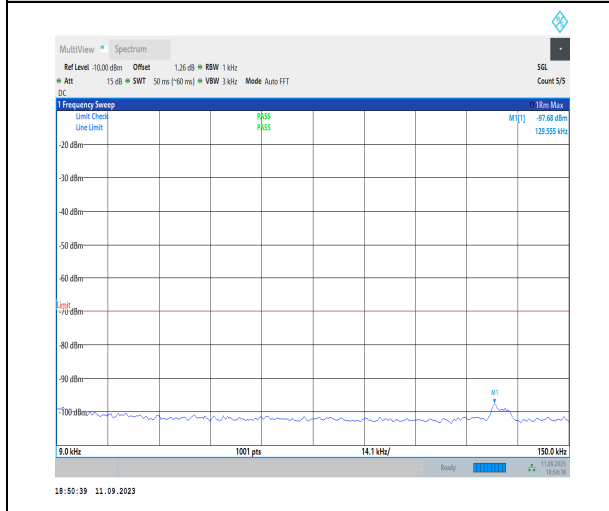
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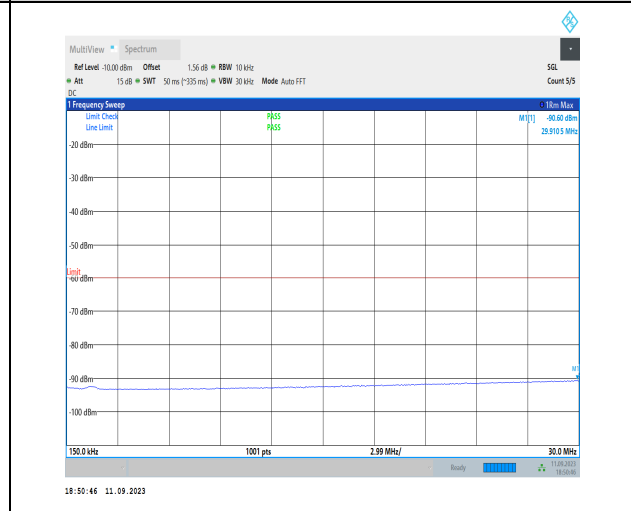
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1-N30-PC3-15-10-L-1-DFT-PI2BPSK-Inner\_1RB\_Left -1@1-12000-27000-Ant3-22334.00--47.49--40-PASS



1-N30-PC3-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_L eft-1@1-0.009-0.15-Ant3-0.13--97.68--70-PASS



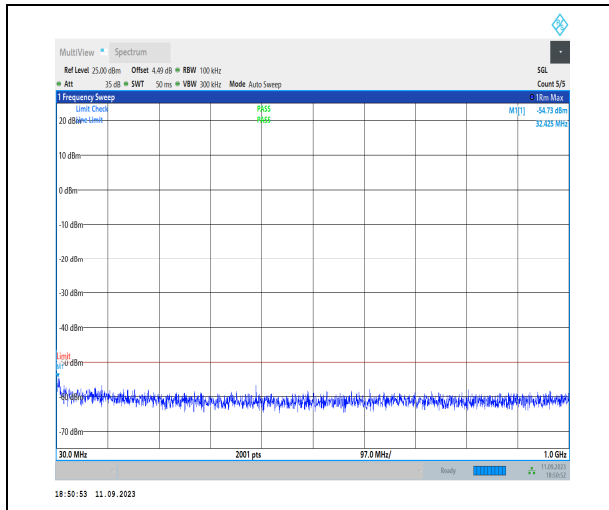
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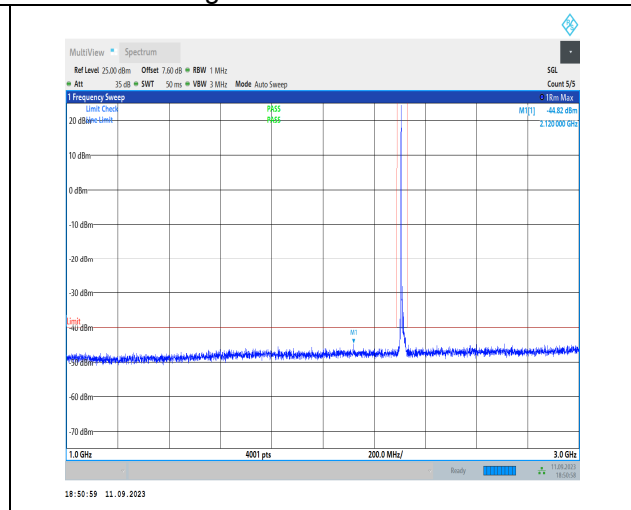
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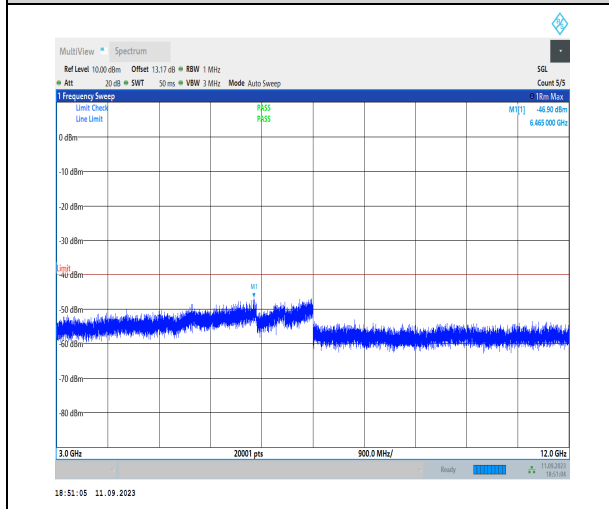
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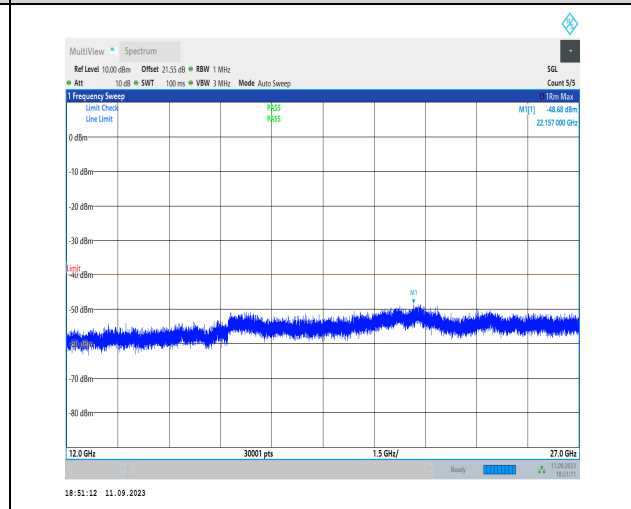
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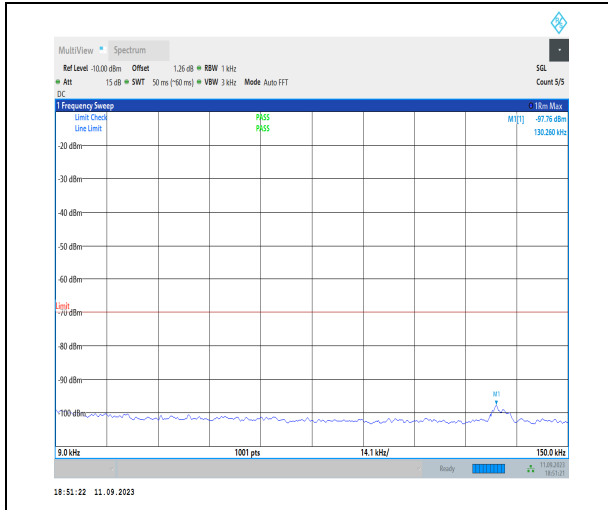
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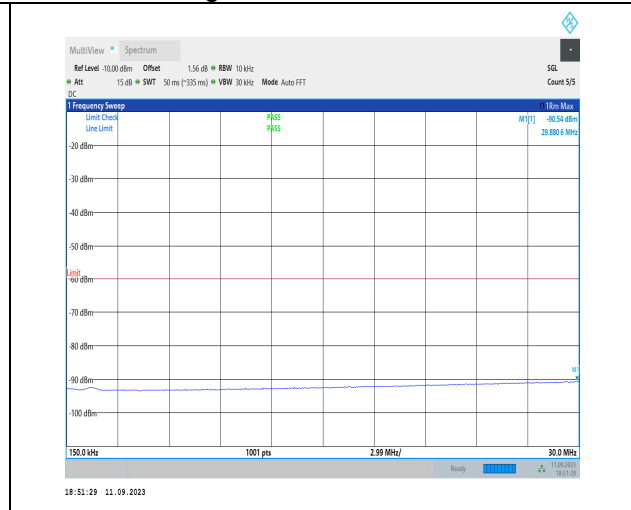
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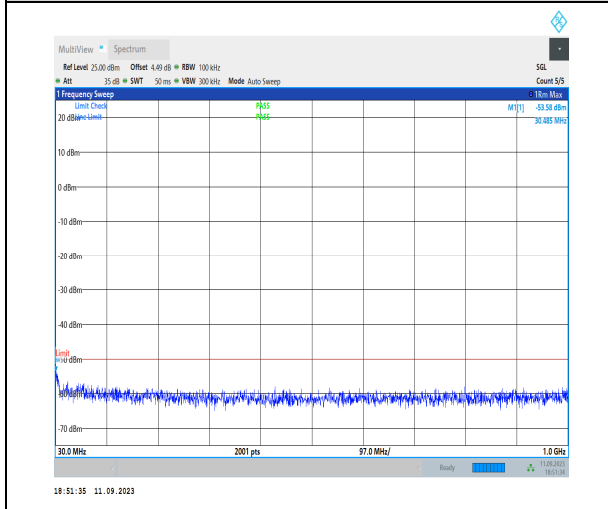
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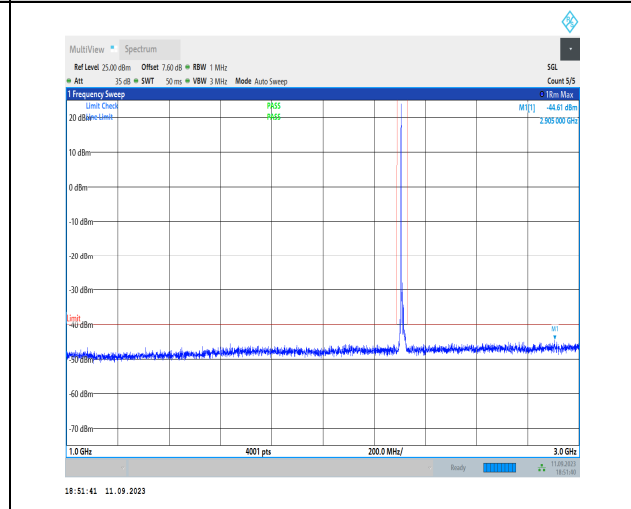
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eft-1@1-0.009-0.15-Ant3-0.13--97.76--70-PASS



1-N30-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_Lef  
t-1@1-0.15-30-Ant3-29.88--90.54--60-PASS



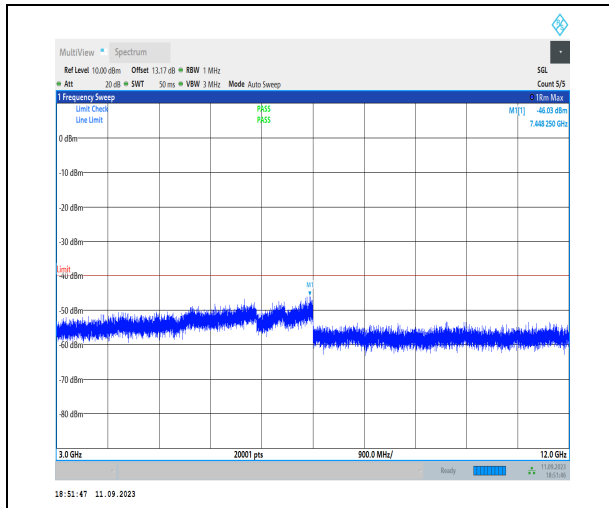
1-N30-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_L  
eft-1@1-30-1000-Ant3-30.49--53.58--50-PASS



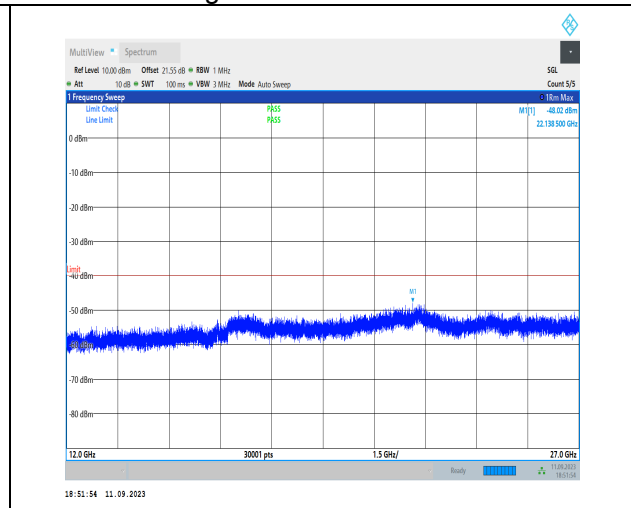
1-N30-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_Lef  
t-1@1-1000-3000-Ant3-2905.00--44.61--40-PASS



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1-N30-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_L  
 eff-1@1-3000-12000-Ant3-7448.25--46.03--40-PAS  
 S



1-N30-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_Lef  
 t-1@1-12000-27000-Ant3-22138.50--48.02--40-PASS



### Field Strength of Spurious Radiation

Test Band = SA Band 30 BW 10M\_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4560.5	39.45	-41.78	32.23	-65.36	-40.00	25.36	Horizontal
2	6260.5	37.48	-39.57	35.32	-62.03	-40.00	22.03	Horizontal
3	7832	35.75	-36.73	36.93	-59.31	-40.00	19.31	Horizontal
4	9599.5	33.71	-33.49	37.78	-57.26	-40.00	17.26	Horizontal
5	12952.5	31.50	-29.75	39.54	-53.96	-40.00	13.96	Horizontal
6	16877.5	31.25	-25.05	38.81	-50.25	-40.00	10.25	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3962	38.94	-42.78	31.17	-67.93	-40.00	27.93	Vertical
2	6225	36.71	-39.59	35.25	-62.89	-40.00	22.89	Vertical
3	7947	35.63	-36.60	37.05	-59.19	-40.00	19.19	Vertical
4	10498.5	31.46	-31.17	38.15	-56.82	-40.00	16.82	Vertical
5	13037	30.92	-29.46	39.63	-54.18	-40.00	14.18	Vertical
6	16443.5	29.93	-26.45	38.51	-53.27	-40.00	13.27	Vertical



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**Test Band = SA Band 30 BW 5M\_ TM1**
**Test Channel = Low Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4524.5	38.98	-41.93	32.15	-66.06	-40.00	26.06	Horizontal
2	8018	35.49	-36.56	37.11	-59.22	-40.00	19.22	Horizontal
3	10279.5	32.64	-32.18	38.04	-56.76	-40.00	16.76	Horizontal
4	12744.5	30.58	-29.78	39.29	-55.16	-40.00	15.16	Horizontal
5	15586.5	29.89	-27.64	38.99	-54.02	-40.00	14.02	Horizontal
6	17051	30.52	-24.75	39.02	-50.47	-40.00	10.47	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819	38.99	-42.88	30.68	-68.47	-40.00	28.47	Vertical
2	6033.5	36.58	-40.16	34.87	-63.97	-40.00	23.97	Vertical
3	8380	34.09	-35.66	37.29	-59.54	-40.00	19.54	Vertical
4	10280	31.94	-32.18	38.04	-57.46	-40.00	17.46	Vertical
5	13497	30.57	-28.50	39.95	-53.24	-40.00	13.24	Vertical
6	16993.5	29.89	-24.01	38.90	-50.49	-40.00	10.49	Vertical



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**Test Band = SA Band 30 BW 5M\_ TM1**  
**Test Channel = Mid Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4304	39.16	-42.03	31.79	-66.35	-40.00	26.35	Horizontal
2	5696.5	37.67	-40.50	33.77	-64.32	-40.00	24.32	Horizontal
3	6822	36.53	-38.43	35.93	-61.23	-40.00	21.23	Horizontal
4	10188.5	32.29	-32.06	37.99	-57.04	-40.00	17.04	Horizontal
5	12750	31.10	-29.78	39.30	-54.64	-40.00	14.64	Horizontal
6	16998	29.77	-23.97	38.90	-50.56	-40.00	10.56	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4219	38.46	-42.13	31.65	-67.28	-40.00	27.28	Vertical
2	6143.5	37.18	-39.78	35.09	-62.77	-40.00	22.77	Vertical
3	7936	36.11	-36.62	37.04	-58.73	-40.00	18.73	Vertical
4	10279	31.96	-32.18	38.04	-57.44	-40.00	17.44	Vertical
5	12976	31.45	-29.62	39.57	-53.86	-40.00	13.86	Vertical
6	17002.5	30.10	-23.99	38.91	-50.24	-40.00	10.24	Vertical



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**Test Band = SA Band 30 BW 5M\_ TM1**
**Test Channel = High Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3994.5	39.52	-42.75	31.28	-67.21	-40.00	27.21	Horizontal
2	5126	38.51	-41.16	33.17	-64.73	-40.00	24.73	Horizontal
3	7379.5	35.62	-37.78	36.46	-60.97	-40.00	20.97	Horizontal
4	9551.5	34.17	-33.68	37.77	-57.00	-40.00	17.00	Horizontal
5	12413	31.20	-29.53	38.90	-54.69	-40.00	14.69	Horizontal
6	16751.5	30.81	-26.07	38.73	-51.79	-40.00	11.79	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4552	38.89	-41.82	32.21	-65.97	-40.00	25.97	Vertical
2	6226.5	37.11	-39.59	35.25	-62.48	-40.00	22.48	Vertical
3	7927	35.66	-36.63	37.03	-59.20	-40.00	19.20	Vertical
4	10265	31.95	-32.16	38.03	-57.43	-40.00	17.43	Vertical
5	12098	30.65	-29.26	38.52	-55.35	-40.00	15.35	Vertical
6	16373.5	29.79	-26.37	38.46	-53.38	-40.00	13.38	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
N30	15	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	-1.600000	-0.000693	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	-0.600000	-0.000260	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	VL	NT	-3.200000	-0.001385	PASS
N30	15	10	CP-QPSK	M	Outer_Full	VH	NT	-0.400000	-0.000173	PASS
N30	15	10	CP-QPSK	M	Outer_Full	VN	NT	-4.200000	-0.001818	PASS
N30	15	10	CP-QPSK	M	Outer_Full	VL	NT	-5.000000	-0.002165	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
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	-5.000000	-0.002165	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	-1.800000	-0.000779	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	-3.400000	-0.001472	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	0	0.600000	0.000260	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	10	2.600000	0.001126	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	20	-3.700000	-0.001602	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	30	-4.000000	-0.001732	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	40	-2.800000	-0.001212	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	50	-2.400000	-0.001039	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	-30	1.800000	0.000779	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	-20	0.300000	0.000130	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	-10	-0.200000	-0.000087	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	0	0.300000	0.000130	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	10	0.900000	0.000390	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	20	1.300000	0.000563	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	30	2.300000	0.000996	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	40	0.400000	0.000173	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	50	0.600000	0.000260	PASS

---End of Attachment---



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