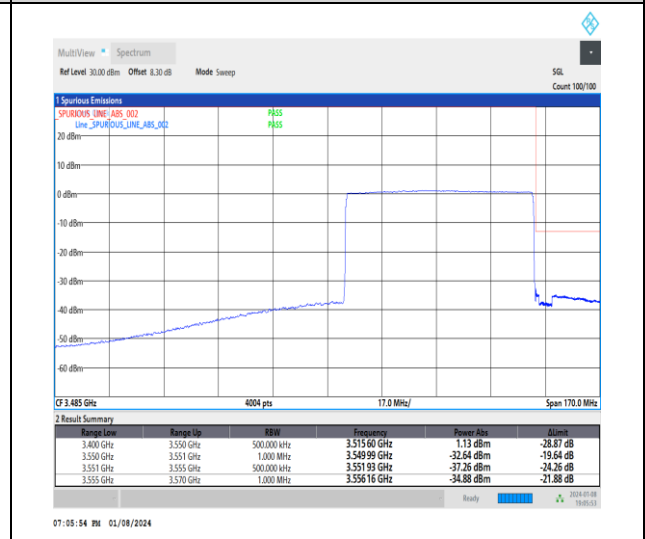
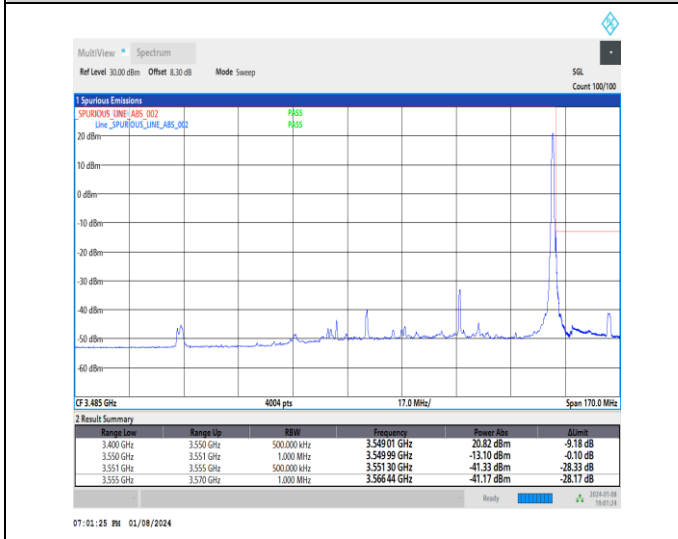


1-N77-3450-3550-30-60-H-2-DFT-PI2BPSK-Edge\_1R\_B\_Right-1@161-Ant4-1--PASS-see graph

1-N77-3450-3550-30-60-H-3-DFT-PI2BPSK-Outer\_Full-162@0-Ant4-1--PASS-see graph



1-N77-3450-3550-30-60-H-5-CP-QPSK-Edge\_1RB\_Right-1@161-Ant4-1--PASS-see graph

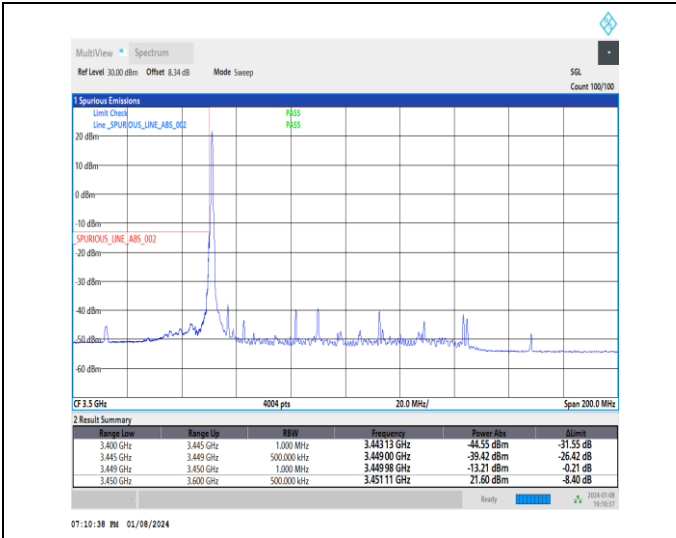
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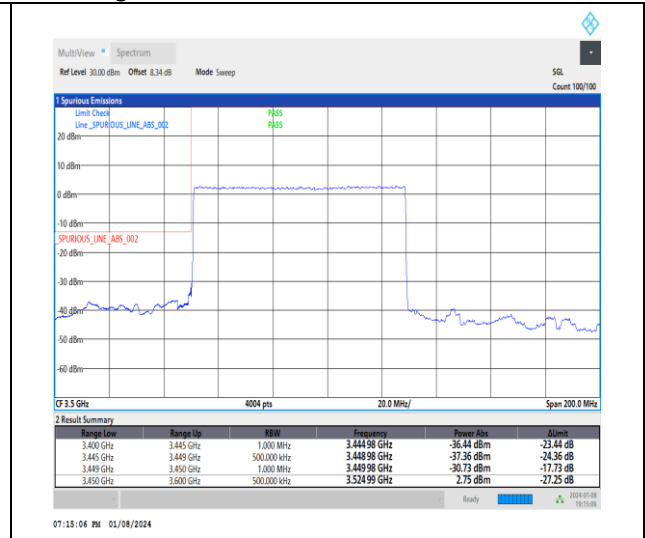
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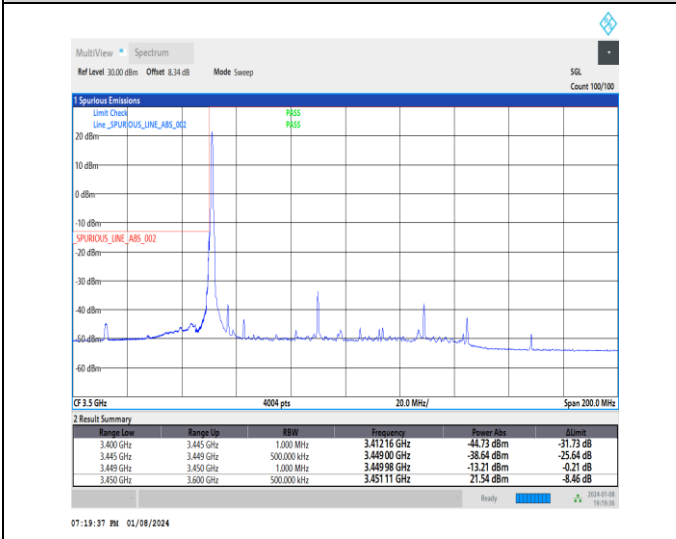
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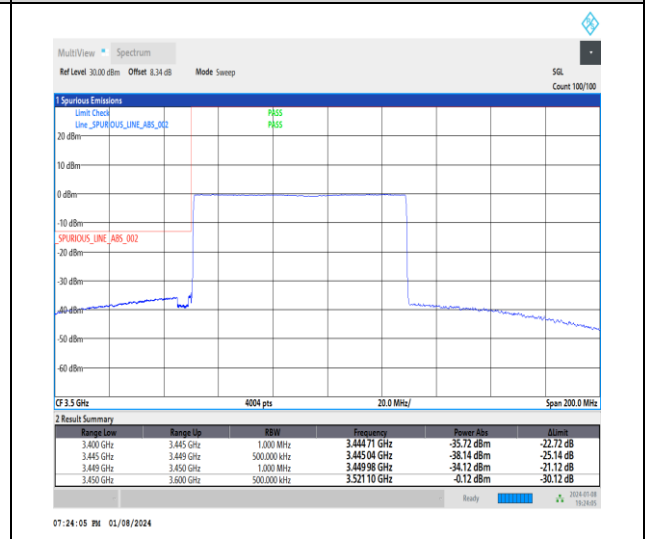
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\_Left-1@0-Ant4-1--PASS-see graph



1-N77-3450-3550-30-80-L-3-DFT-PI2BPSK-Outer  
\_Full-216@0-Ant4-1--PASS-see graph



1-N77-3450-3550-30-80-L-4-CP-QPSK-Edge\_1RB\_Lef  
t-1@0-Ant4-1--PASS-see graph



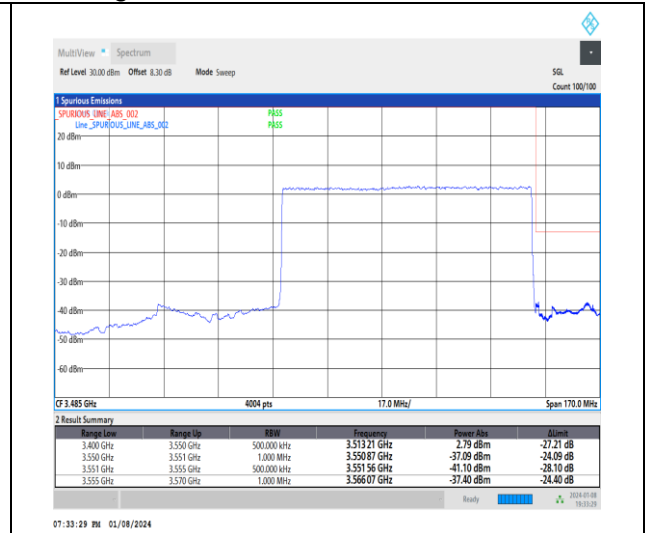
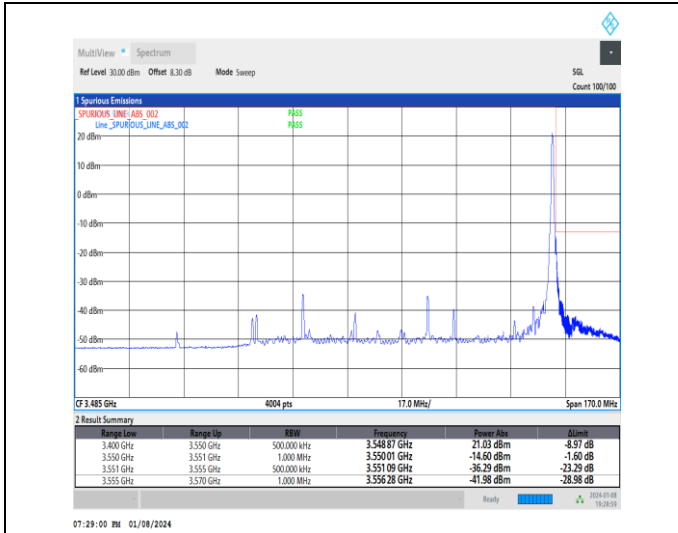
1-N77-3450-3550-30-80-L-6-CP-QPSK-Outer\_Full  
-217@0-Ant4-1--PASS-see graph



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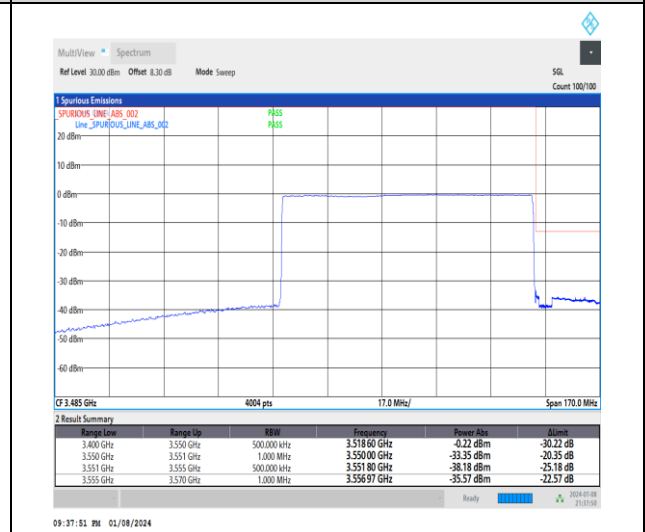
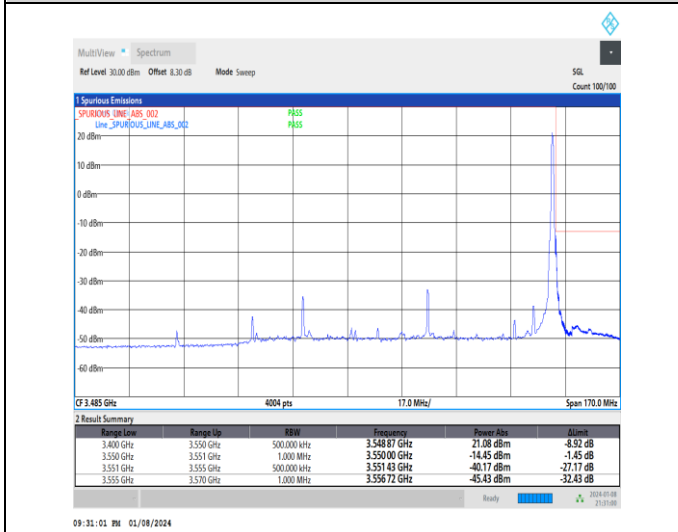
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1-N77-3450-3550-30-80-H-2-DFT-PI2BPSK-Edge\_1R\_B\_Right-1@216-Ant4-1--PASS-see graph

1-N77-3450-3550-30-80-H-3-DFT-PI2BPSK-Outer\_Full-216@0-Ant4-1--PASS-see graph



1-N77-3450-3550-30-80-H-5-CP-QPSK-Edge\_1RB\_Right-1@216-Ant4-1--PASS-see graph

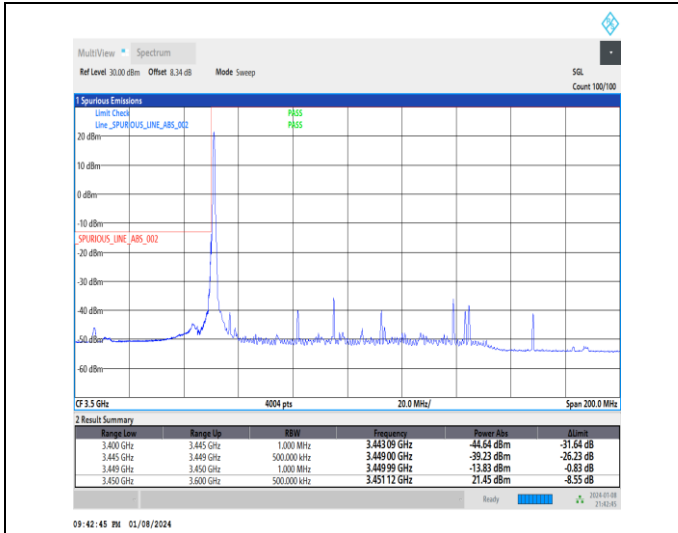
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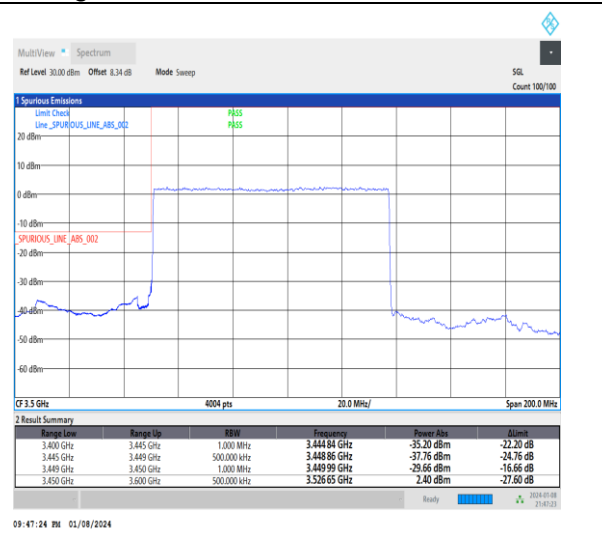
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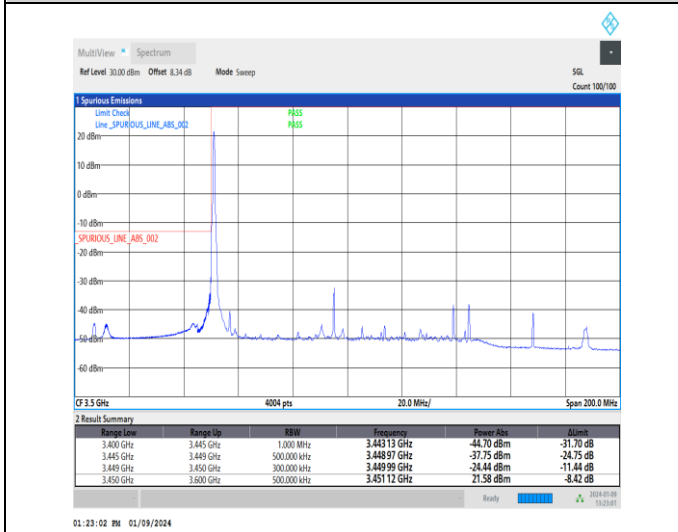
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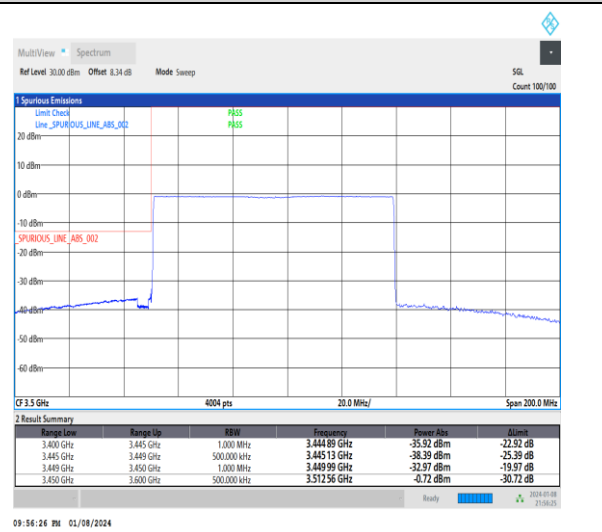
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\_Left-1@0-Ant4-1--PASS-see graph



1-N77-3450-3550-30-90-L-3-DFT-PI2BPSK-Outer  
\_Full-240@0-Ant4-1--PASS-see graph



1-N77-3450-3550-30-90-L-4-CP-QPSK-Edge\_1RB\_Lef  
t-1@0-Ant4-1--PASS-see graph



1-N77-3450-3550-30-90-L-6-CP-QPSK-Outer\_Full  
-245@0-Ant4-1--PASS-see graph

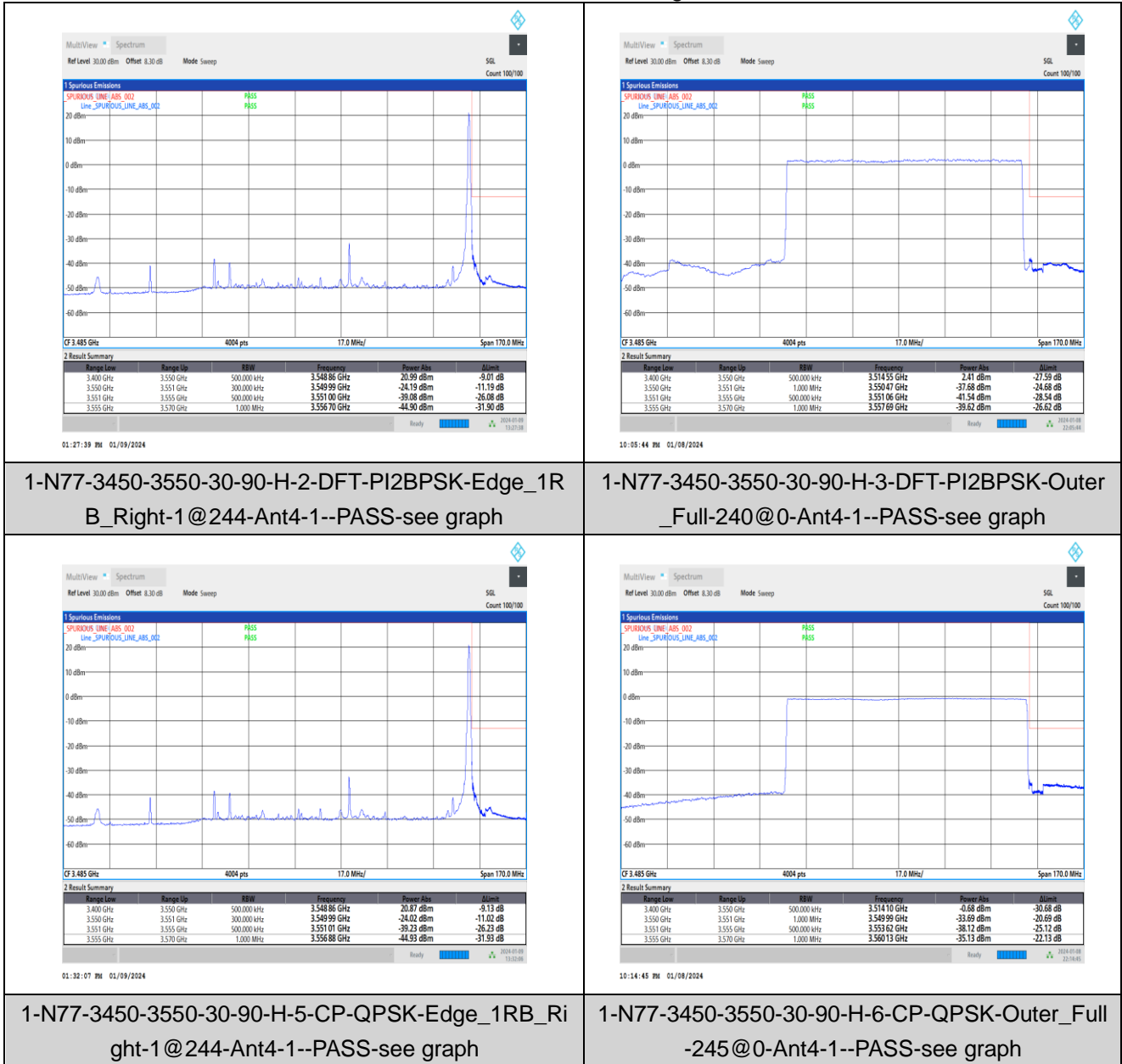


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1-N77-3450-3550-30-90-H-2-DFT-PI2BPSK-Edge\_1R  
B\_Right-1@244-Ant4-1--PASS-see graph

1-N77-3450-3550-30-90-H-3-DFT-PI2BPSK-Outer  
\_Full-240@0-Ant4-1--PASS-see graph

1-N77-3450-3550-30-90-H-5-CP-QPSK-Edge\_1RB\_Ri  
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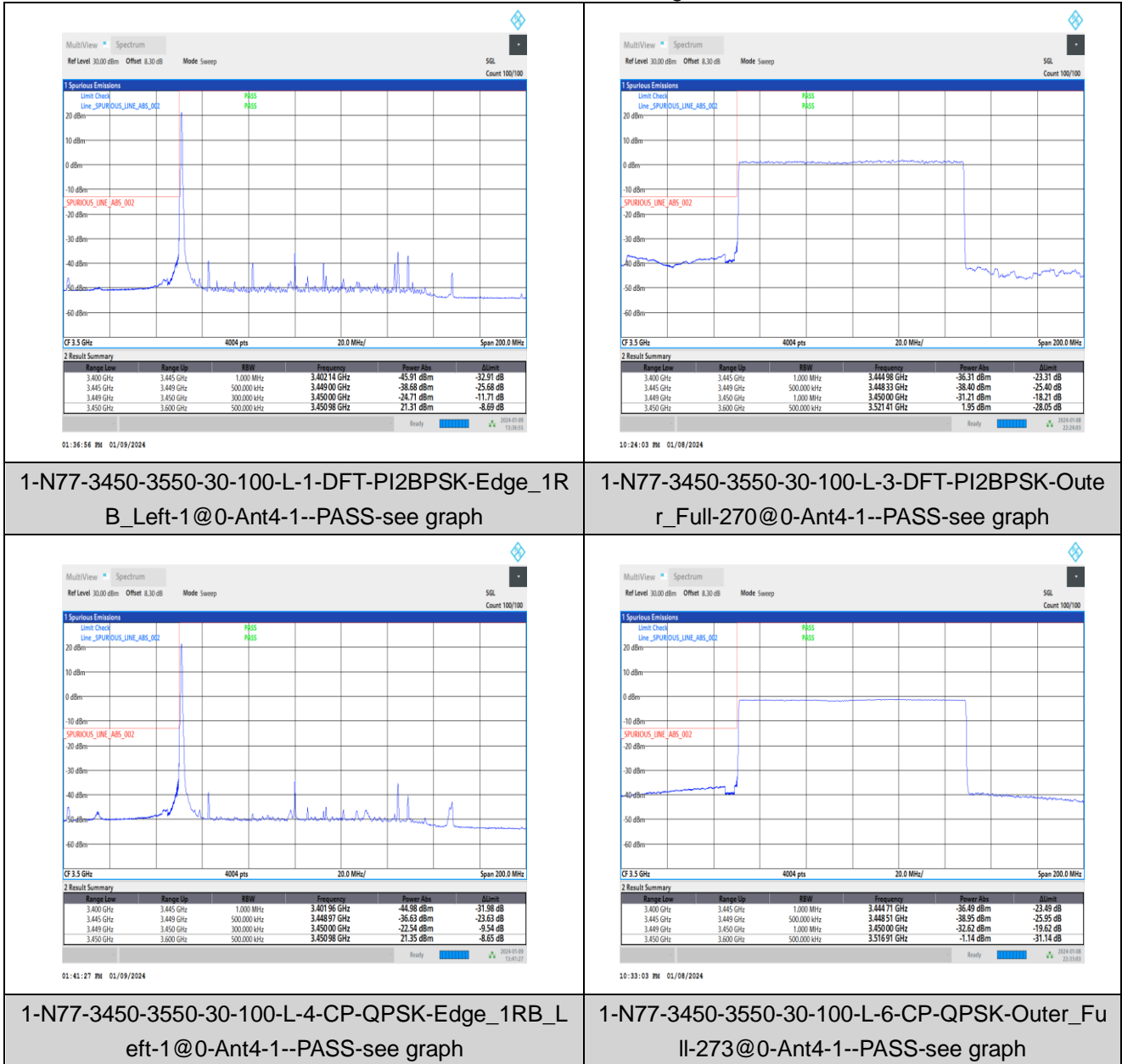
1-N77-3450-3550-30-90-H-6-CP-QPSK-Outer\_Full  
-245@0-Ant4-1--PASS-see graph



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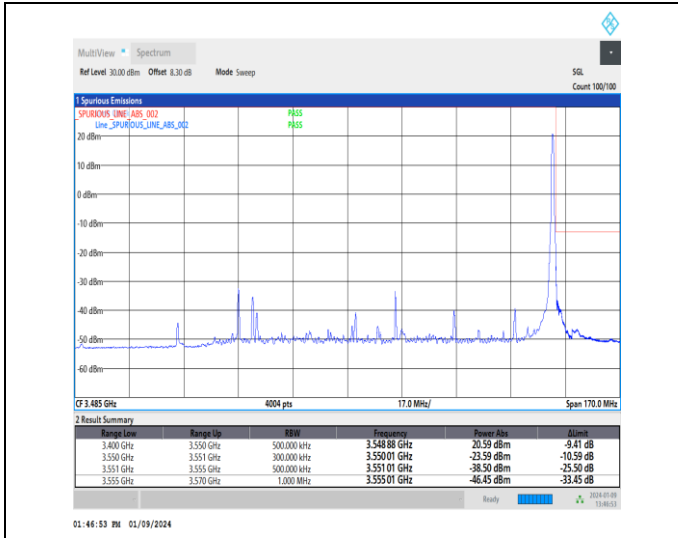
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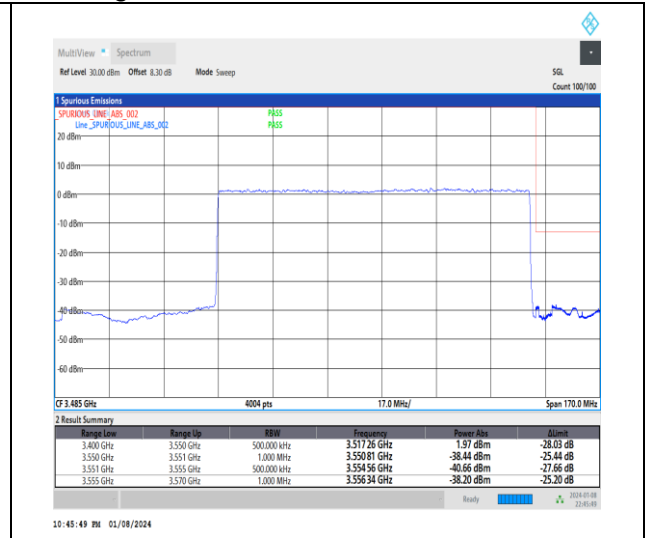
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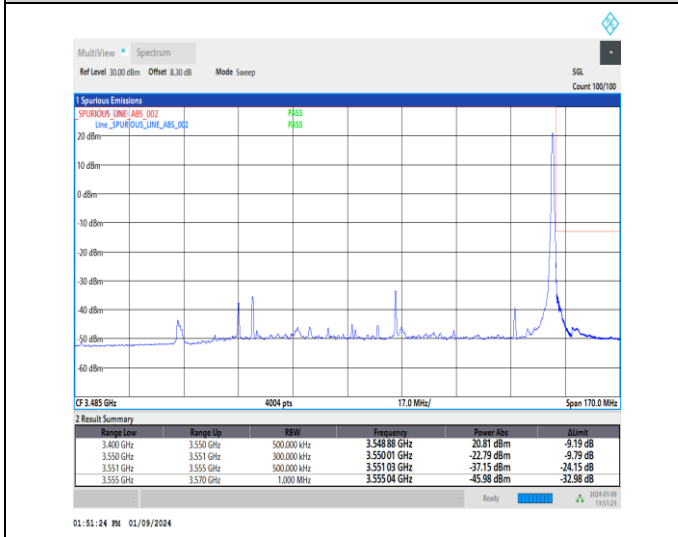
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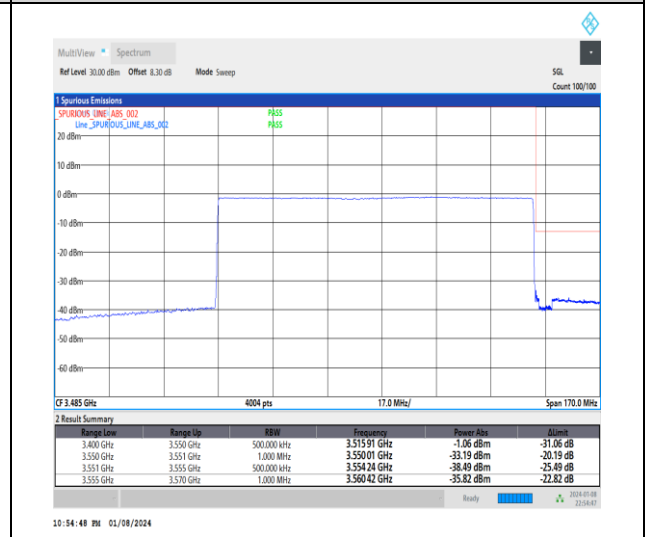
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1-N77-3450-3550-30-100-H-3-DFT-PI2BPSK-Outer\_Full-270@0-Ant4-1--PASS-see graph



1-N77-3450-3550-30-100-H-5-CP-QPSK-Edge\_1RB\_Right-1@272-Ant4-1--PASS-see graph



1-N77-3450-3550-30-100-H-6-CP-QPSK-Outer\_Full-273@0-Ant4-1--PASS-see graph



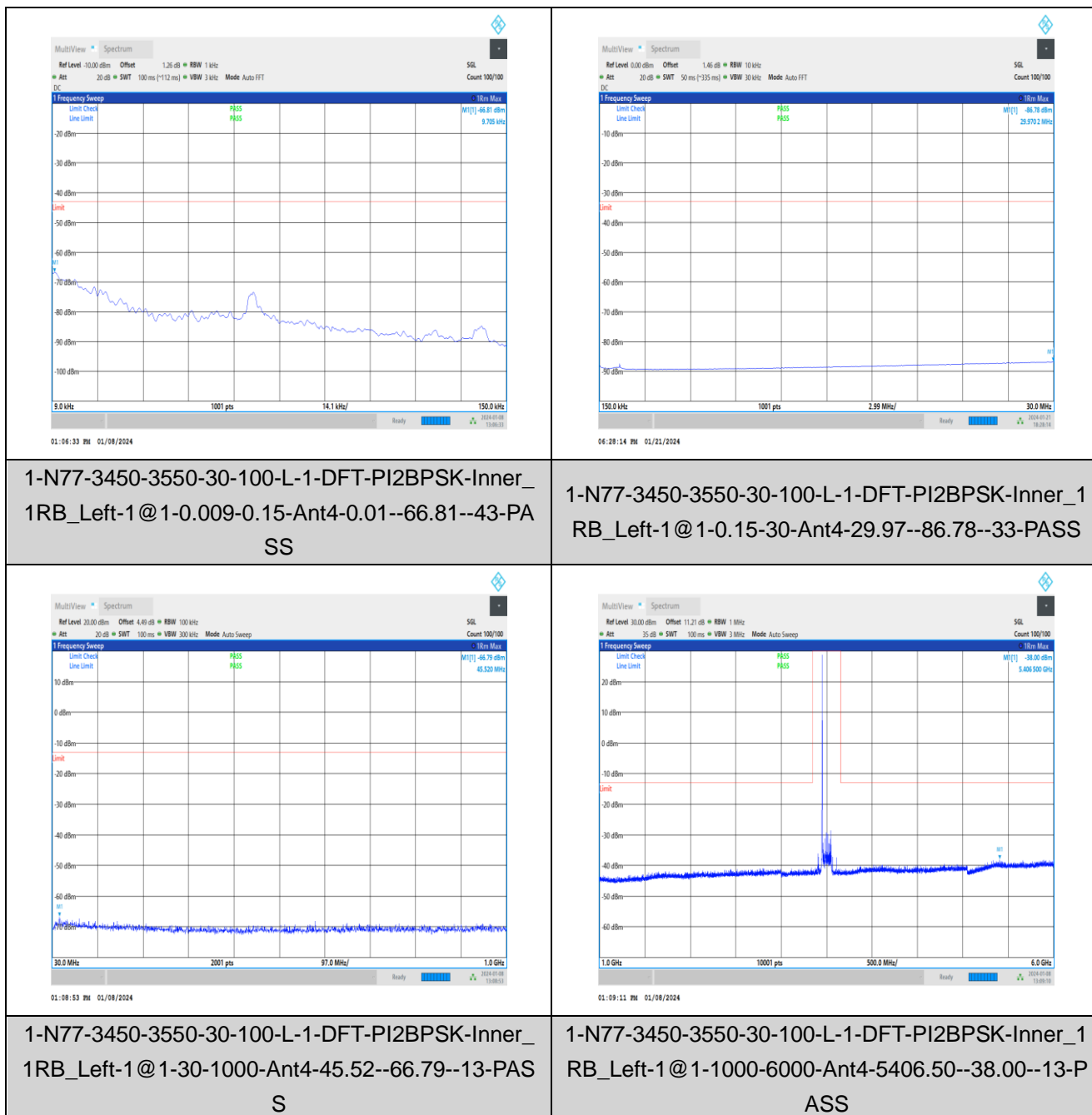
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## Conducted Spurious Emission for SA

### Test Graphs

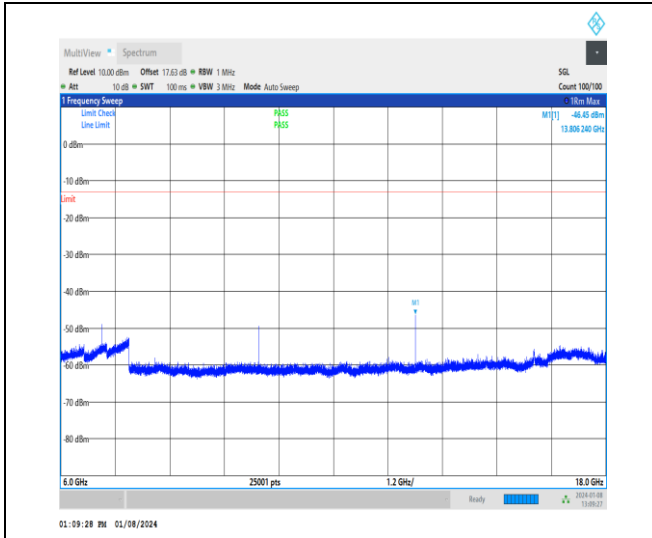


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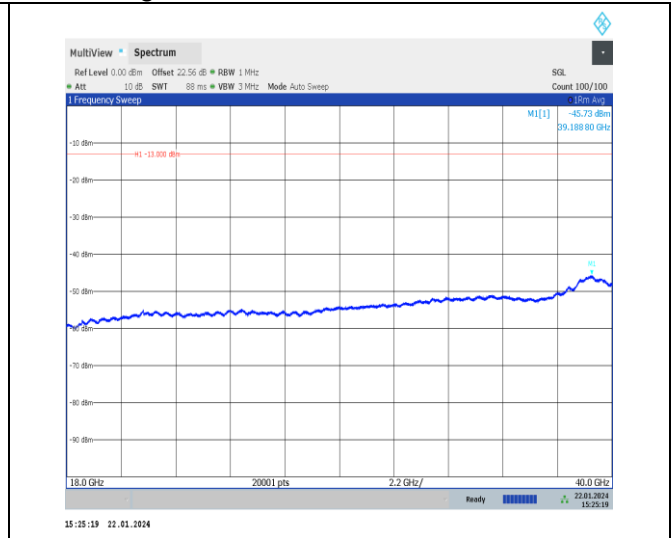
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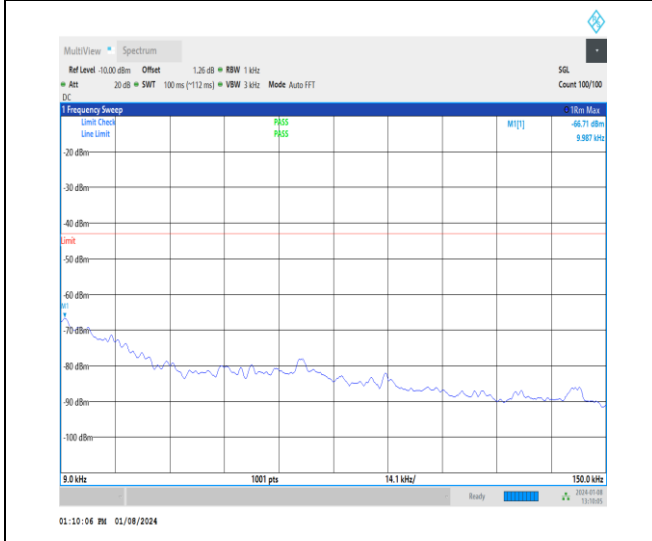




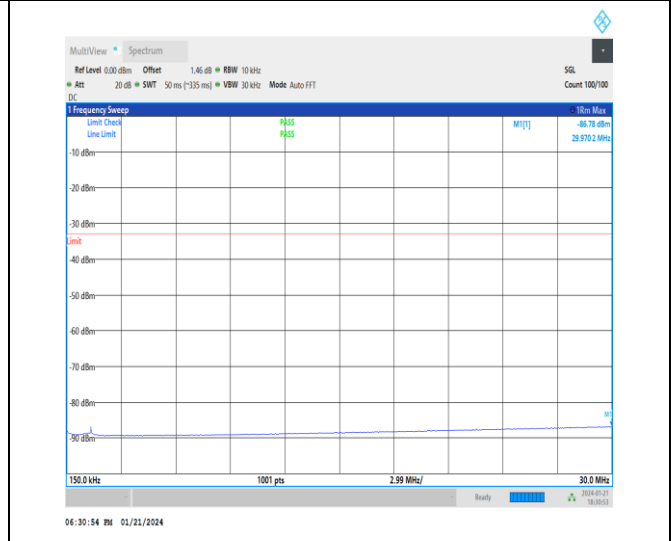
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1-N77-3450-3550-30-100-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant4-18000.00--45.73--13-PASS



1-N77-3450-3550-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.15-Ant4-0.01--66.71--43-PASS



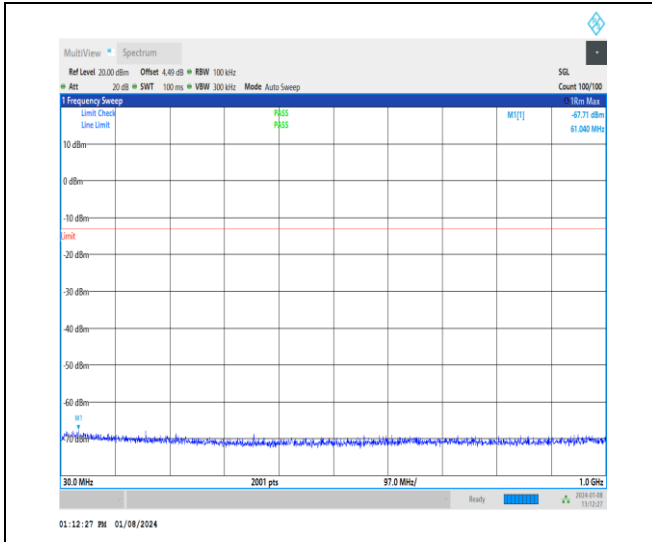
1-N77-3450-3550-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant4-29.97--86.78--33-PASS



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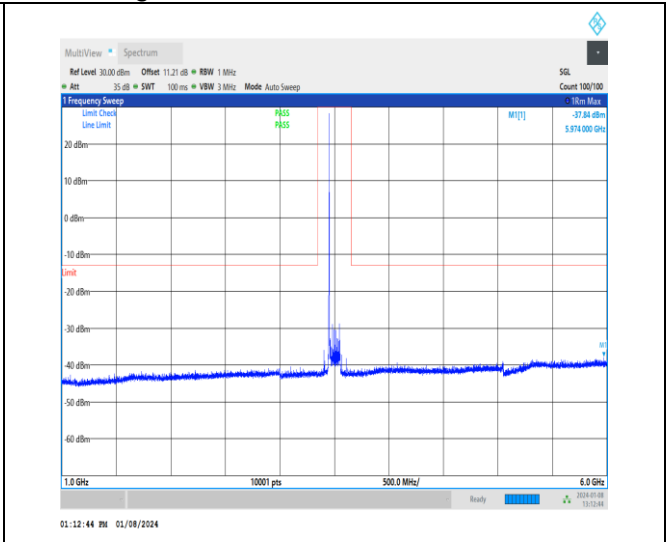
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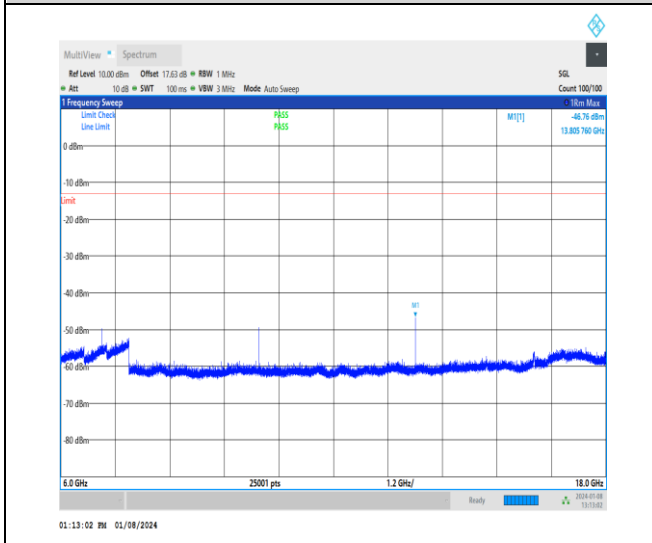
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S



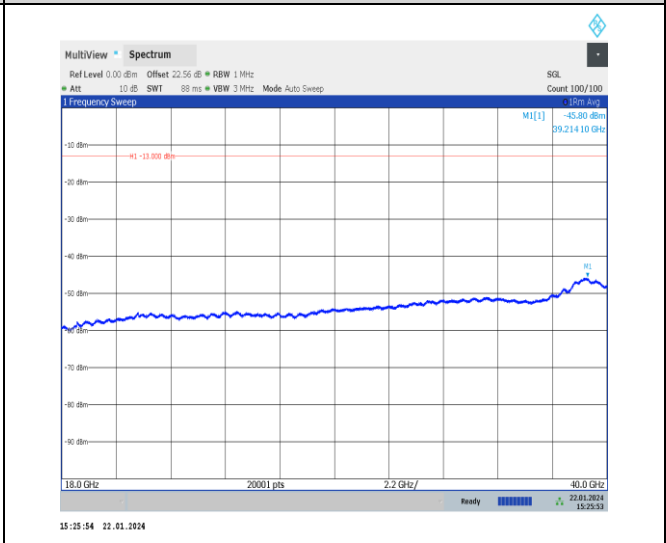
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PASS



1-N77-3450-3550-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-6000-18000-Ant4-13805.76--46.76--13-PASS

13-PASS



1-N77-3450-3550-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant4-18000.00--45.80--13-PASS

13-PASS

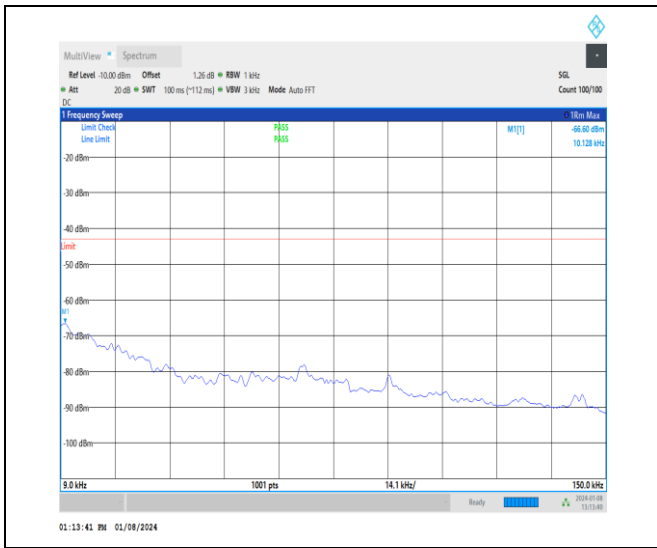


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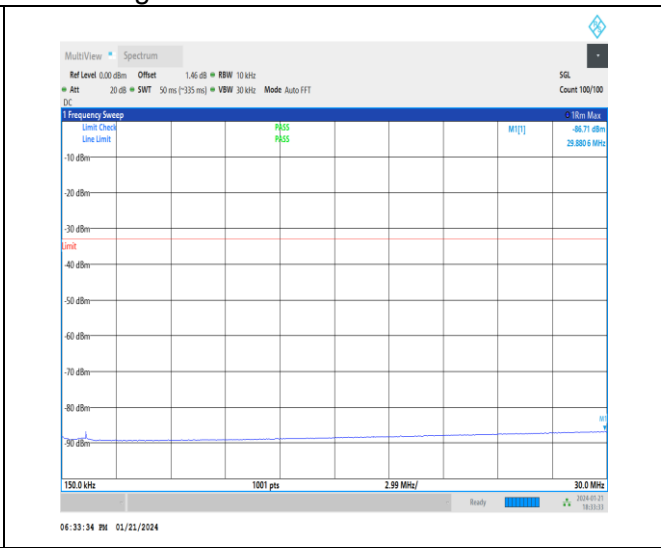
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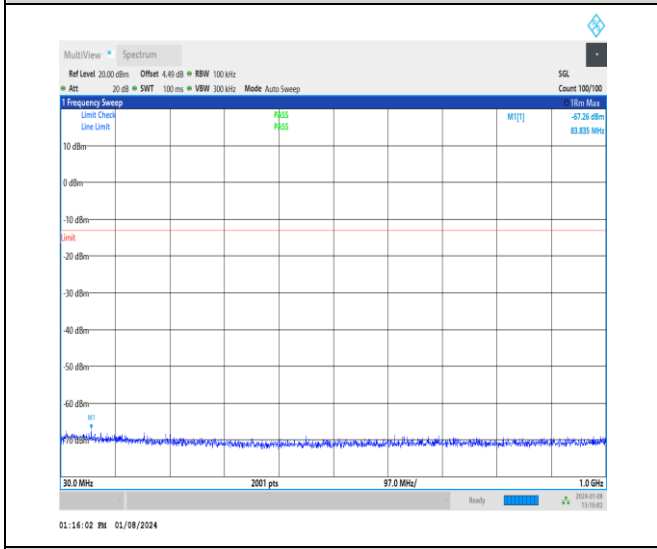
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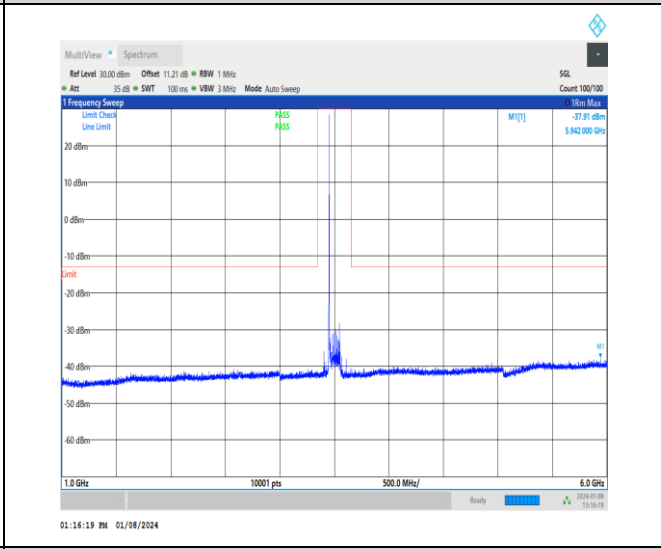
1-N77-3450-3550-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.15-Ant4-0.01--66.60--43-PA SS



1-N77-3450-3550-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant4-29.88--86.71--33-PASS



1-N77-3450-3550-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-30-1000-Ant4-83.84--67.26--13-PASS



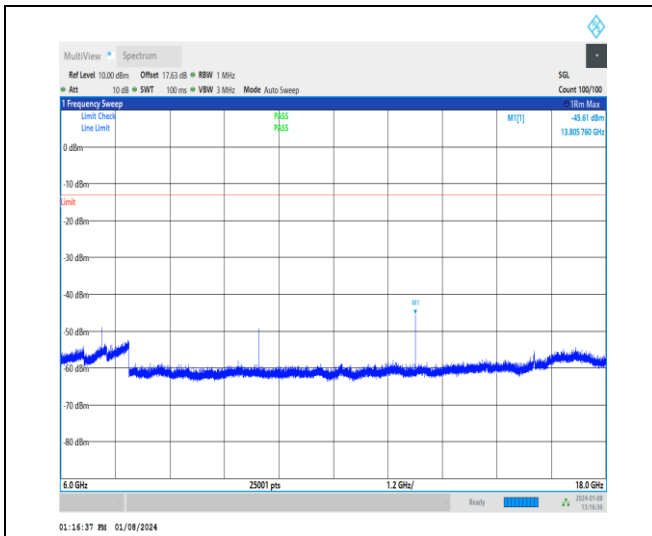
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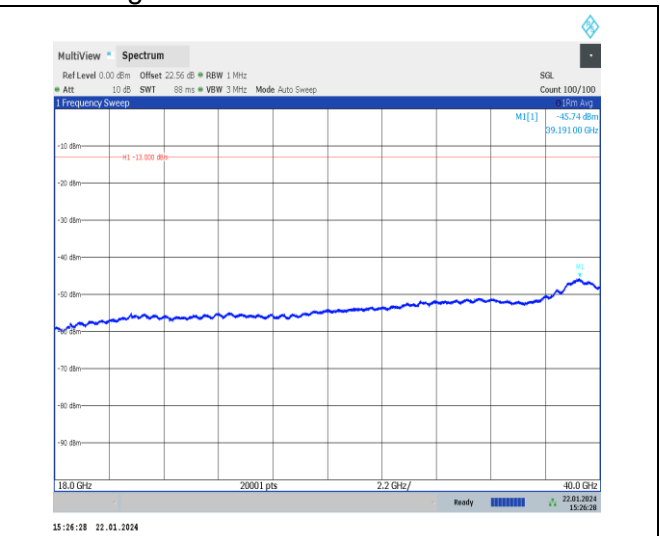
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1-N77-3450-3550-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-6000-18000-Ant4-13805.76--45.61--13-PASS



1-N77-3450-3550-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant4-18000.00--45.74--13-PASS



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## Field Strength of Spurious Radiation

Test Band = SA Band77\_TM1

Test Channel = Mid 3450-3550

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7330.3	39.21	-43.17	36.12	-63.09	-13.00	50.09	Horizontal
2	7679.325	39.41	-42.91	36.67	-62.08	-13.00	49.08	Horizontal
3	10951.65	29.55	-37.70	38.68	-64.73	-13.00	51.73	Horizontal
4	12327.05	28.23	-36.73	38.90	-64.87	-13.00	51.87	Horizontal
5	13807.1	28.12	-36.20	40.55	-62.79	-13.00	49.79	Horizontal
6	14771.95	25.69	-34.93	41.21	-63.29	-13.00	50.29	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7202.075	50.39	-43.60	35.77	-52.71	-13.00	39.71	Vertical
2	8649.925	36.98	-41.11	36.48	-62.92	-13.00	49.92	Vertical
3	10630.8	31.11	-37.85	38.52	-63.48	-13.00	50.48	Vertical
4	12231.025	28.53	-36.96	38.87	-64.82	-13.00	51.82	Vertical
5	13678.875	27.50	-36.00	40.32	-63.44	-13.00	50.44	Vertical
6	14606.925	27.09	-35.31	41.14	-62.34	-13.00	49.34	Vertical



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**Test Band = NSA 2A\_N77A\_TM1**  
**Test Channel = Mid 3450-3550**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7202.075	48.75	-43.60	35.77	-54.35	-13.00	41.35	Horizontal
2	9596.375	34.72	-39.23	37.43	-62.33	-13.00	49.33	Horizontal
3	10802.725	34.56	-38.45	38.60	-60.55	-13.00	47.55	Horizontal
4	11815.3	27.13	-37.22	38.78	-66.57	-13.00	53.57	Horizontal
5	13301.675	26.69	-37.00	39.64	-65.93	-13.00	52.93	Horizontal
6	14498.825	26.10	-34.24	41.10	-62.30	-13.00	49.30	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7202.075	50.81	-43.60	35.77	-52.29	-13.00	39.29	Vertical
2	9645.825	34.81	-39.33	37.53	-62.25	-13.00	49.25	Vertical
3	10802.725	33.61	-38.45	38.60	-61.50	-13.00	48.50	Vertical
4	12151.1	27.78	-37.15	38.85	-65.78	-13.00	52.78	Vertical
5	13460.95	27.05	-36.42	39.93	-64.70	-13.00	51.70	Vertical
6	15406.75	25.72	-34.13	40.45	-63.23	-13.00	50.23	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

Voltage										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-3.400000	-0.000971	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-1.600000	-0.000457	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-4.300000	-0.001229	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	VH	NT	-7.500000	-0.002143	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	VN	NT	-9.100000	-0.002600	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	VL	NT	-4.400000	-0.001257	PASS



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t (86-512) 62992980 sgs.china@sgs.com

Frequency Error VS. Temperature

Temperature										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-5.200000	-0.001486	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-4.800000	-0.001371	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-6.200000	-0.001771	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-6.700000	-0.001914	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-3.700000	-0.001057	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-5.200000	-0.001486	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-5.100000	-0.001457	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-2.700000	-0.000771	PASS
N77-3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-6.000000	-0.001714	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-30	-6.000000	-0.001714	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-20	-5.800000	-0.001657	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-10	-4.000000	-0.001143	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	0	-6.400000	-0.001829	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	10	-4.900000	-0.001400	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	20	-3.600000	-0.001029	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	30	-3.700000	-0.001057	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	40	-8.500000	-0.002429	PASS
N77-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	50	-5.700000	-0.001629	PASS

---End of Attachment---



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