

Appendix for KSCR2211002212AT-LTE-Band12+NR-N12

1. Out of band rejection

1.1 Band12

1.1.1 Test Result

Band: 12 / NTNV							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	695 - 780	SISO	1	733.420	728.660	746.595	Pass

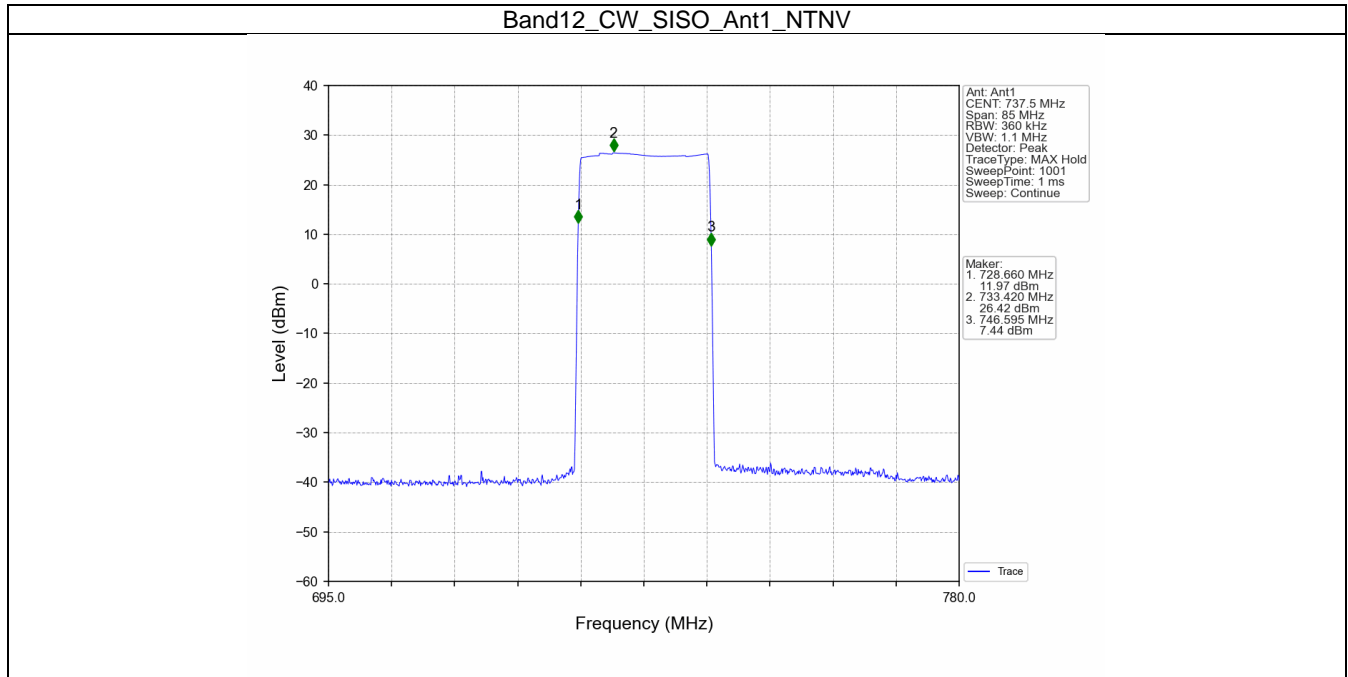


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1.1.2 Test Graph



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2. AGC threshold

2.1 Band12

2.1.1 Test Result

Band: 12 / NTNV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
AWGN	733.42	SISO	1	0.30	Pass
GMSK	733.42	SISO	1	0.30	Pass



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3. Input-versus-output signal comparison

3.1 Band12_OBW

3.1.1 Test Result

Band: 12 / NTV							
Type	Signal		TX Type	ANT	99% OBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	0.3	733.42	SISO	1	4.539	4.540	Pass
	3.3	733.42	SISO	1	4.534	4.534	Pass
GMSK	0.3	733.42	SISO	1	0.245	0.245	Pass
	3.3	733.42	SISO	1	0.245	0.245	Pass

For 5GNR N12

N12 / NTV							
Type	Signal		TX Type	ANT	99% OBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	0.3	737.5	SISO	1	13.988	14.055	Pass
	3.3	737.5	SISO	1	13.980	14.062	Pass

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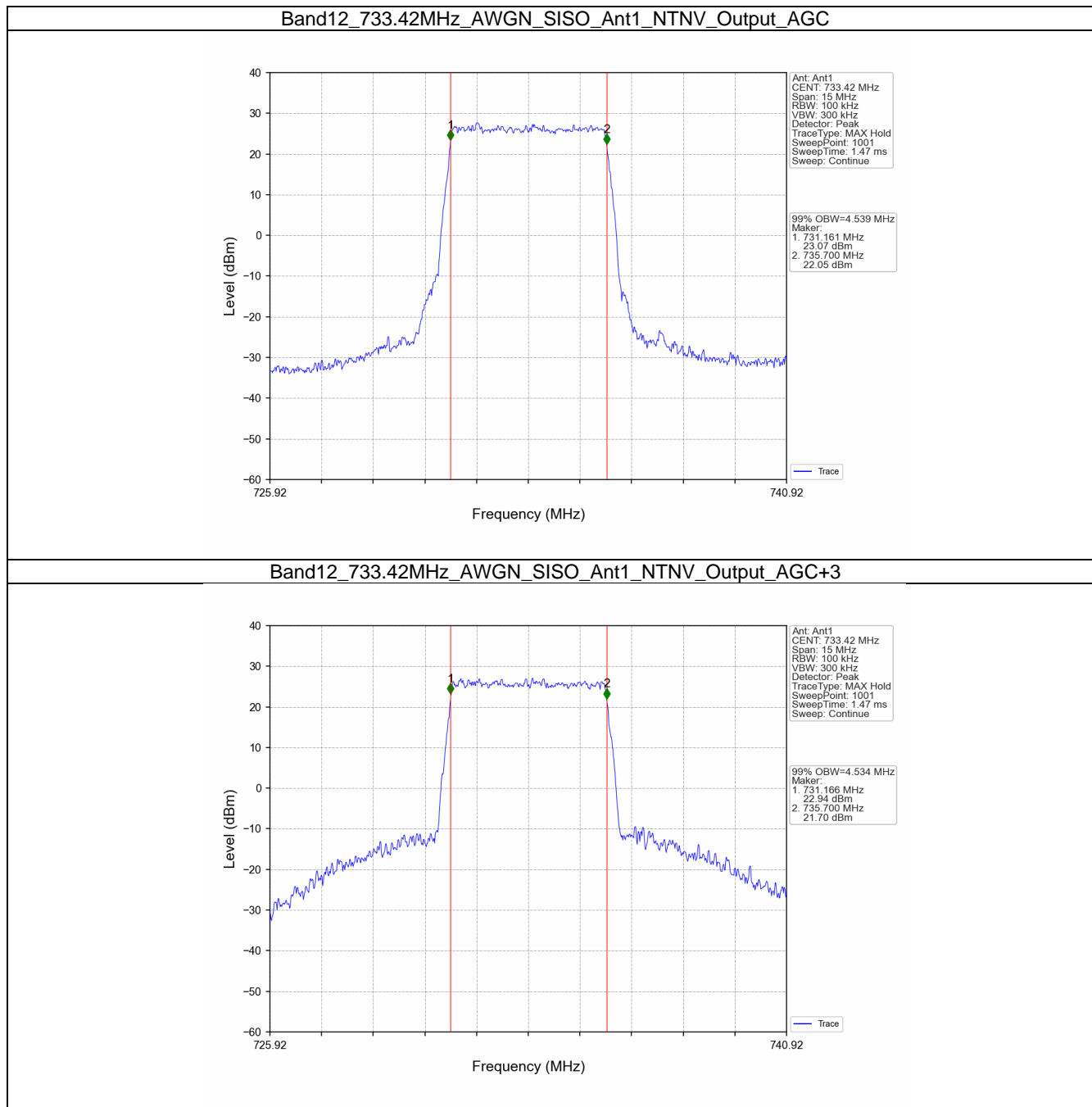
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3.1.2 Test Graph

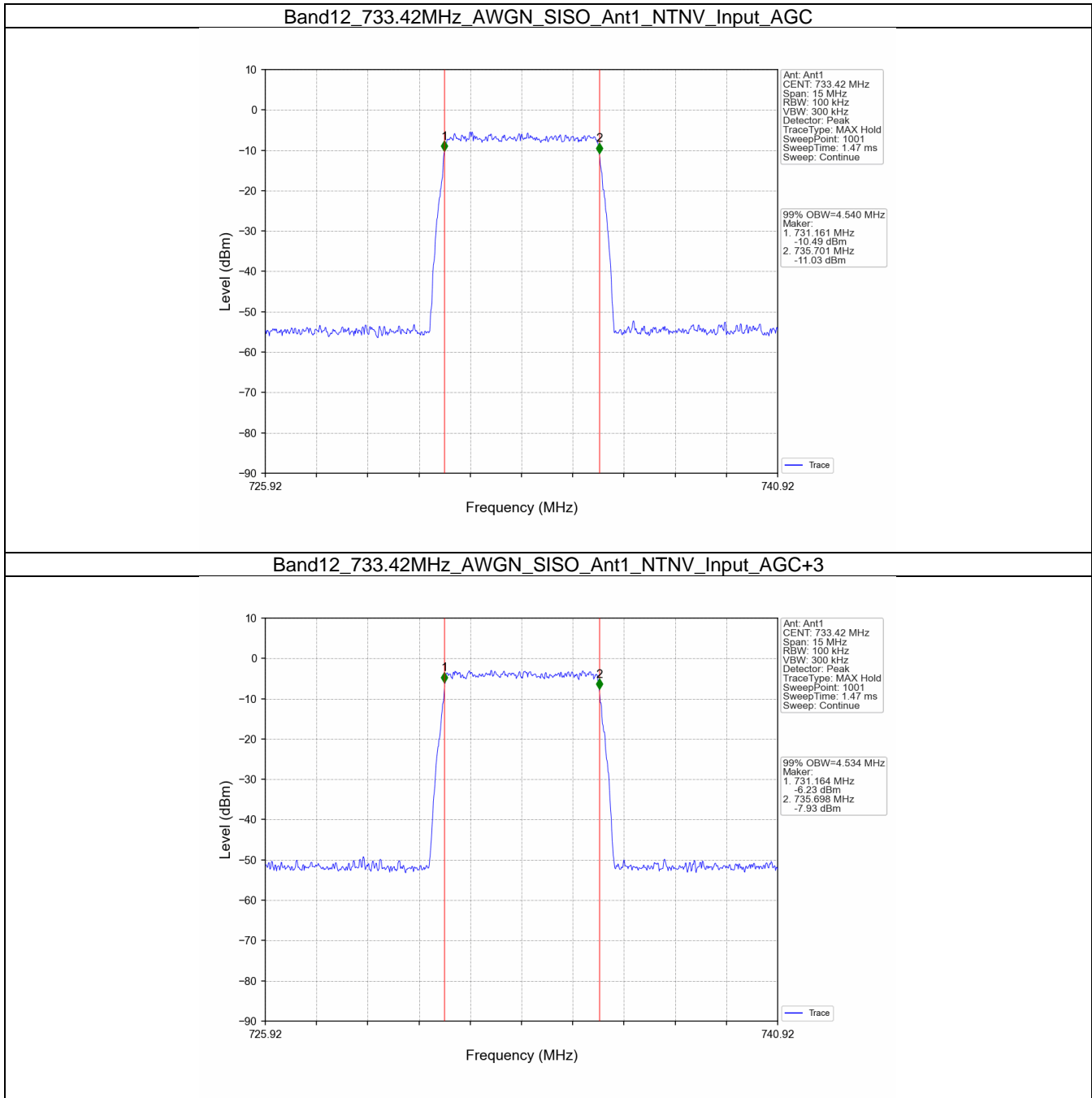
For LTE Band 12



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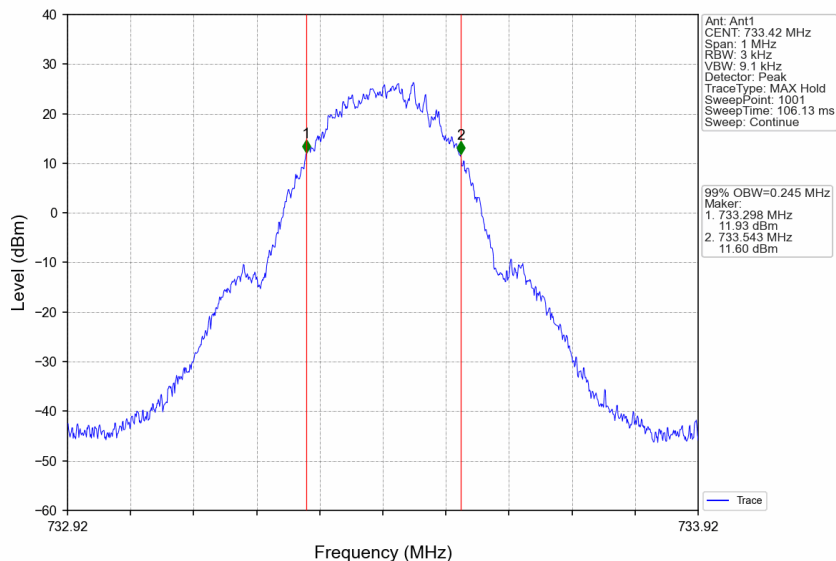
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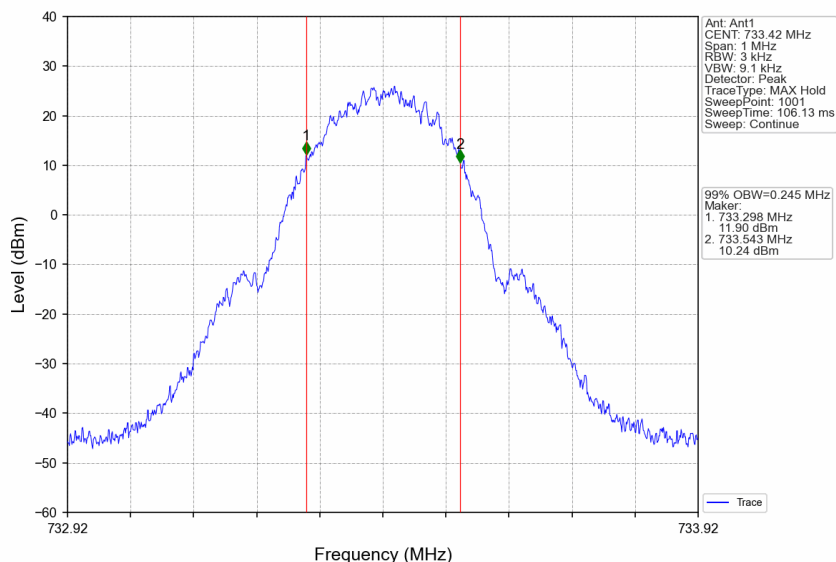
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Band12_733.42MHz_GMSK_SISO_Ant1_NTNV_Output_AGC



Band12_733.42MHz_GMSK_SISO_Ant1_NTNV_Output_AGC+3



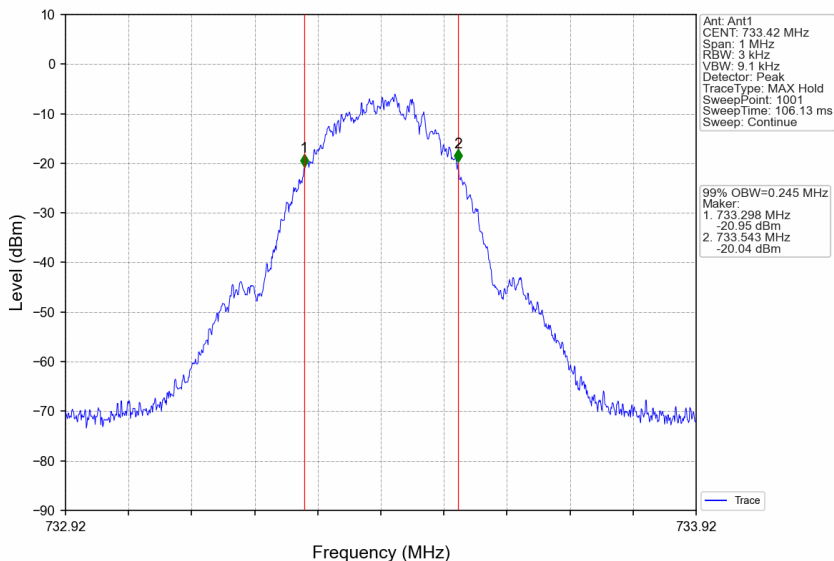
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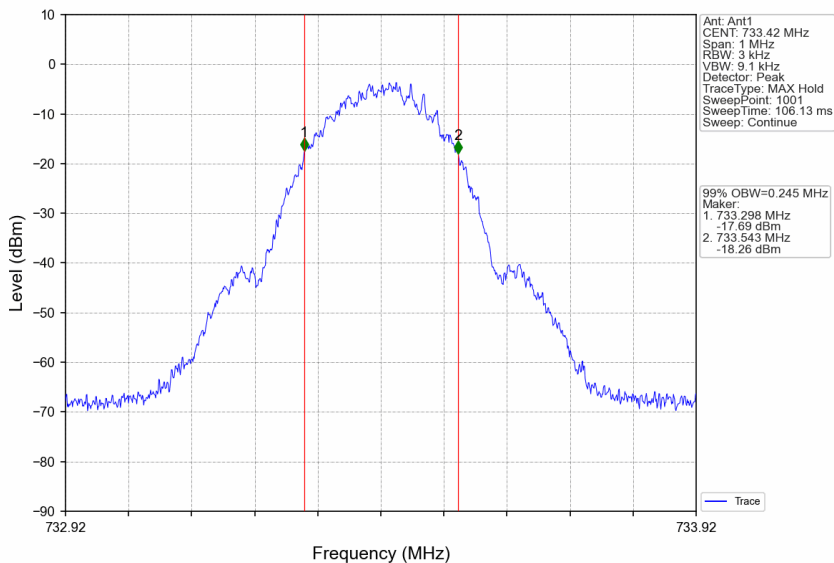
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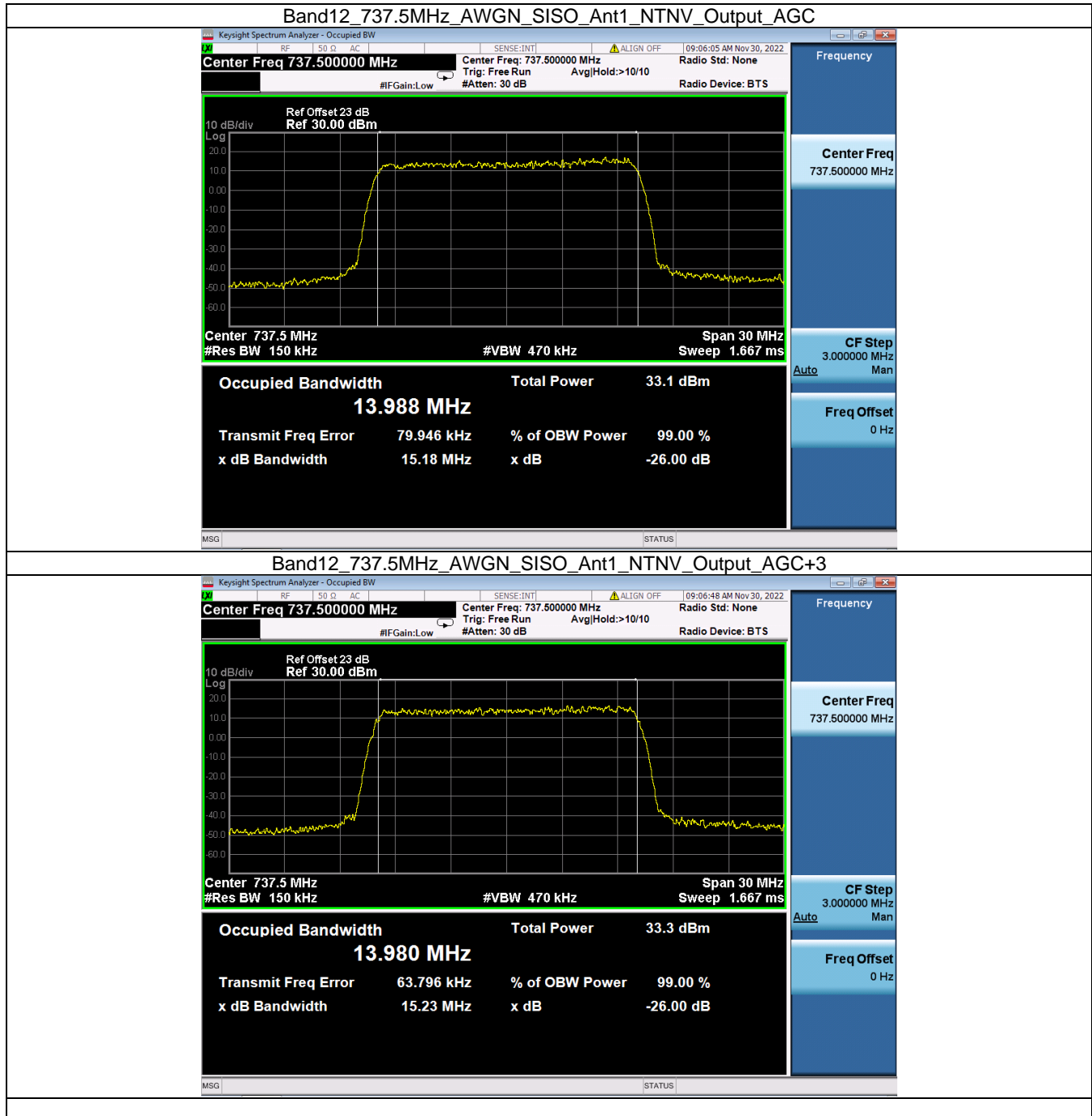
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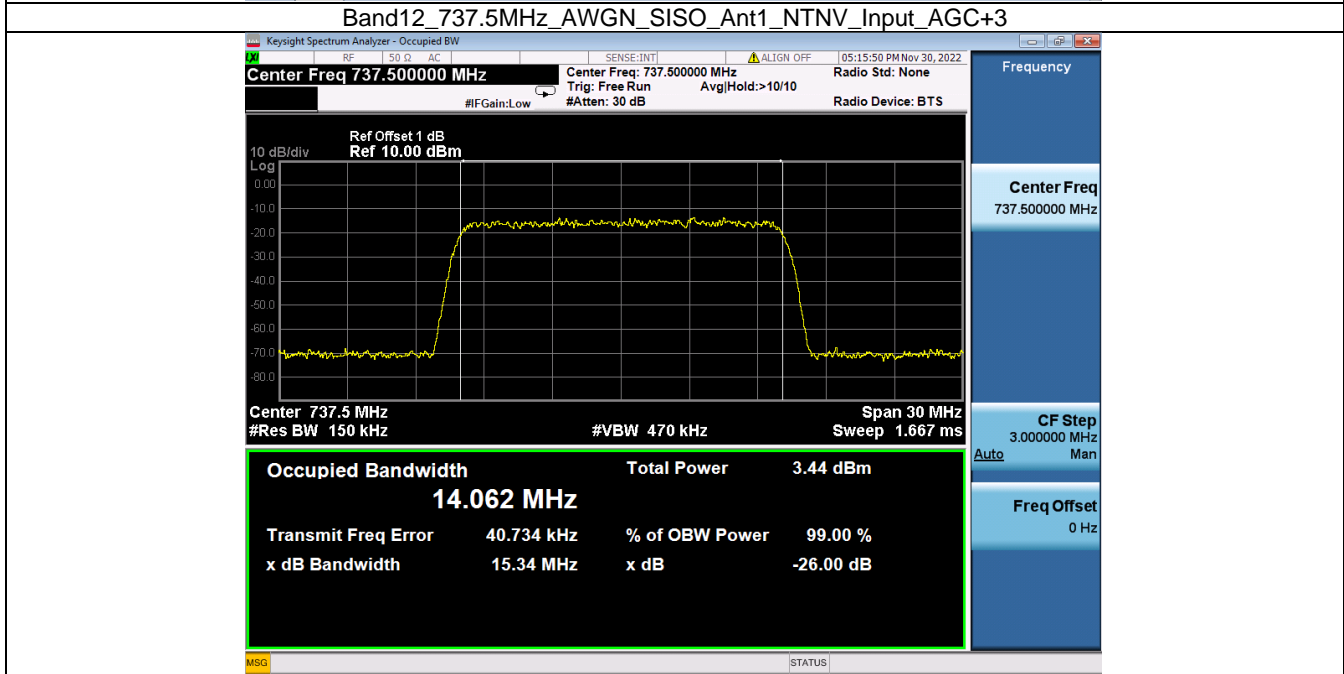
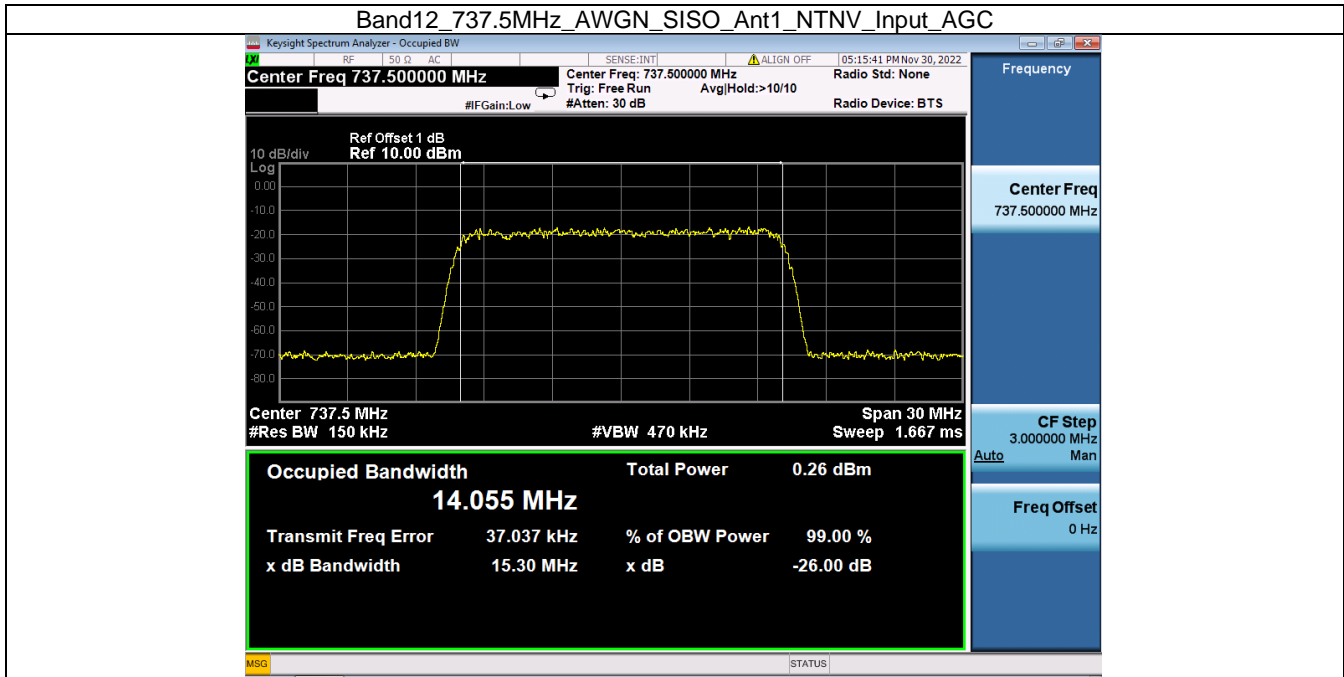


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3.2 Band12_EBW

3.2.1 Test Result

For LTE Band 12

Band: 12 / NTNV							
Type	Signal		TX Type	ANT	26dB EBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	0.3	733.42	SISO	1	5.056	5.062	Pass
	3.3	733.42	SISO	1	5.065	5.064	Pass
GMSK	0.3	733.42	SISO	1	0.315	0.312	Pass
	3.3	733.42	SISO	1	0.312	0.316	Pass

For 5G NR N12

N12 / NTNV							
Type	Signal		TX Type	ANT	26dB EBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	0.3	737.5	SISO	1	15.180	15.300	Pass
	3.3	737.5	SISO	1	15.230	15.340	Pass



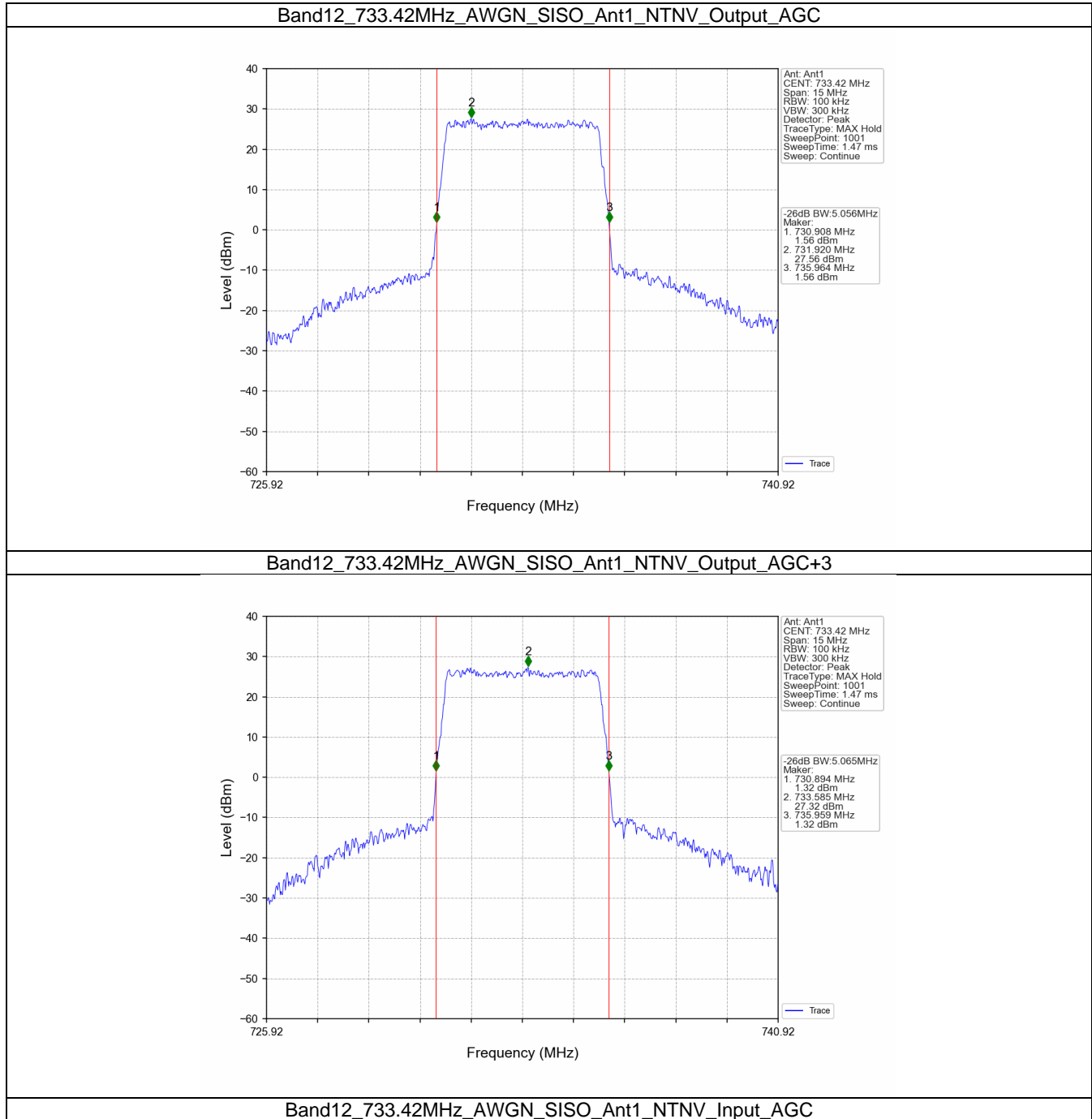
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3.2.2 Test Graph

For LTE Band 12



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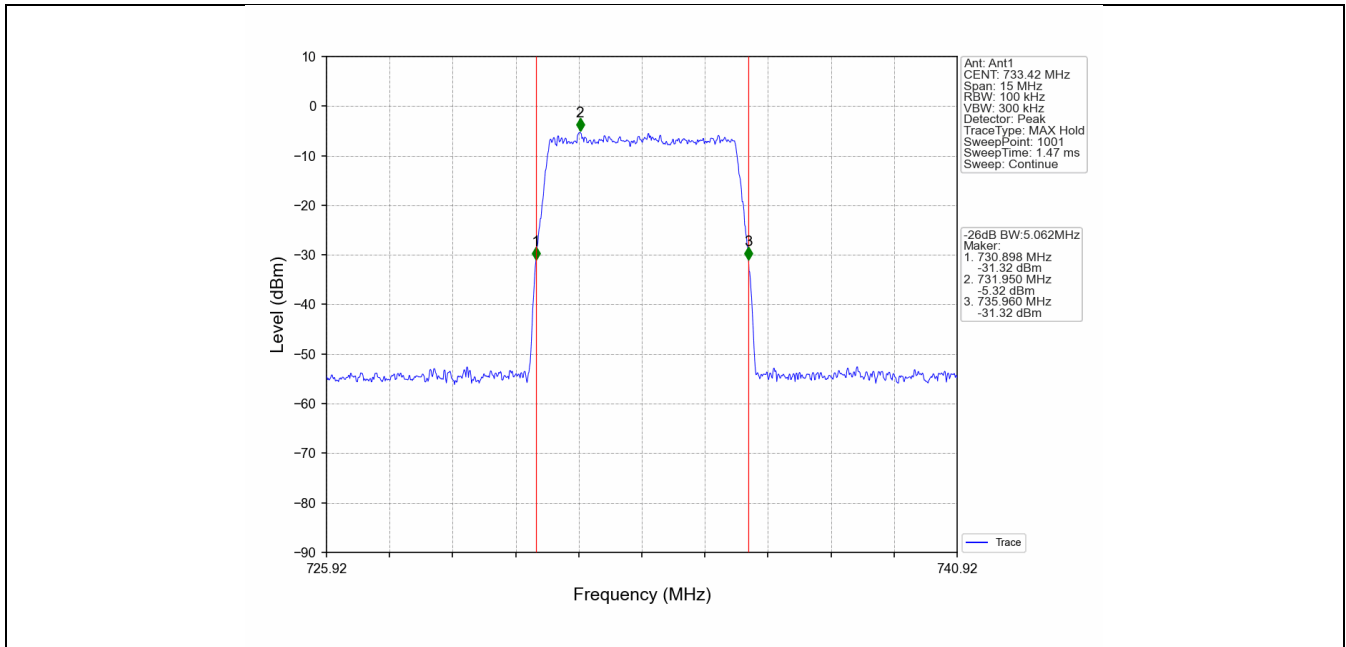
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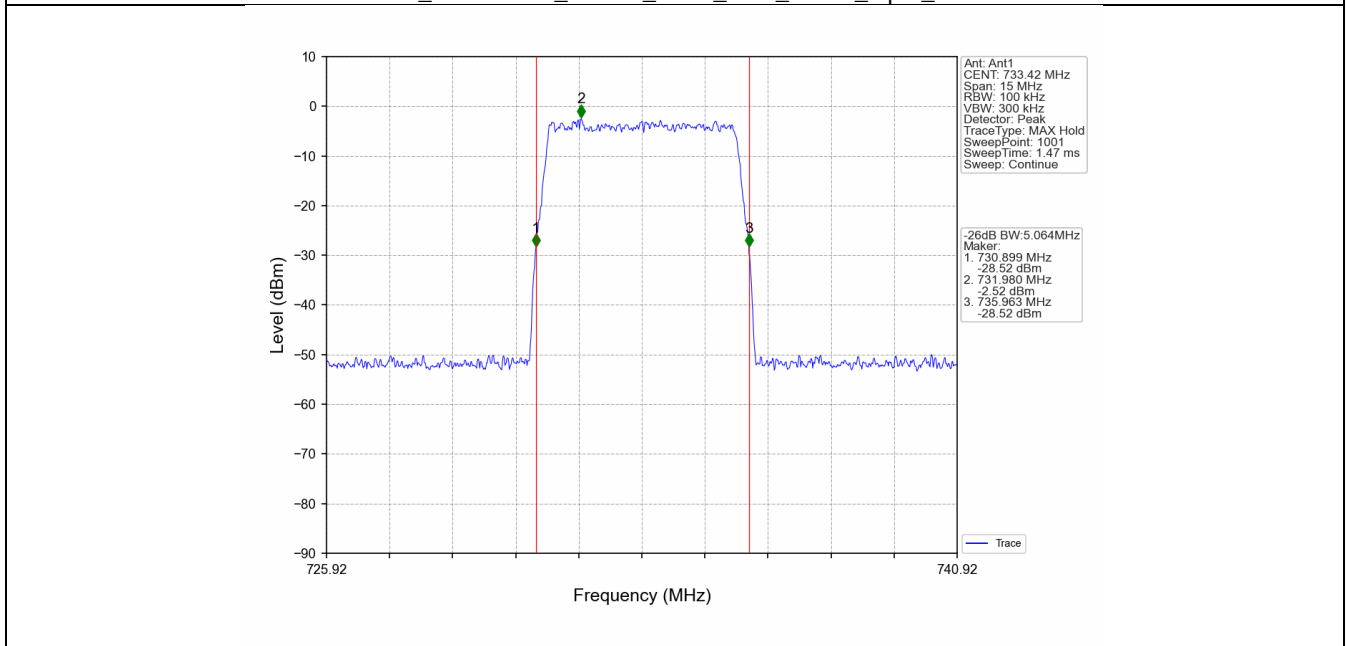
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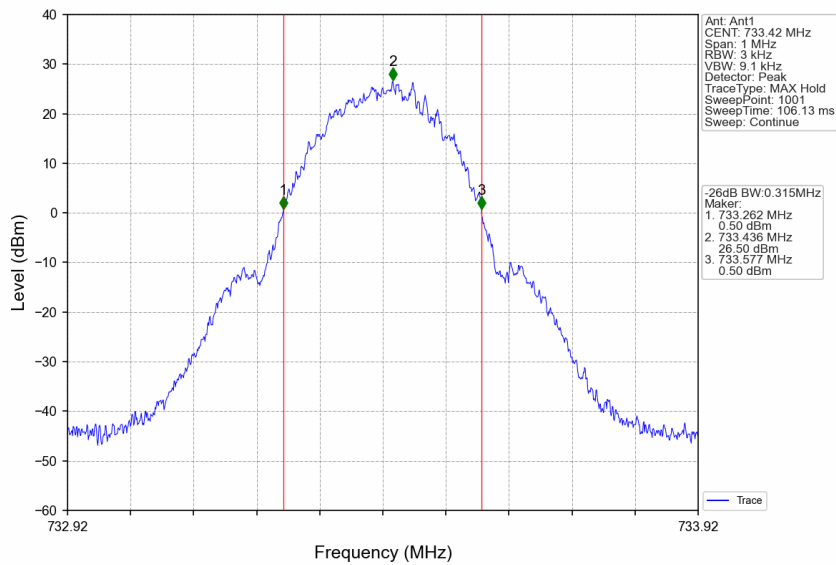
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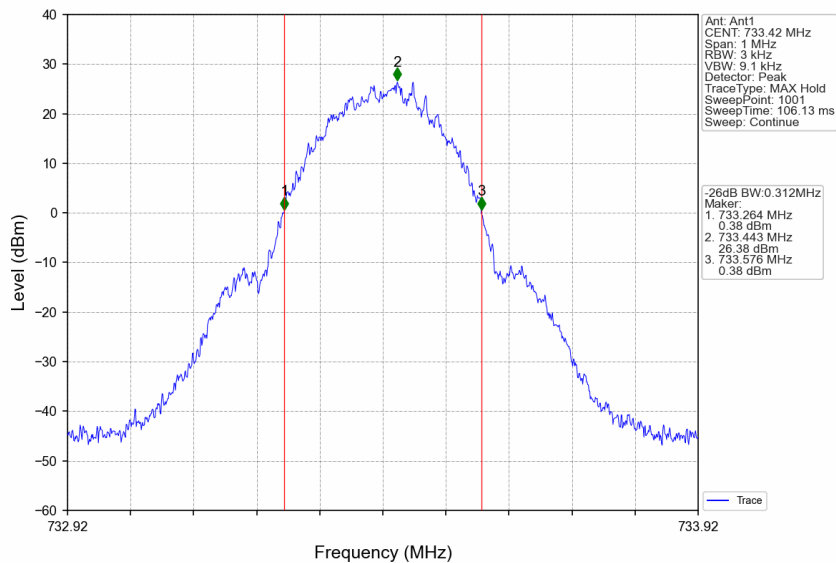
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Band12_733.42MHz_GMSK_SISO_Ant1_NTNV_Output_AGC+3



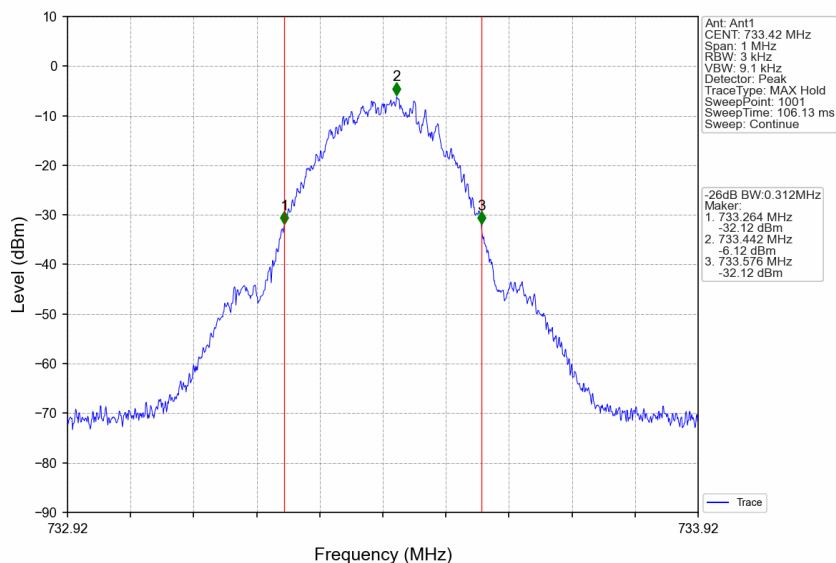
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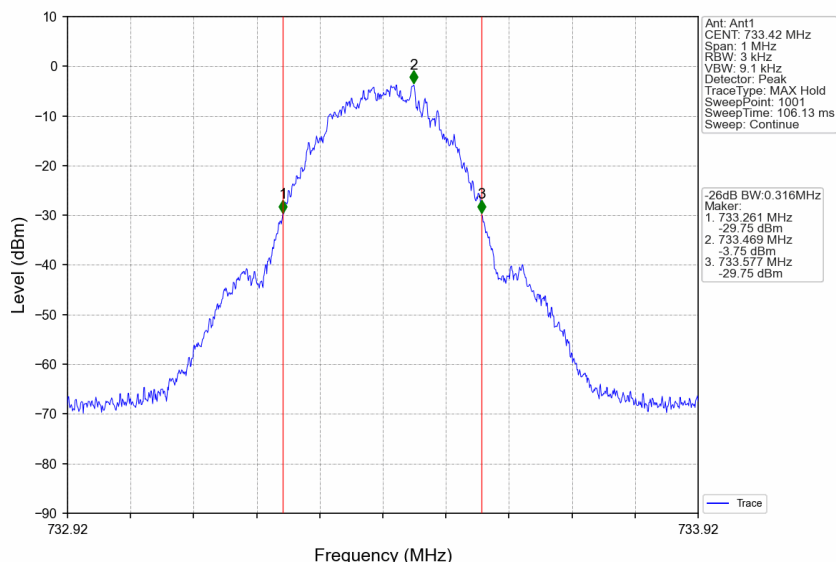
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Band12_733.42MHz_GMSK_SISO_Ant1_NTNV_Input_AGC



Band12_733.42MHz_GMSK_SISO_Ant1_NTNV_Input_AGC+3



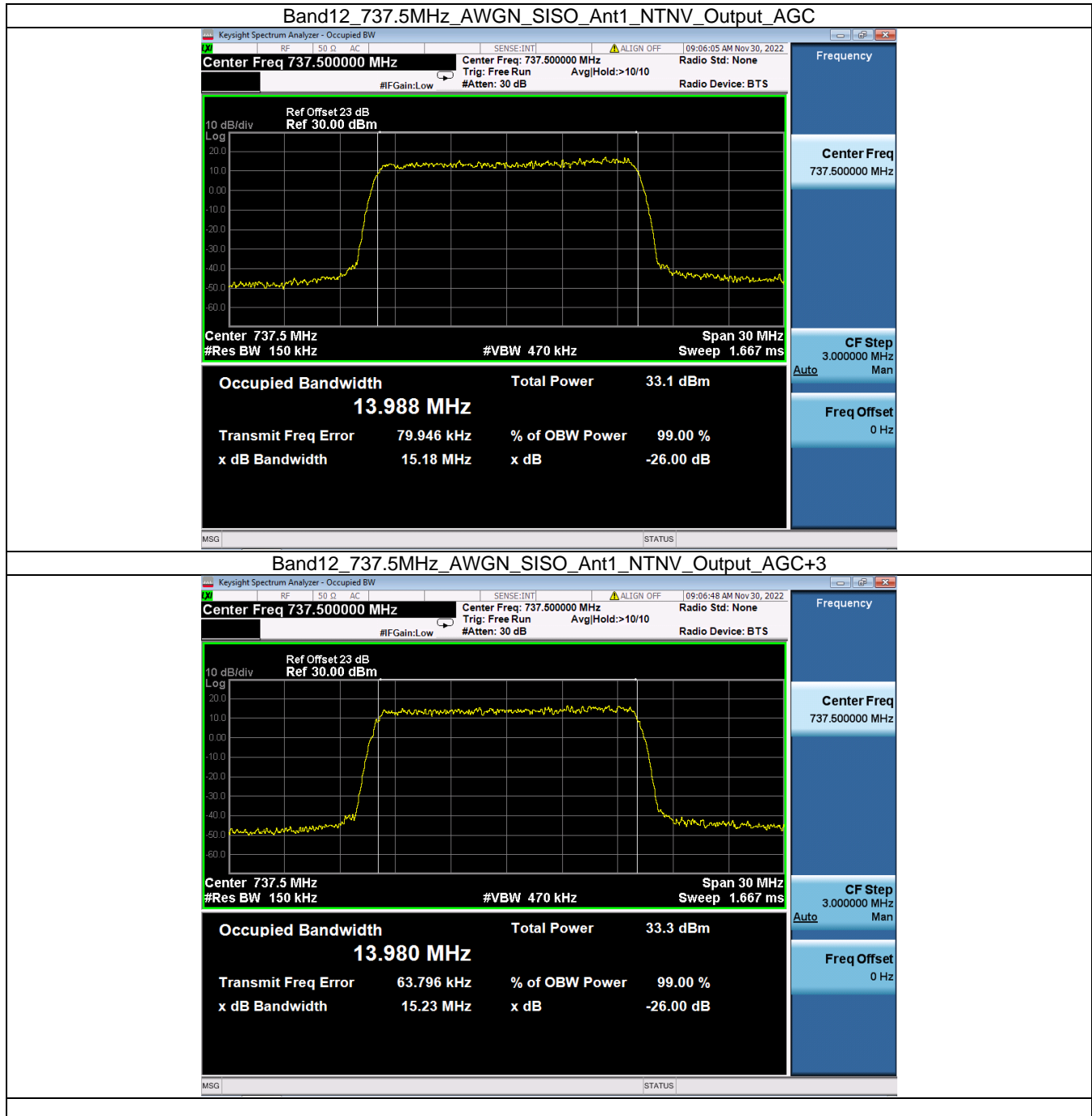
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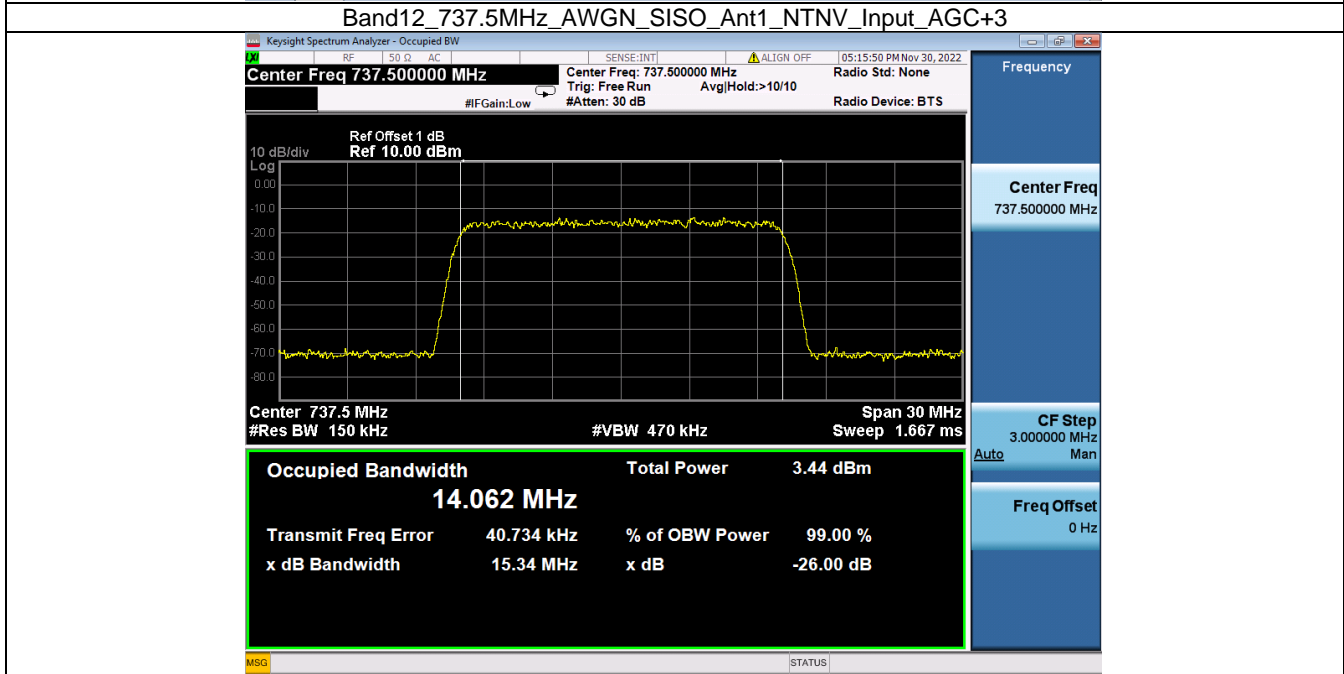
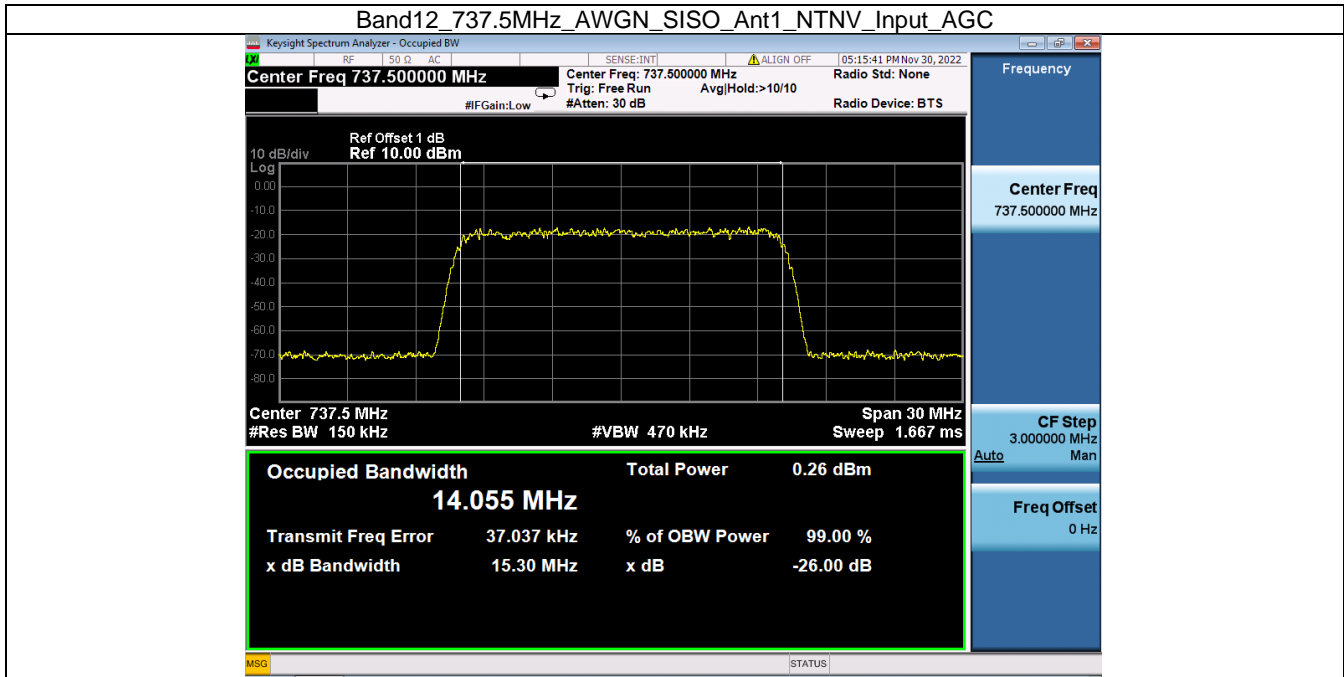


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4. Input/output power and amplifier/booster gain

4.1 Band12_ERP

4.1.1 Test Result

For LTE Band12

Band: 12 / NTNV										
Signal			TX Type	ANT	Conducted Power (dBm/MHz)		ERP (dBm/MHz)		Booster Gain (dB)	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	Result	Limit		
AWGN	0.3	733.42	SISO	1	26.28	-6.87	36.13	<=60	33.15	Pass
	3.3	733.42	SISO	1	26.33	-3.82	36.18	<=60	/	Pass
GMSK	0.3	733.42	SISO	1	33.22	0.19	43.07	<=60	33.03	Pass
	3.3	733.42	SISO	1	33.86	3.22	43.71	<=60	/	Pass

729MHz-746MHz / NTNV							
Operation Band	Frequency (MHz)	Signal	Signal Level	Input Power (dBm)	Total Output Power (dBm)	ERP(dBm)	Gain (dB)
					SISO	SISO	
729MHz-746MHz	733.42	AWGN	Pre-AGC	0.3	33.27	43.12	/
			3dB Above AGC	3.3	33.32	43.17	/
	733.42	GMSK	Pre-AGC	0.3	33.22	43.07	/
			3dB Above AGC	3.3	33.86	43.71	/

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For 5GNR N12

N12 / N12V										
Signal			TX Type	ANT	Conducted Power (dBm/MHz)		ERP (dBm/MHz)		Booster Gain (dB)	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	Result	Limit		
AWGN	0.3	737.5	SISO	1	21.56	-11.56	31.41	<=60	33.12	Pass
	3.3	737.5	SISO	1	21.65	-8.51	31.50	<=60	/	Pass

729MHz-746MHz / N12V							
Operation Band	Frequency (MHz)	Signal	Signal Level	Input Power (dBm)	Total Output Power (dBm)	ERP(dBm)	Gain (dB)
					SISO	SISO	
729MHz-746MHz	737.5	AWGN	Pre-AGC	0.3	33.31	43.16	/
			3dB Above AGC	3.3	33.40	43.25	/

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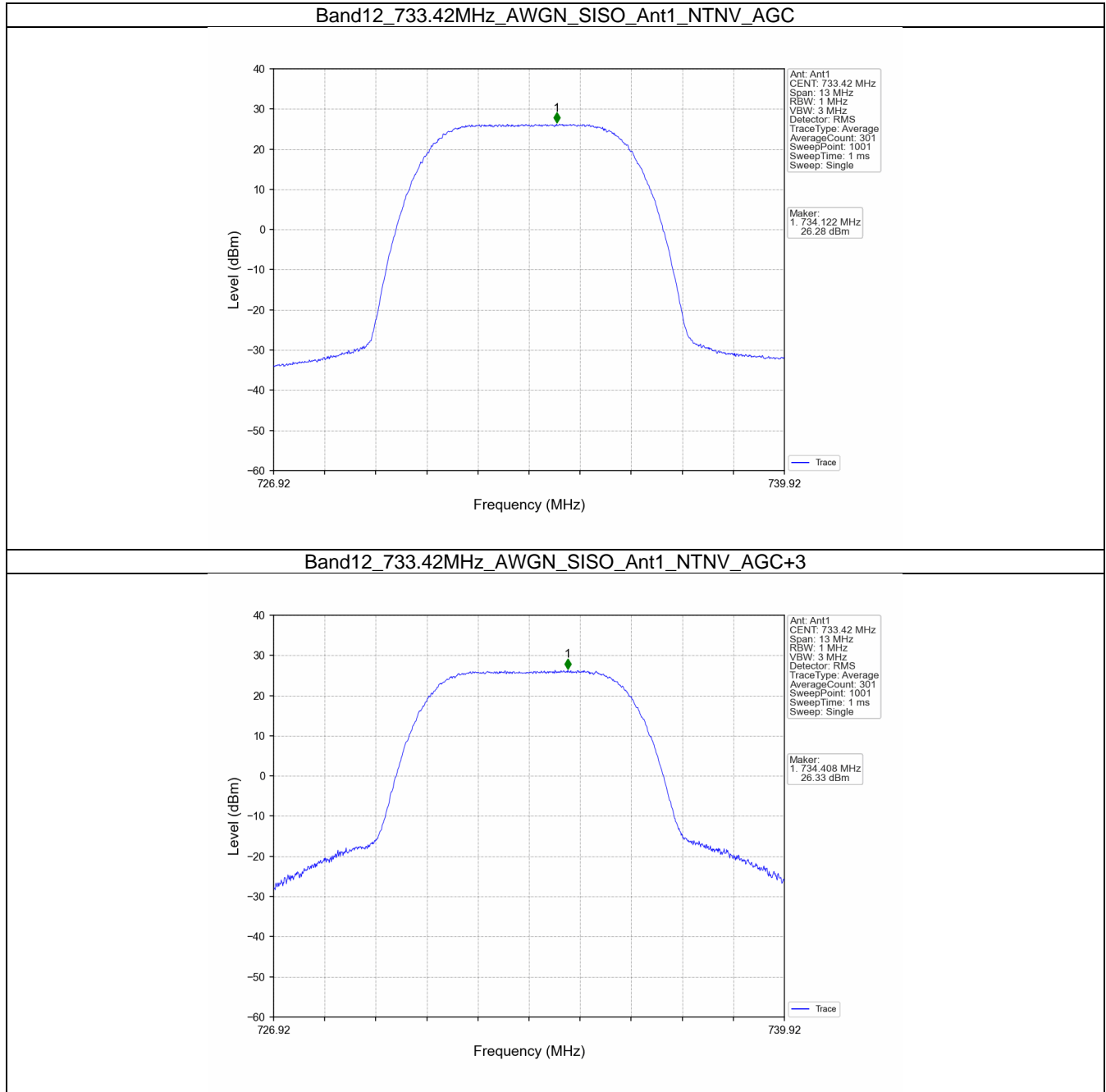
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4.1.2 Test Graph

For LTE Band12



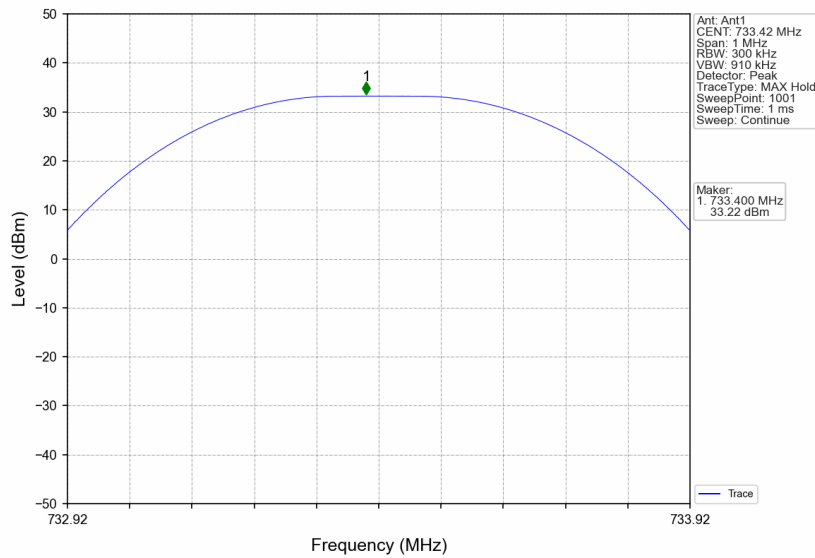
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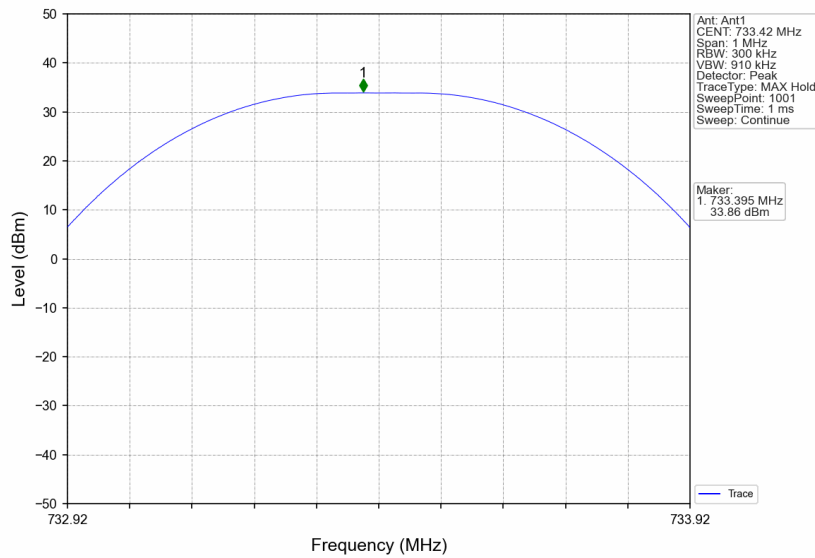
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Band12_733.42MHz_GMSK_SISO_Ant1_NTNV_AGC



Band12_733.42MHz_GMSK_SISO_Ant1_NTNV_AGC+3



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4.2 Band12_PAPR

4.2.1 Test Result

For LTE Band12

Band: 12 / NTNV							
Type	Signal		TX Type	ANT	PAPR (dB)		Verdict
	Level (dBm)	Frequency (MHz)			Result	Limit	
AWGN	0.3	733.42	SISO	1	8.23	<=13	Pass
	3.3	733.42	SISO	1	8.17	<=13	Pass
GMSK	0.3	733.42	SISO	1	0.32	<=13	Pass
	3.3	733.42	SISO	1	0.29	<=13	Pass

For 5G NR N12

N12 / NTNV							
Type	Signal		TX Type	ANT	PAPR (dB)		Verdict
	Level (dBm)	Frequency (MHz)			Result	Limit	
AWGN	0.3	737.5	SISO	1	8.39	<=13	Pass
	3.3	737.5	SISO	1	8.39	<=13	Pass

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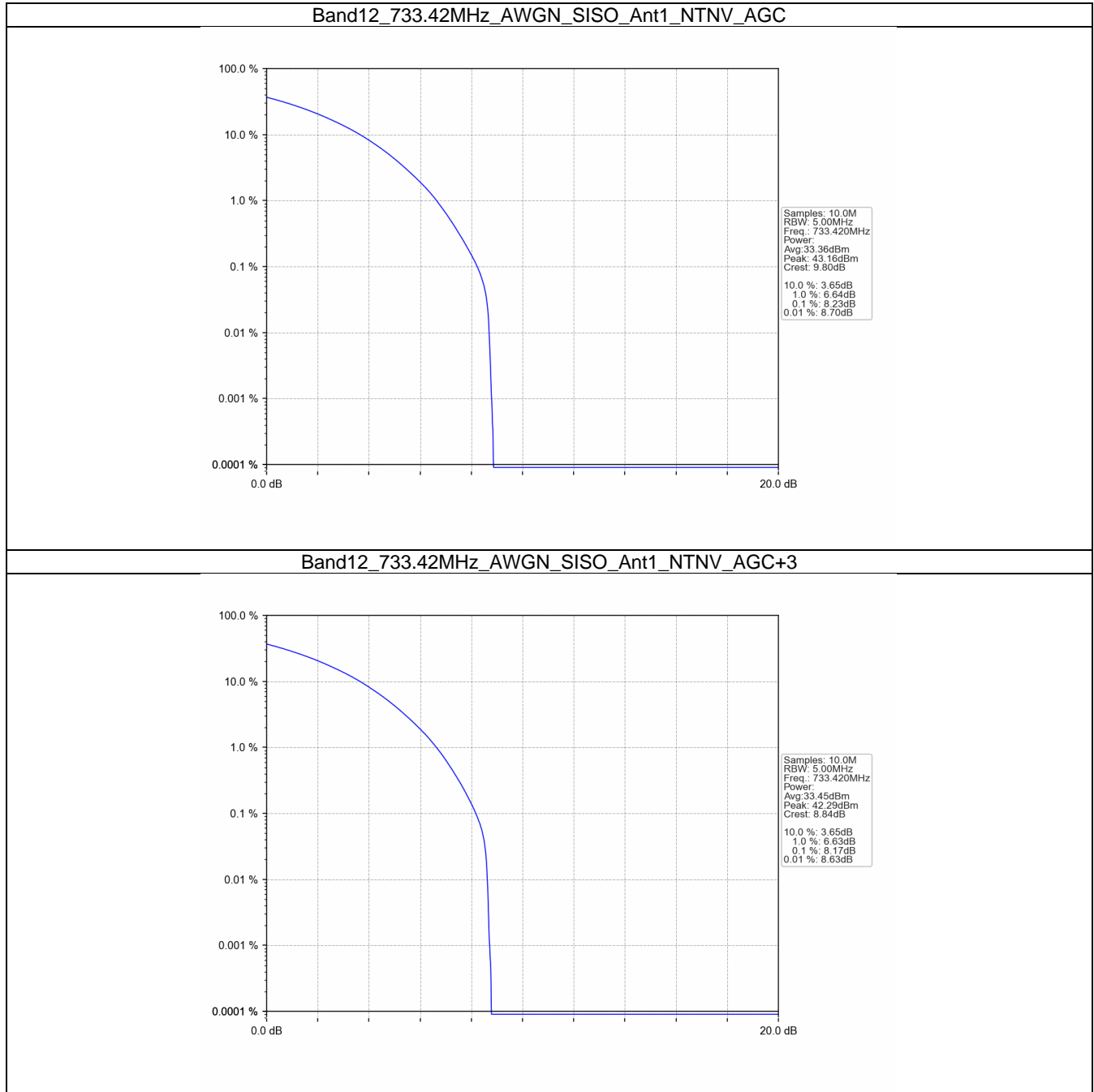
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4.2.2 Test Graph

For LTE Band12



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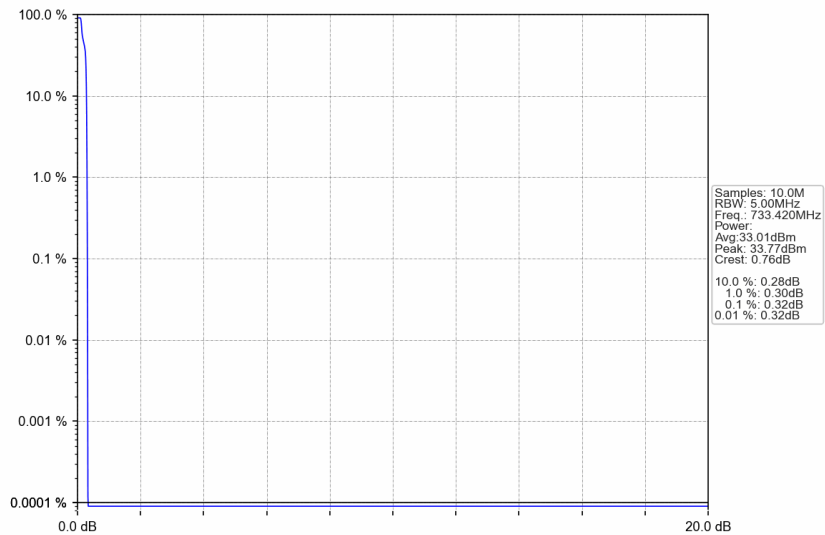
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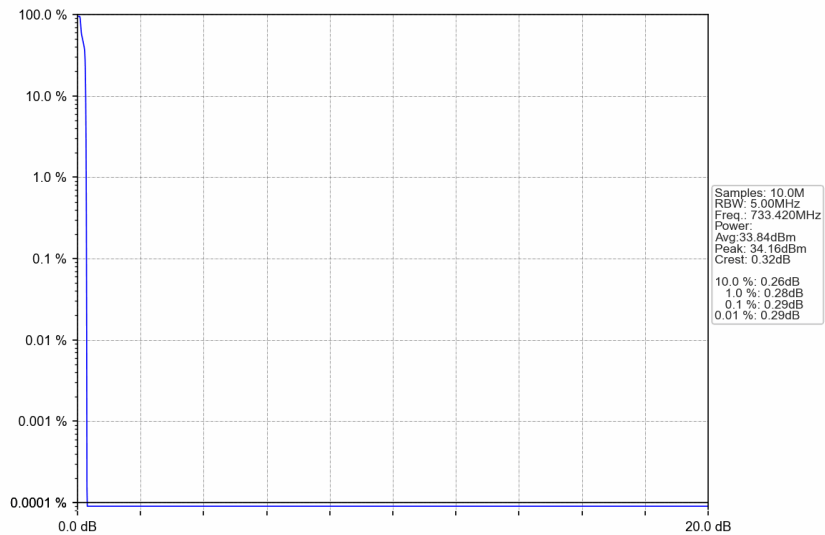
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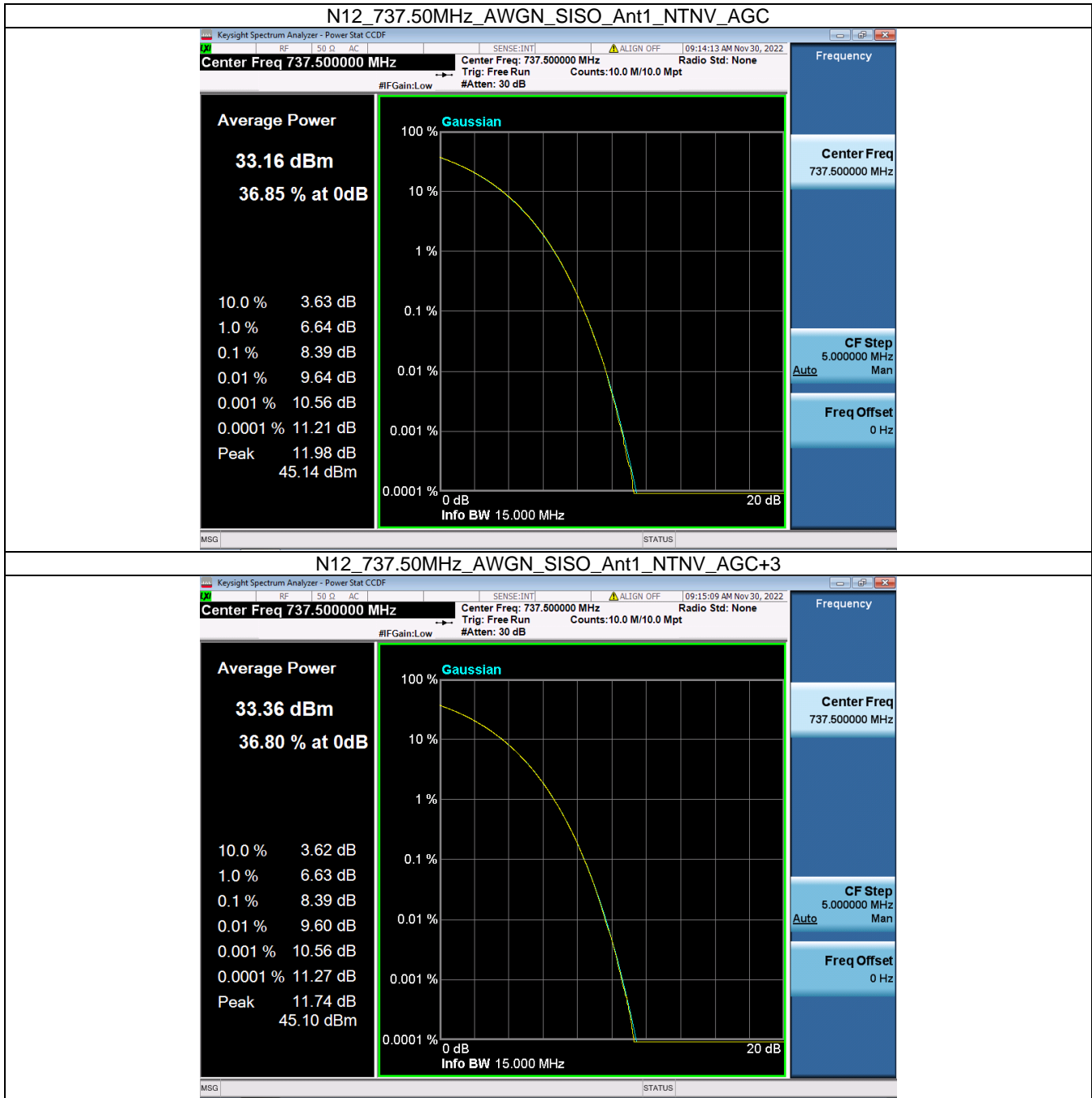
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5. Out-of-band/out-of-block (including intermodulation) emissions

5.1 Band12

5.1.1 Test Result

For LTE Band 12

Band: 12 / NTNV									
Input	Type	Signal		Channel	TX Type	ANT	OOB (dBm)		Verdict
		Level (dBm)	Frequency (MHz)				Result	Limit	
Two	AWGN	0.3	731.5	LCH	SISO	1	-62.15	Refer To Test Graph	Pass
		3.3	731.5	LCH	SISO	1	-62.38	Refer To Test Graph	Pass
One	AWGN	0.3	731.5	LCH	SISO	1	-62.73	Refer To Test Graph	Pass
		3.3	731.5	LCH	SISO	1	-62.50	Refer To Test Graph	Pass
Two	AWGN	0.3	743.5	HCH	SISO	1	-62.49	Refer To Test Graph	Pass
		3.3	743.5	HCH	SISO	1	-62.39	Refer To Test Graph	Pass
One	AWGN	0.3	743.5	HCH	SISO	1	-62.13	Refer To Test Graph	Pass
		3.3	743.5	HCH	SISO	1	-62.38	Refer To Test Graph	Pass
Two	GMSK	0.3	729.1	LCH	SISO	1	-62.44	Refer To Test Graph	Pass
		3.3	729.1	LCH	SISO	1	-62.65	Refer To Test Graph	Pass
One	GMSK	0.3	729.1	LCH	SISO	1	-62.12	Refer To Test Graph	Pass
		3.3	729.1	LCH	SISO	1	-62.33	Refer To Test Graph	Pass
Two	GMSK	0.3	745.9	HCH	SISO	1	-62.27	Refer To Test Graph	Pass
		3.3	745.9	HCH	SISO	1	-62.24	Refer To Test Graph	Pass
One	GMSK	0.3	745.9	HCH	SISO	1	-62.35	Refer To Test Graph	Pass
		3.3	745.9	HCH	SISO	1	-62.50	Refer To Test Graph	Pass

For 5GNR N12

N12 / NTNV									
Input	Type	Signal		Channel	TX Type	ANT	OOB (dBm)		Verdict
		Level (dBm)	Frequency (MHz)				Result	Limit	
Two	AWGN	0.3	736.5	LCH	SISO	1	-40.01	Refer To Test Graph	Pass
		3.3	736.5	LCH	SISO	1	-39.67	Refer To Test Graph	Pass
One	AWGN	0.3	736.5	LCH	SISO	1	-39.75	Refer To Test Graph	Pass
		3.3	736.5	LCH	SISO	1	-39.65	Refer To Test Graph	Pass
Two	AWGN	0.3	738.5	HCH	SISO	1	-38.31	Refer To Test Graph	Pass
		3.3	738.5	HCH	SISO	1	-38.08	Refer To Test Graph	Pass
One	AWGN	0.3	738.5	HCH	SISO	1	-38.24	Refer To Test Graph	Pass
		3.3	738.5	HCH	SISO	1	-38.42	Refer To Test Graph	Pass

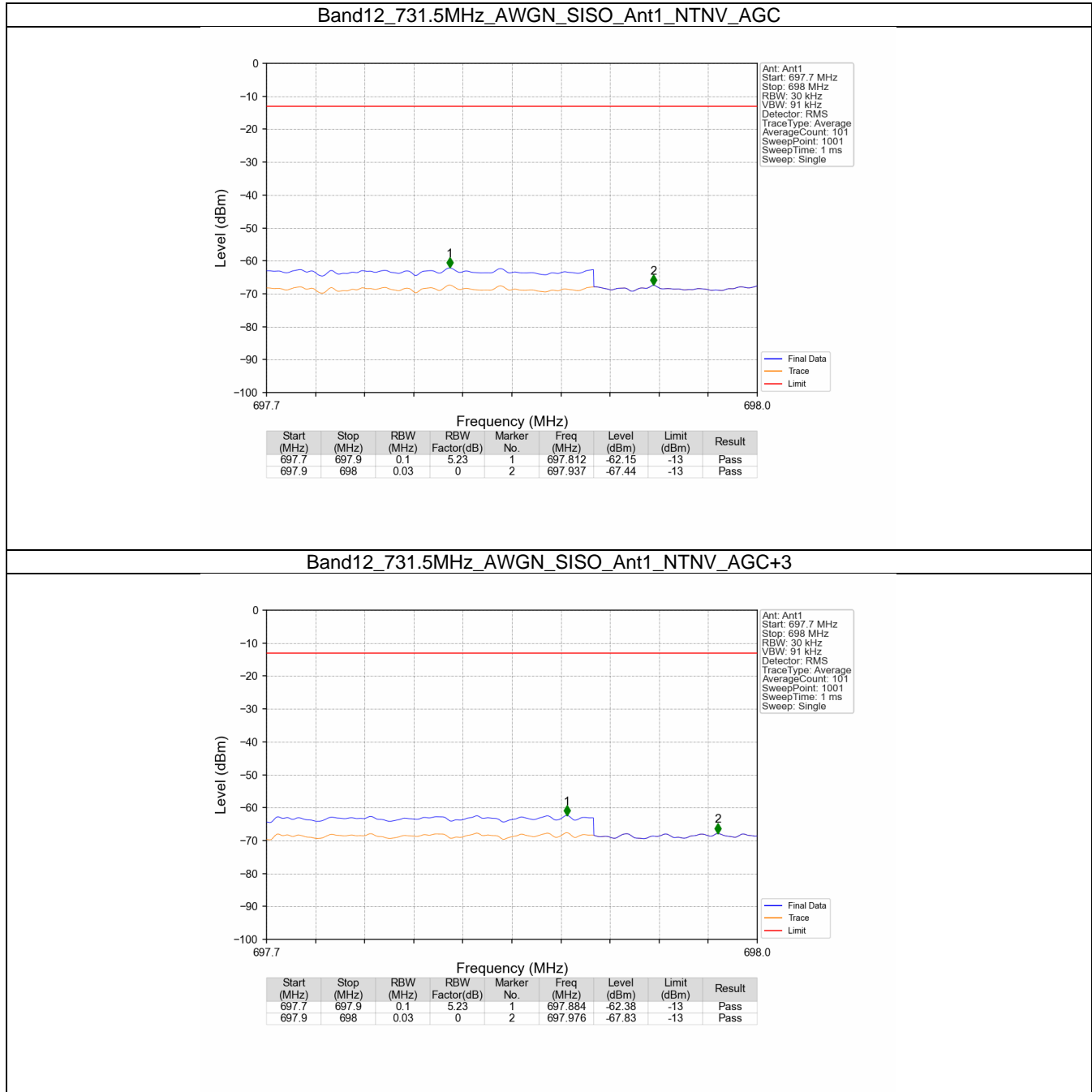


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5.1.2 Test Graph

For LTE Band 12



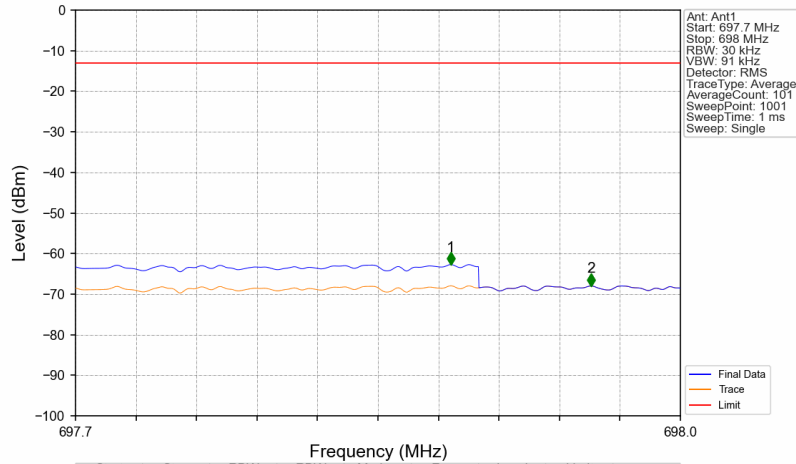
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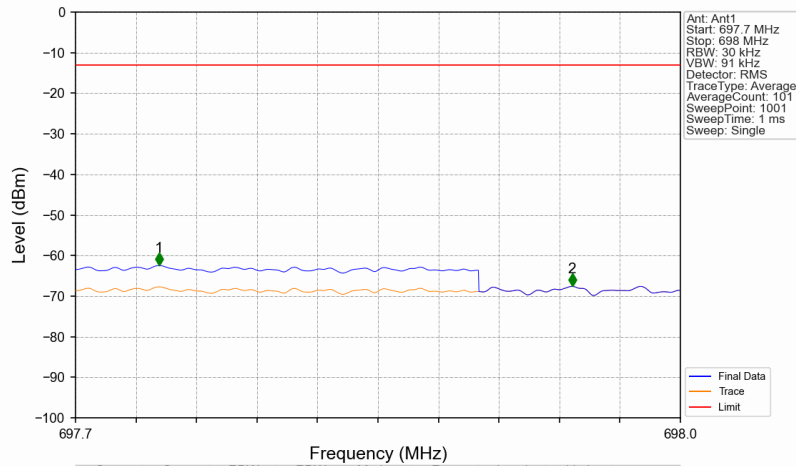
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Band12_731.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.7	697.9	0.1	5.23	1	697.886	-62.73	-13	Pass
697.9	698	0.03	0	2	697.956	-67.99	-13	Pass

Band12_731.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.7	697.9	0.1	5.23	1	697.741	-62.50	-13	Pass
697.9	698	0.03	0	2	697.946	-67.61	-13	Pass



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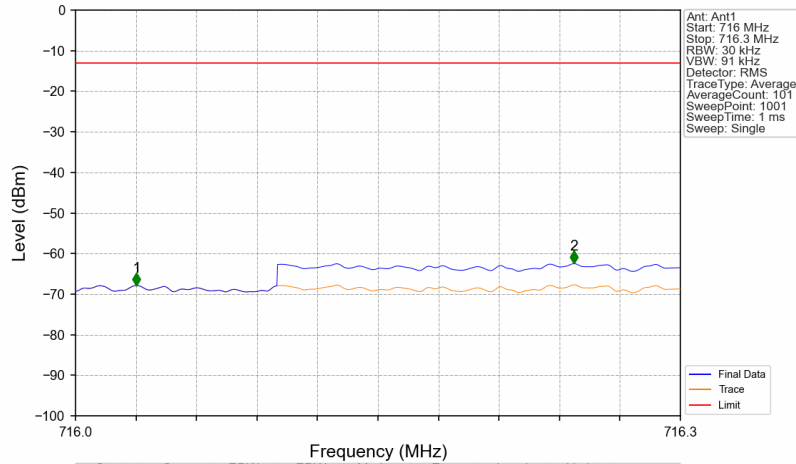
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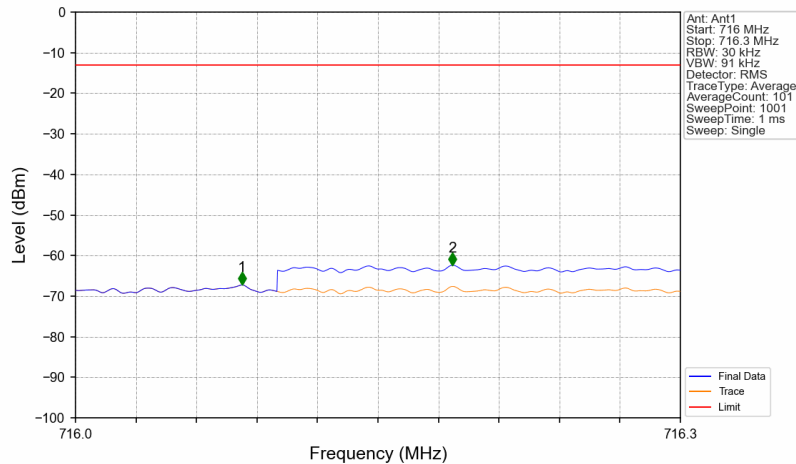
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Band12_743.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
716	716.1	0.03	0	1	716.030	-67.87	-13	Pass
716.1	716.3	0.1	5.23	2	716.247	-62.49	-13	Pass

Band12_743.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
716	716.1	0.03	0	1	716.082	-67.26	-13	Pass
716.1	716.3	0.1	5.23	2	716.187	-62.39	-13	Pass

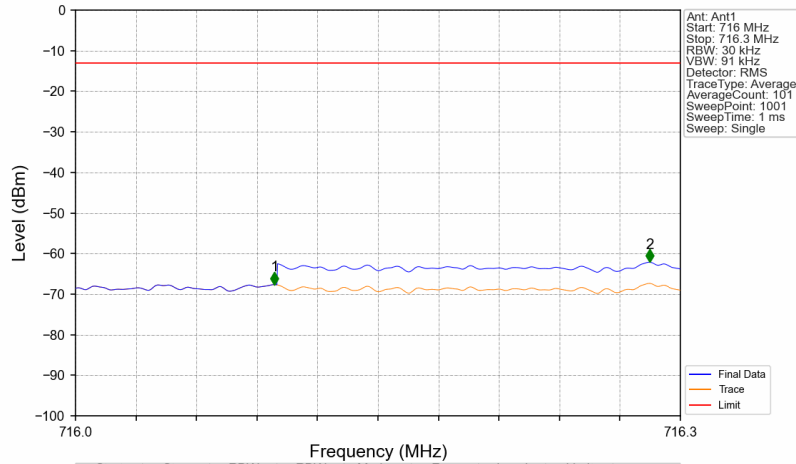


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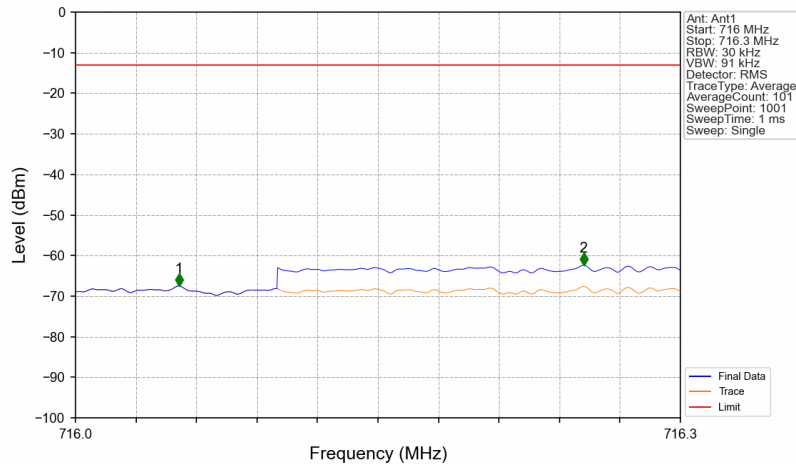
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Band12_743.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
716	716.1	0.03	0	1	716.099	-67.66	-13	Pass
716.1	716.3	0.1	5.23	2	716.285	-62.13	-13	Pass

Band12_743.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
716	716.1	0.03	0	1	716.051	-67.50	-13	Pass
716.1	716.3	0.1	5.23	2	716.252	-62.38	-13	Pass



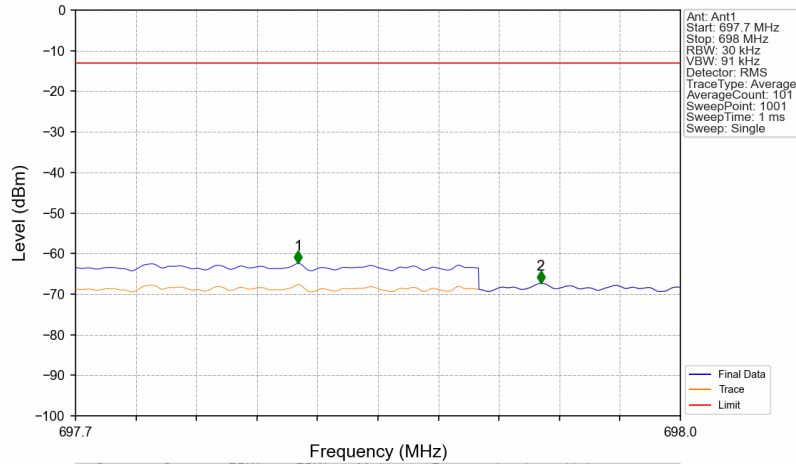
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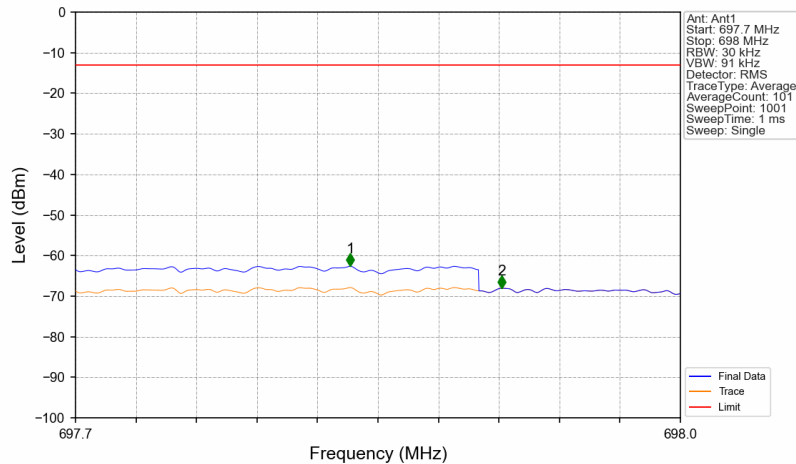
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Band12_729.1MHz_GMSK_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.7	697.9	0.1	5.23	1	697.810	-62.44	-13	Pass
697.9	698	0.03	0	2	697.931	-67.37	-13	Pass

Band12_729.1MHz_GMSK_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.7	697.9	0.1	5.23	1	697.836	-62.65	-13	Pass
697.9	698	0.03	0	2	697.912	-68.07	-13	Pass

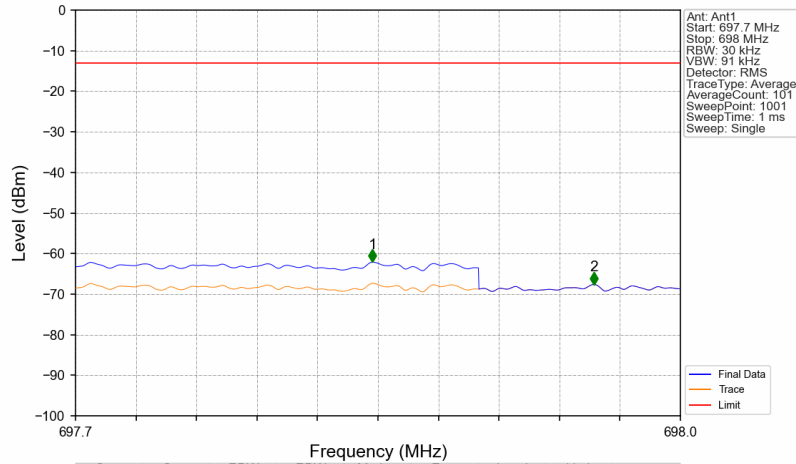


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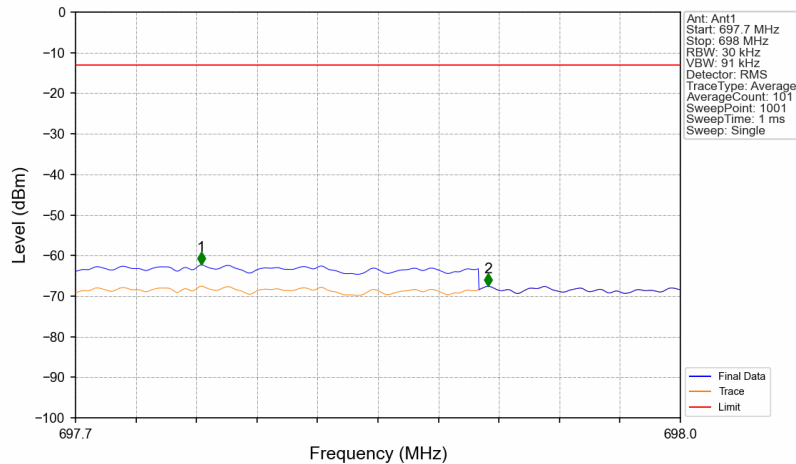
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Band12_729.1MHz_GMSK_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.7	697.9	0.1	5.23	1	697.847	-62.12	-13	Pass
697.9	698	0.03	0	2	697.957	-67.63	-13	Pass

Band12_729.1MHz_GMSK_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.7	697.9	0.1	5.23	1	697.762	-62.33	-13	Pass
697.9	698	0.03	0	2	697.905	-67.59	-13	Pass



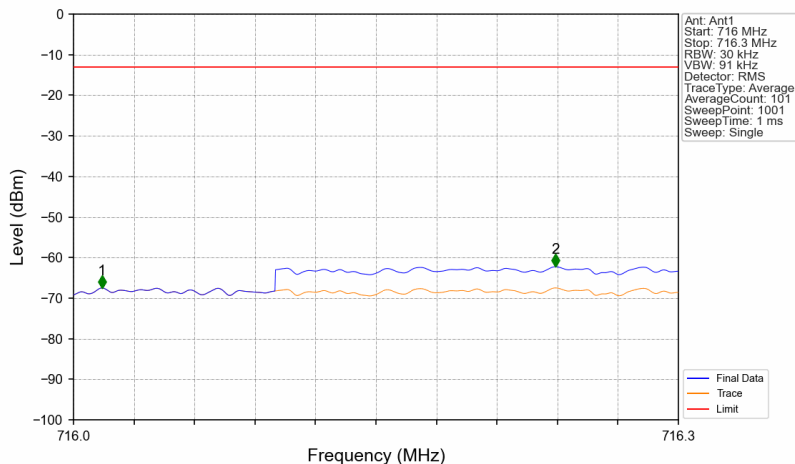
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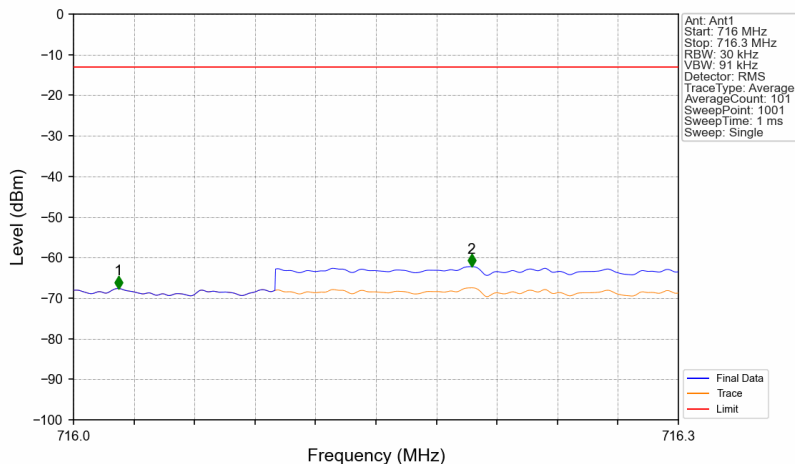
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Band12_745.9MHz_GMSK_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
716	716.1	0.03	0	1	716.014	-67.52	-13	Pass
716.1	716.3	0.1	5.23	2	716.239	-62.27	-13	Pass

Band12_745.9MHz_GMSK_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
716	716.1	0.03	0	1	716.022	-67.64	-13	Pass
716.1	716.3	0.1	5.23	2	716.197	-62.24	-13	Pass

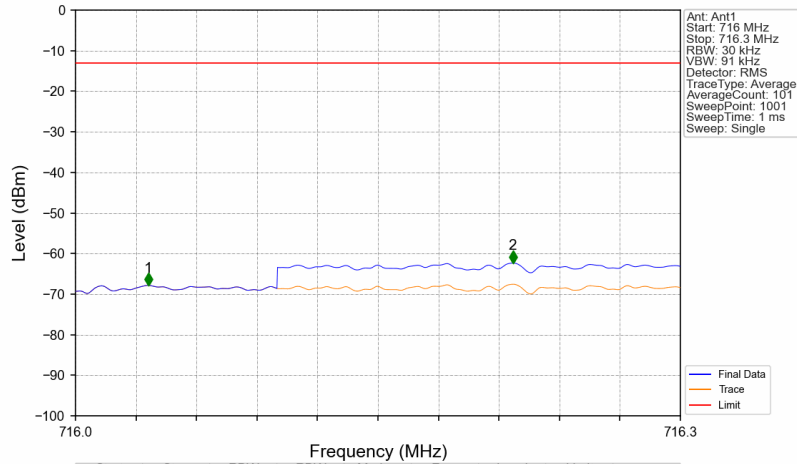


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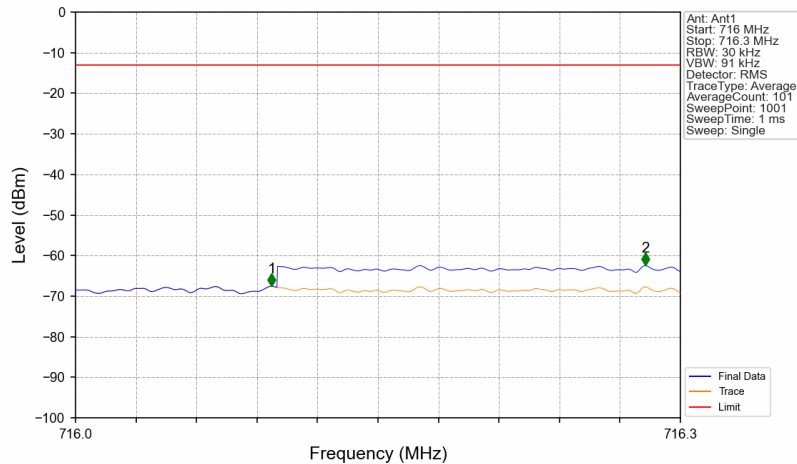
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Band12_745.9MHz_GMSK_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
716	716.1	0.03	0	1	716.036	-67.84	-13	Pass
716.1	716.3	0.1	5.23	2	716.217	-62.35	-13	Pass

Band12_745.9MHz_GMSK_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
716	716.1	0.03	0	1	716.097	-67.56	-13	Pass
716.1	716.3	0.1	5.23	2	716.283	-62.50	-13	Pass



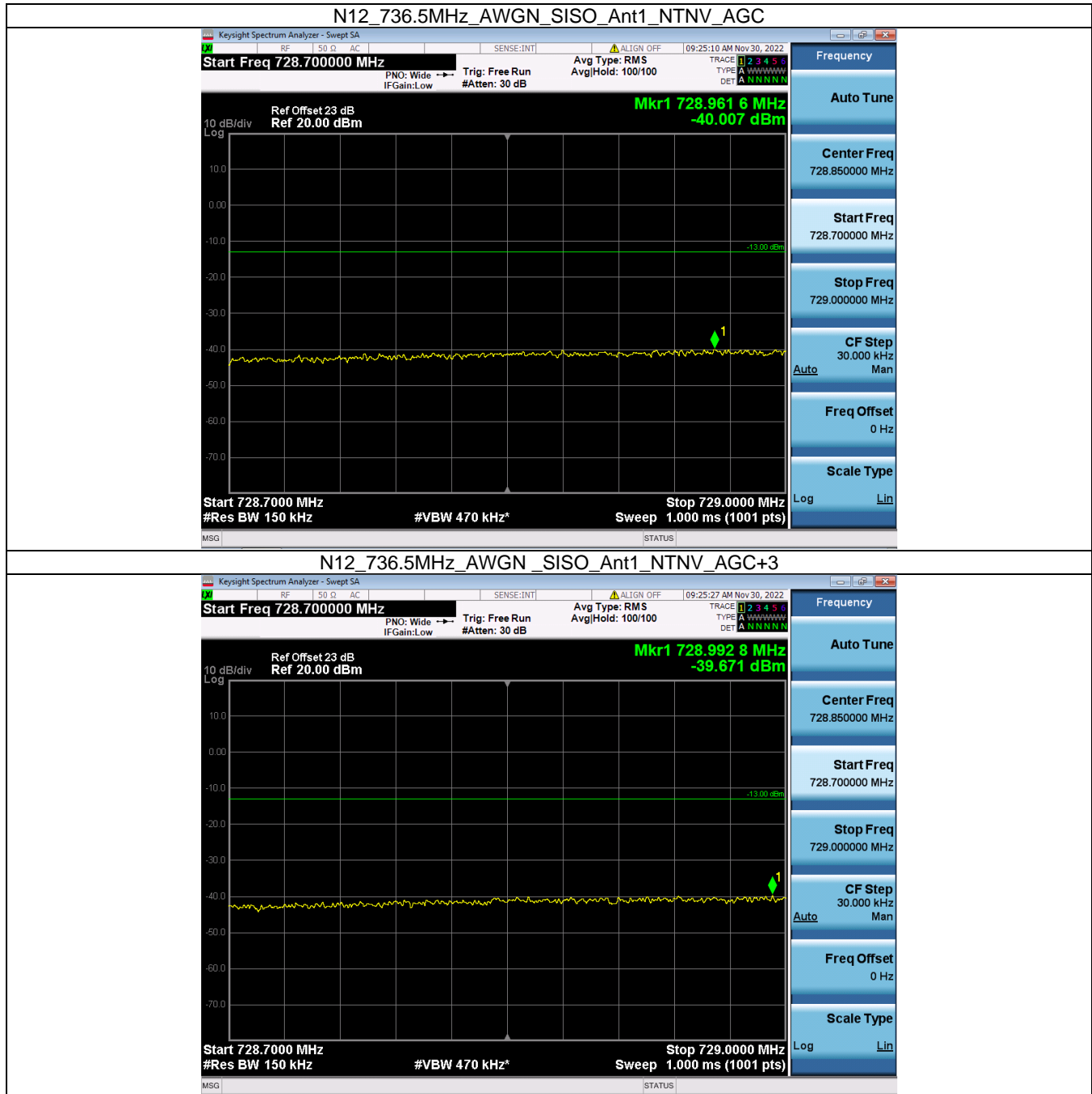
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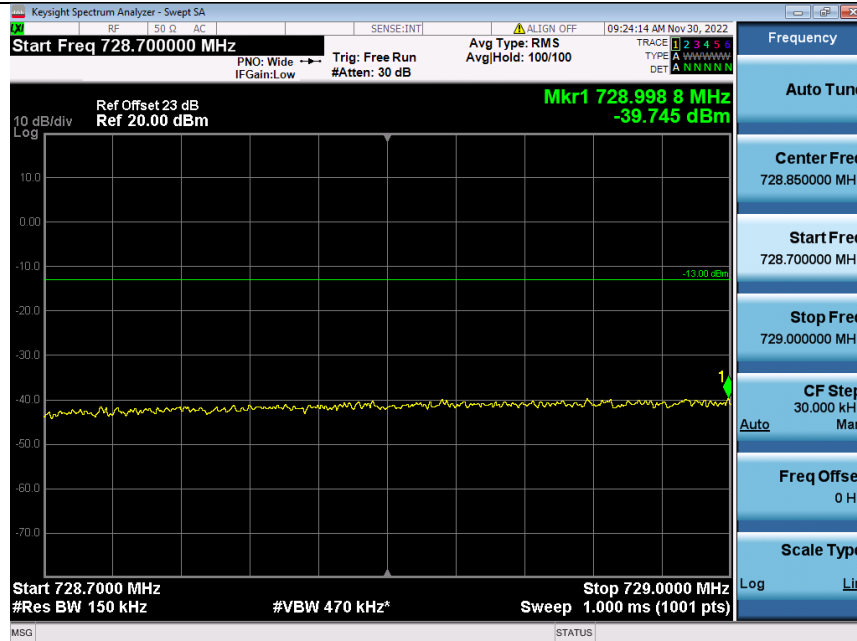
For 5GNR N12



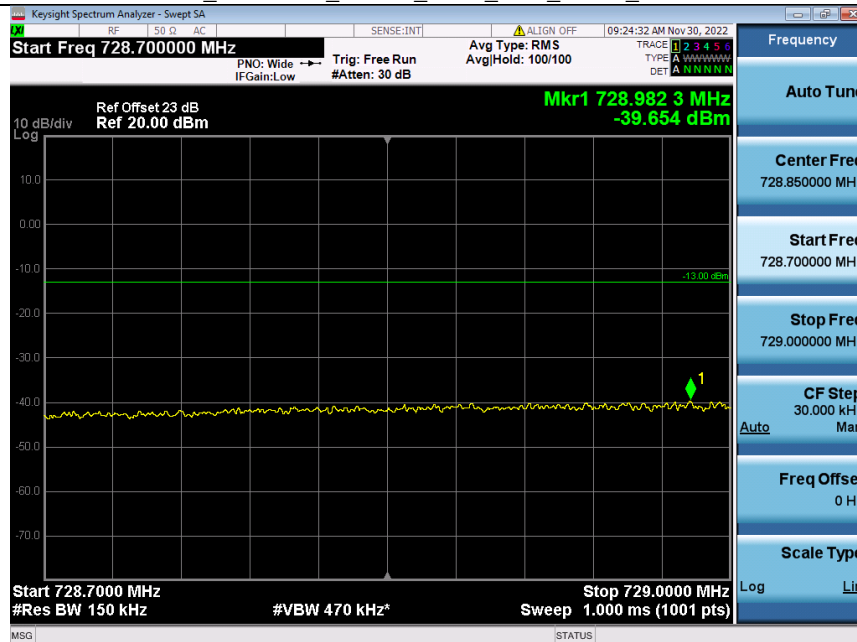
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N12_736.5MHz_AWGN_SISO_Ant1_NTNV_AGC



N12_736.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



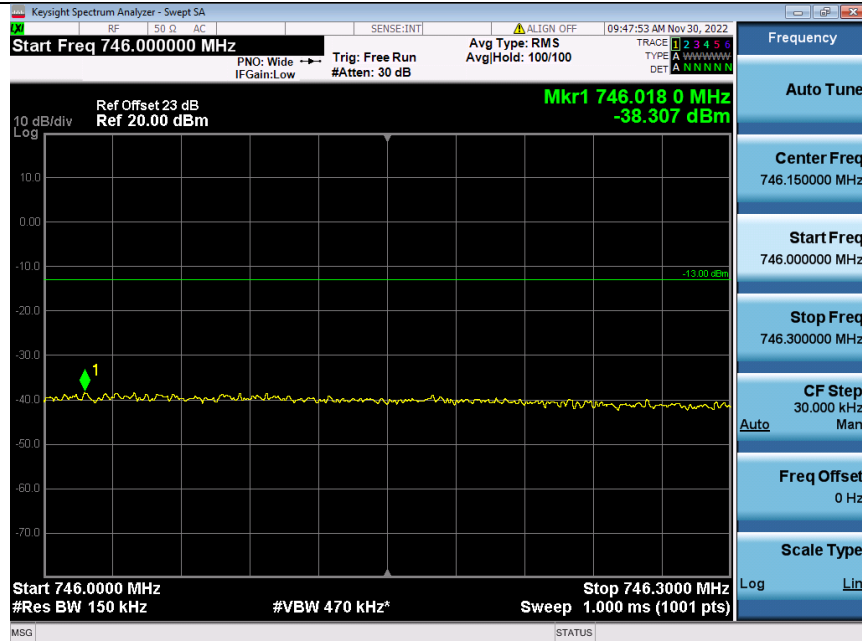
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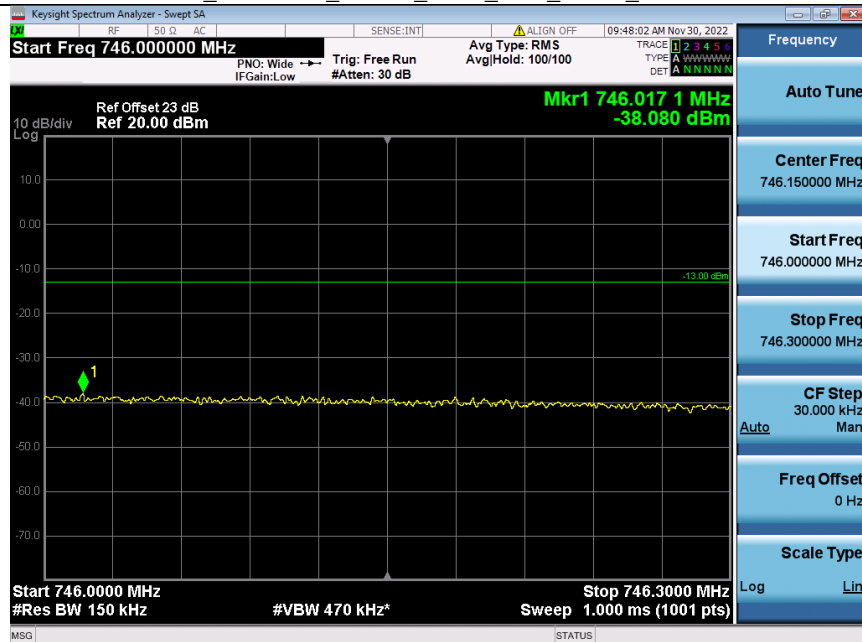
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N12_738.5MHz_AWGN_SISO_Ant1_NTNV_AGC



N12_738.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



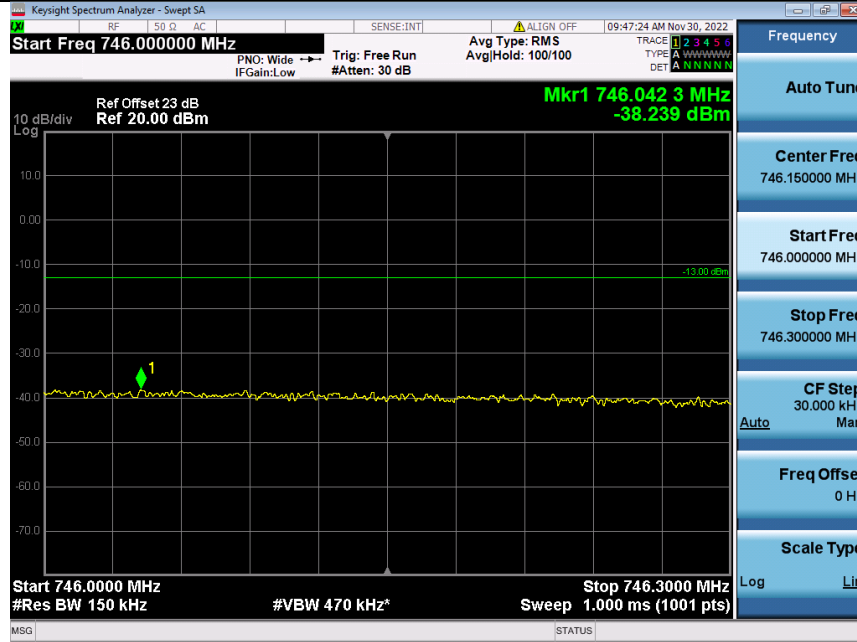
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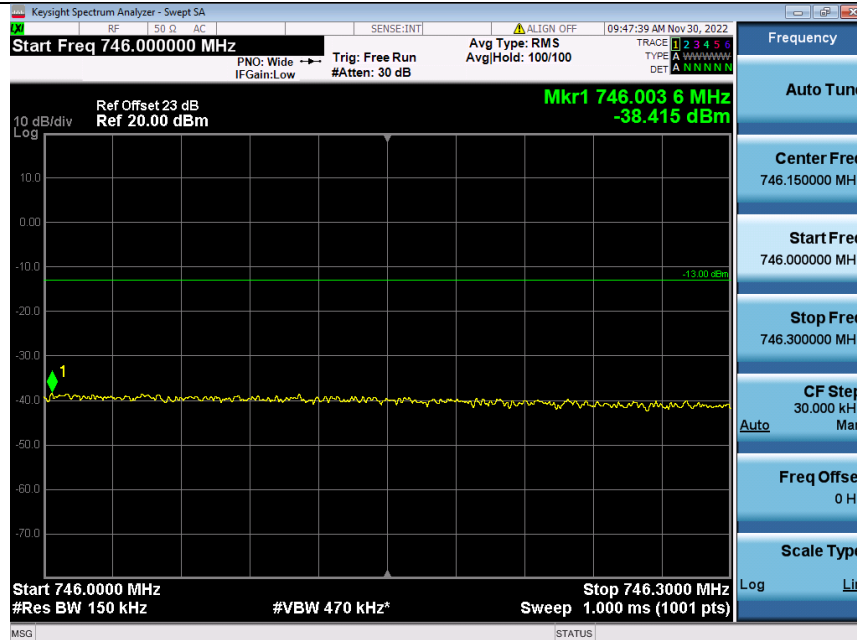
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N12_738.5MHz_AWGN_SISO_Ant1_NTNV_AGC



N12_738.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



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6. Spurious emissions

6.1 Band12

6.1.1 Test Result

For LTE Band 12

Band: 12 / NTNV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
AWGN	0.3	731.5	LCH	SISO	1	Refer To Test Graph		Pass
		737.5	MCH	SISO	1	Refer To Test Graph		Pass
		743.5	HCH	SISO	1	Refer To Test Graph		Pass
GMSK	0.3	729.1	LCH	SISO	1	Refer To Test Graph		Pass
		737.5	MCH	SISO	1	Refer To Test Graph		Pass
		745.9	HCH	SISO	1	Refer To Test Graph		Pass

For 5GNR N12

N12 / NTNV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
AWGN	0.3	736.5	LCH	SISO	1	Refer To Test Graph		Pass
		737.5	MCH	SISO	1	Refer To Test Graph		Pass
		738.5	HCH	SISO	1	Refer To Test Graph		Pass

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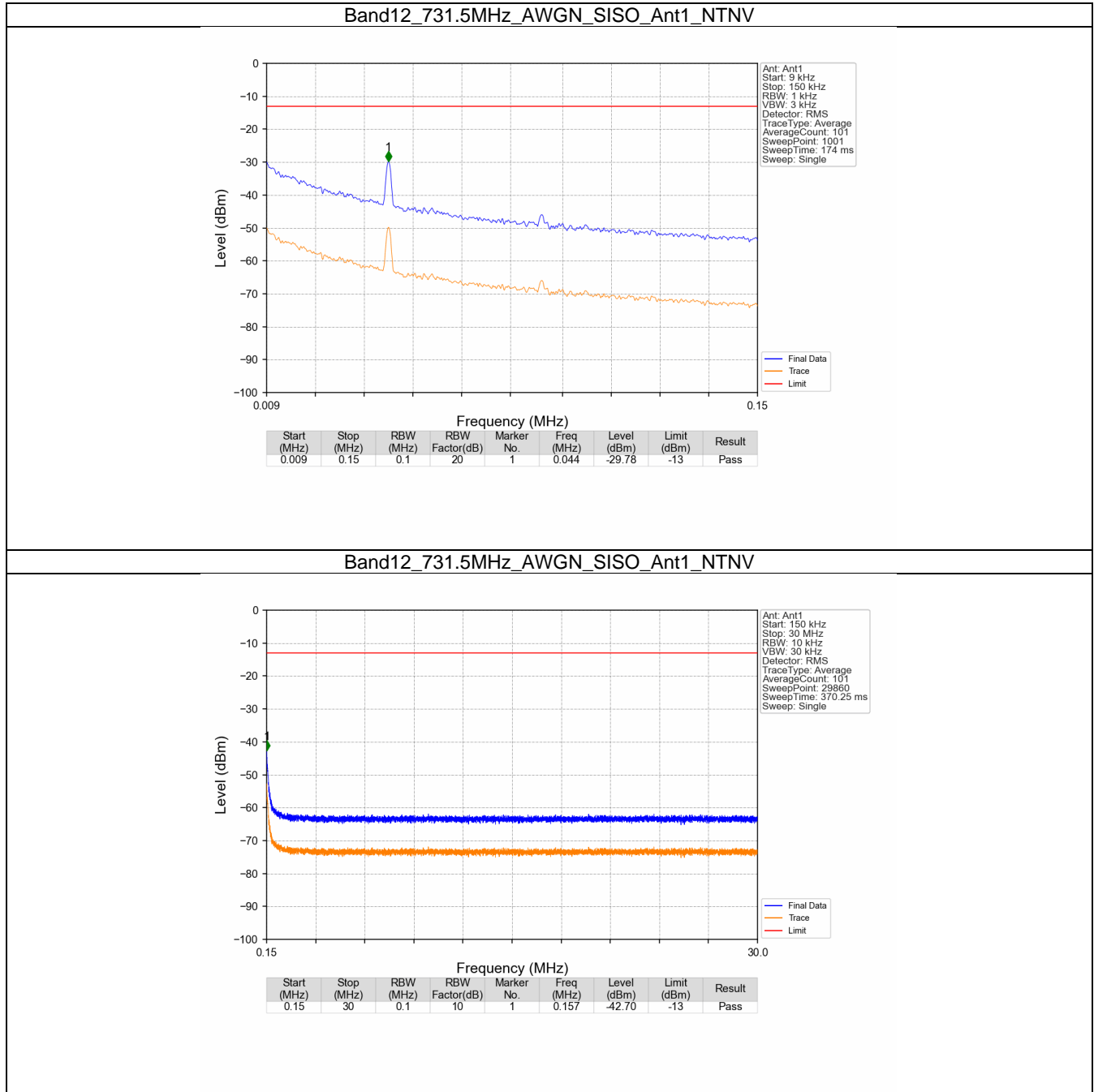
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6.1.2 Test Graph

For LTE Band 12



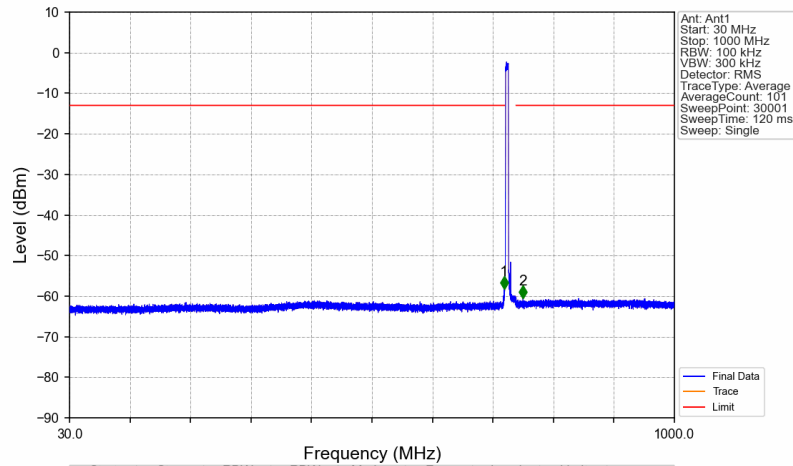
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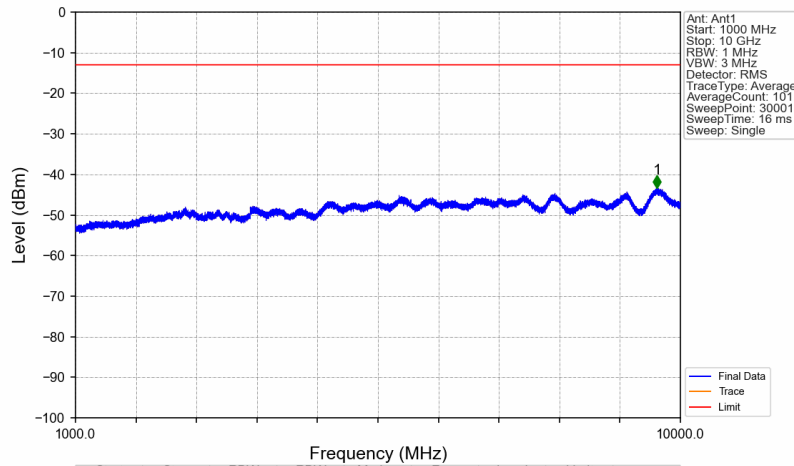
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Band12_731.5MHz_AWGN_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	0.1	0	1	727.074	-58.29	-13	Pass
1000	1000	0.1	0	2	757.209	-60.54	-13	Pass

Band12_731.5MHz_AWGN_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	10000	1	0	1	9651.700	-43.29	-13	Pass



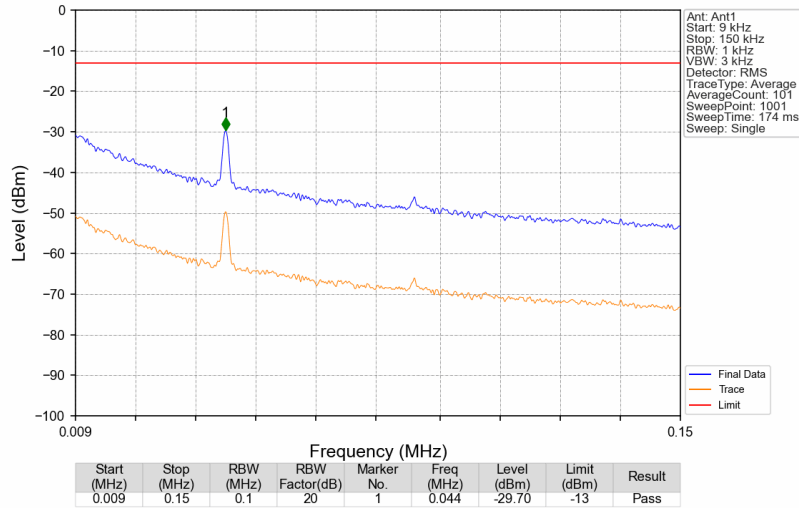
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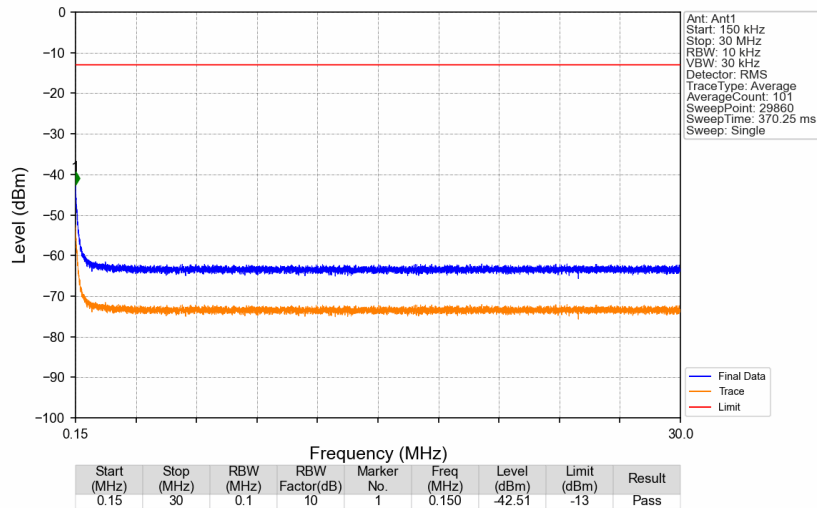
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Band12_737.5MHz_AWGN_SISO_Ant1_NTNV



Band12_737.5MHz_AWGN_SISO_Ant1_NTNV



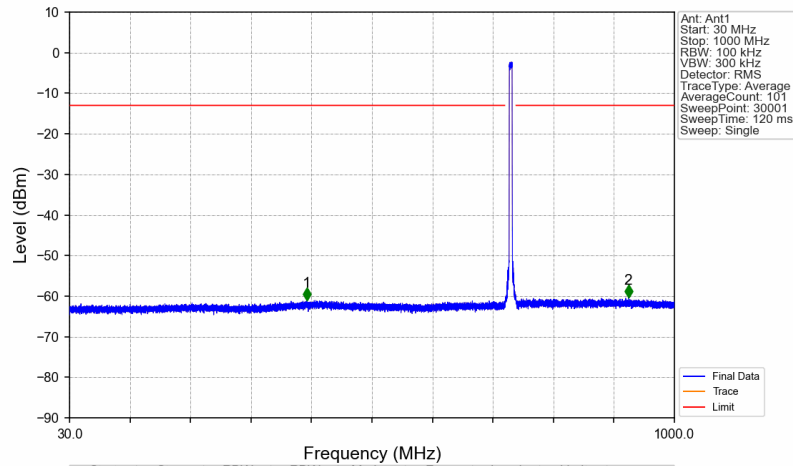
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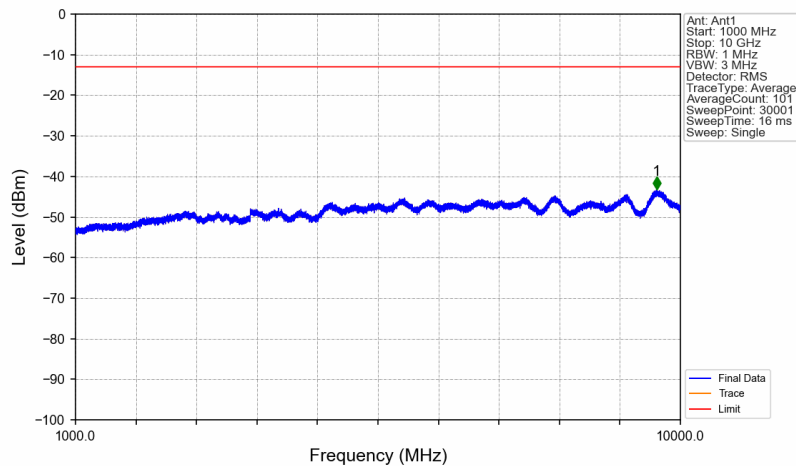
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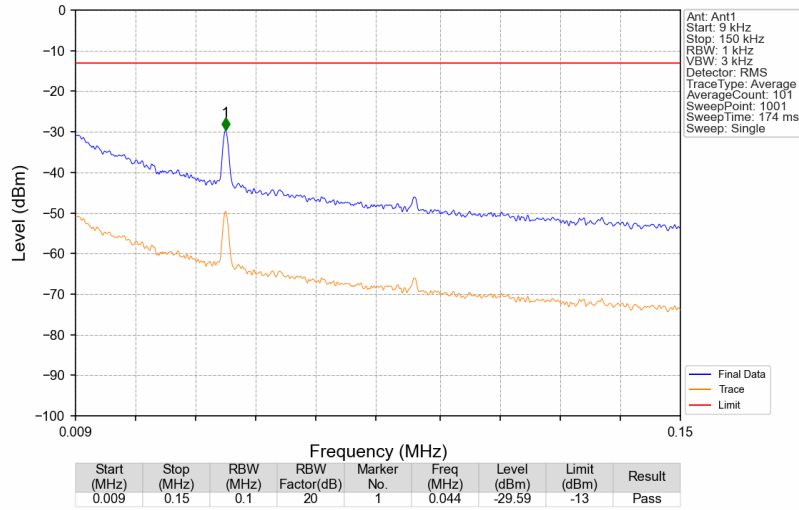
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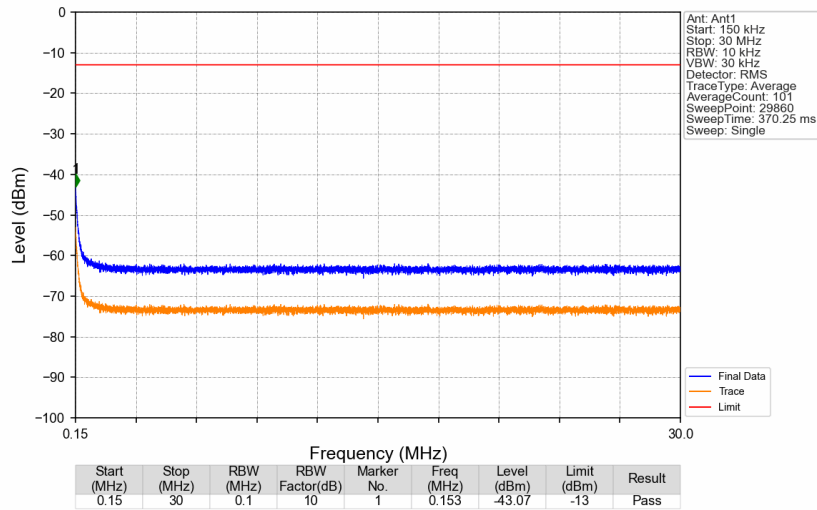
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Band12_743.5MHz_AWGN_SISO_Ant1_NTNV



Band12_743.5MHz_AWGN_SISO_Ant1_NTNV



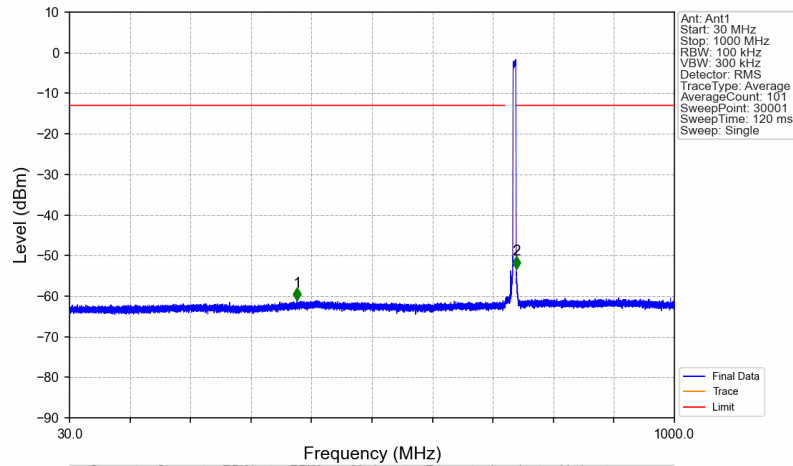
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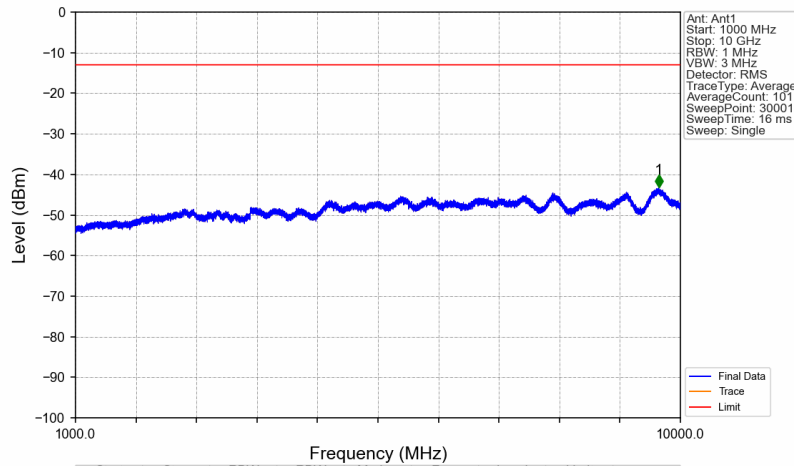
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Band12_743.5MHz_AWGN_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	0.1	0	1	394.688	-61.07	-13	Pass
1000	1000	0.1	0	2	746.377	-53.25	-13	Pass

Band12_743.5MHz_AWGN_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	10000	1	0	1	9677.500	-43.19	-13	Pass



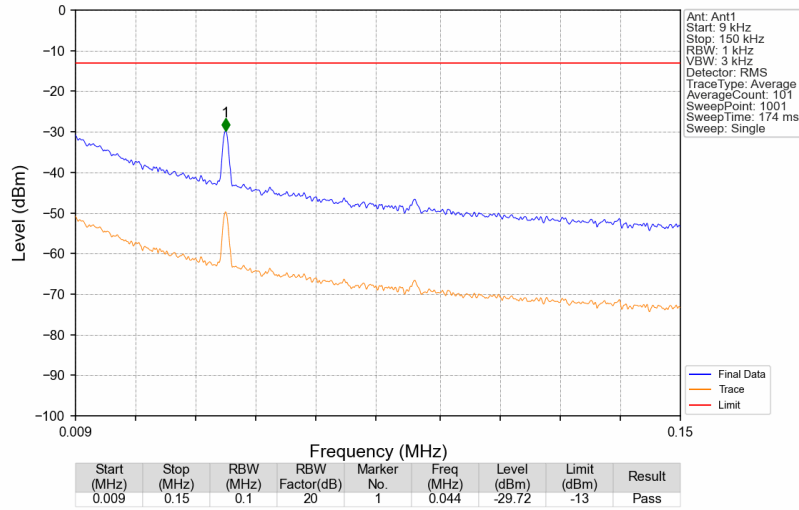
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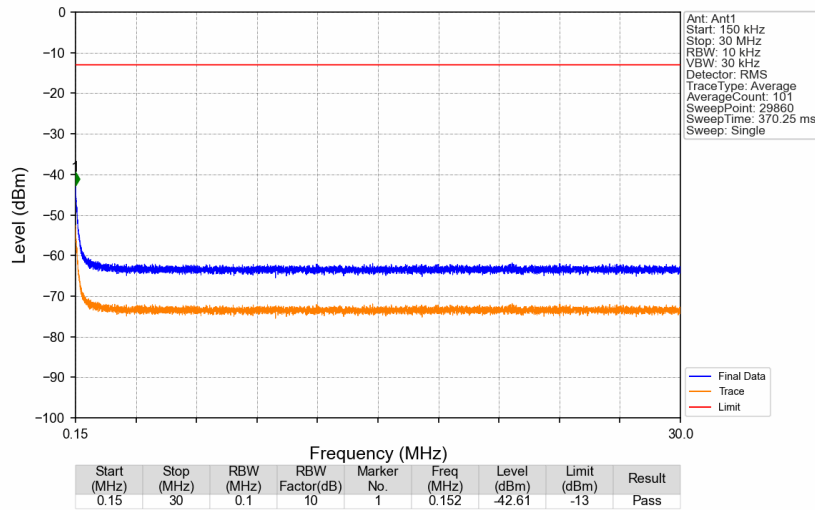
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Band12_729.1MHz_GMSK_SISO_Ant1_NTNV



Band12_729.1MHz_GMSK_SISO_Ant1_NTNV



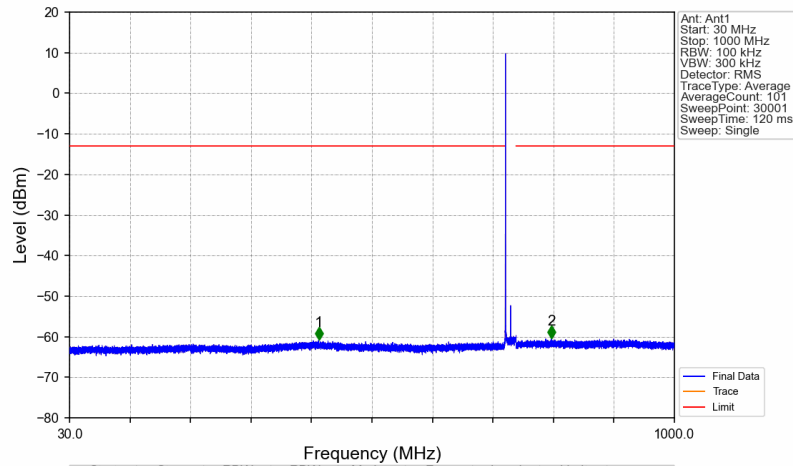
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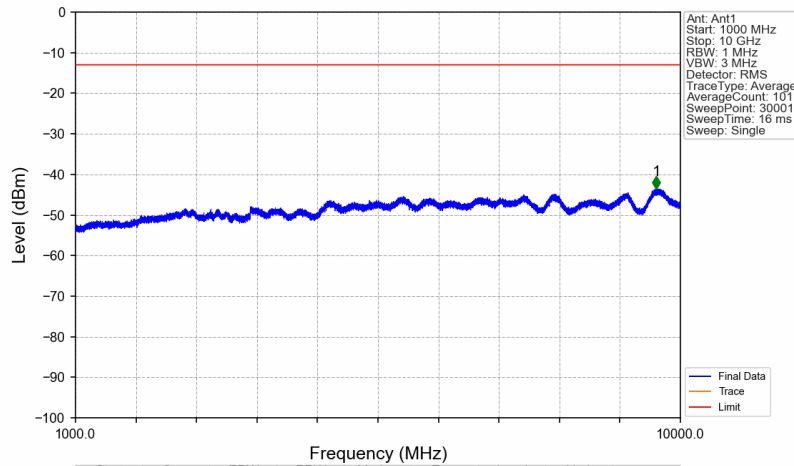
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Band12_729.1MHz_GMSK_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	0.1	0	1	429.640	-60.85	-13	Pass
1000	1000	0.1	0	2	802.767	-60.40	-13	Pass

Band12_729.1MHz_GMSK_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	10000	1	0	1	9639.700	-43.55	-13	Pass



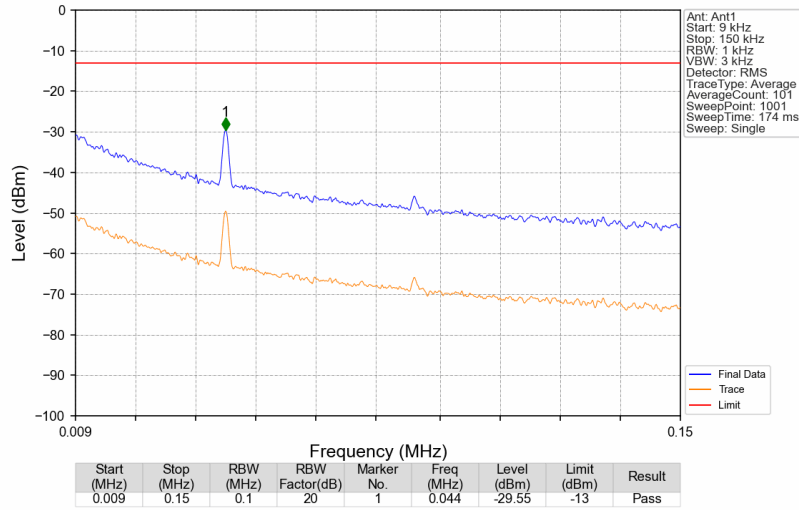
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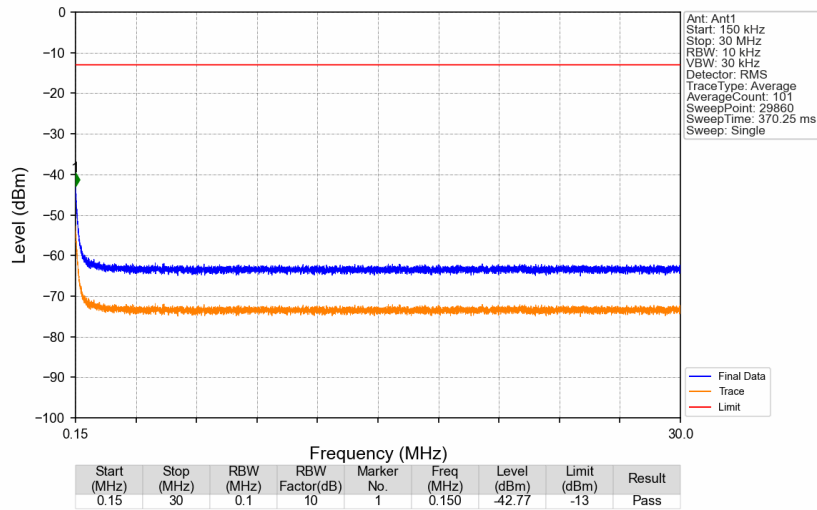
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Band12_737.5MHz_GMSK_SISO_Ant1_NTNV



Band12_737.5MHz_GMSK_SISO_Ant1_NTNV



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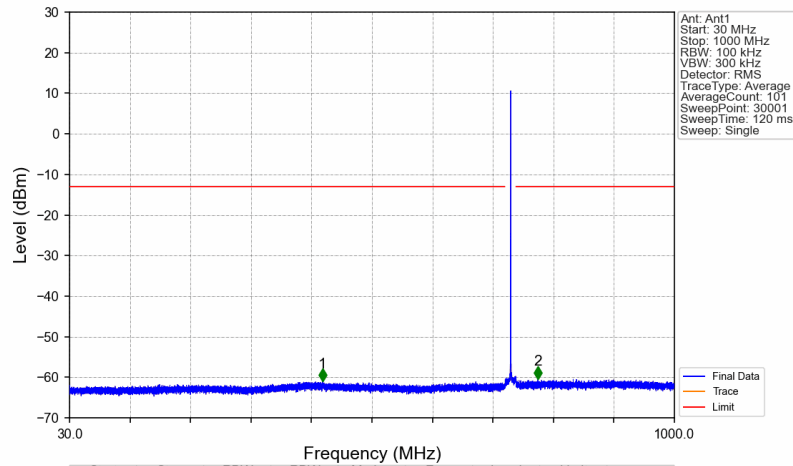
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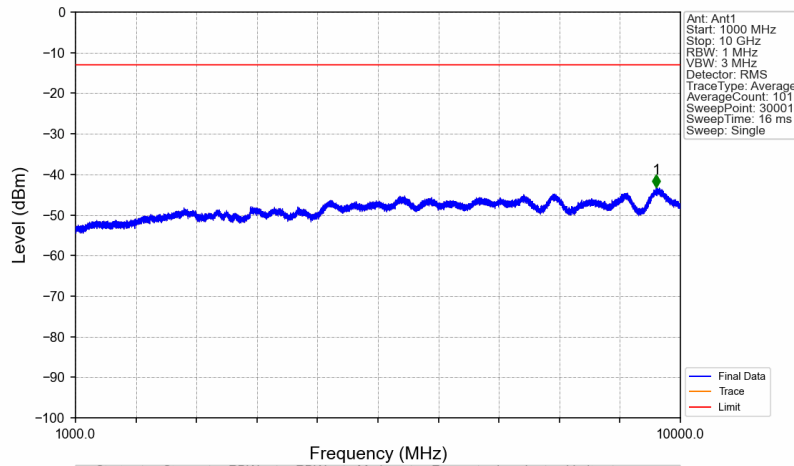
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Band12_737.5MHz_GMSK_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor (dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	0.1	0	1	435.654	-61.05	-13	Pass
1000	1000	0.1	0	1	/	/	/	/
1000	1000	0.1	0	2	781.103	-60.40	-13	Pass

Band12_737.5MHz_GMSK_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor (dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	10000	1	0	1	9640.900	-43.26	-13	Pass



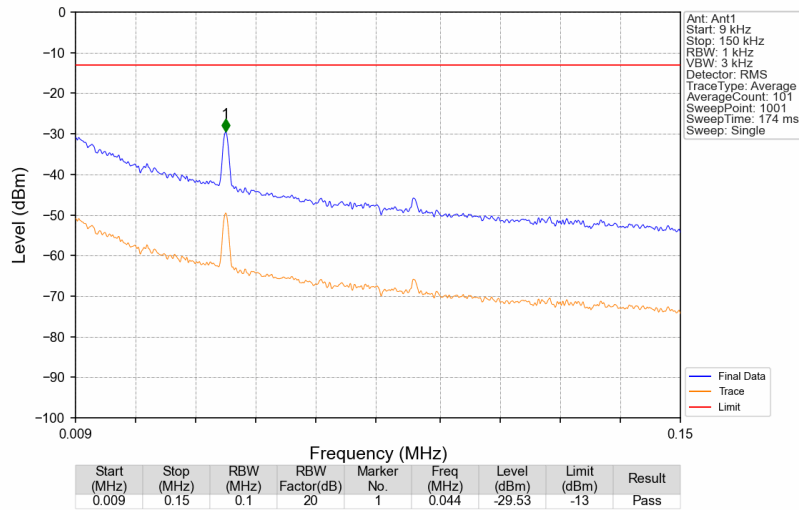
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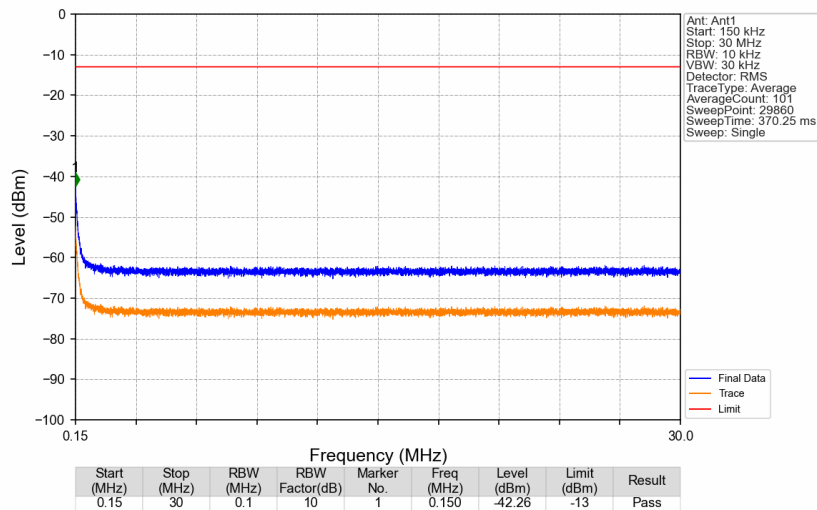
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Band12_745.9MHz_GMSK_SISO_Ant1_NTNV



Band12_745.9MHz_GMSK_SISO_Ant1_NTNV



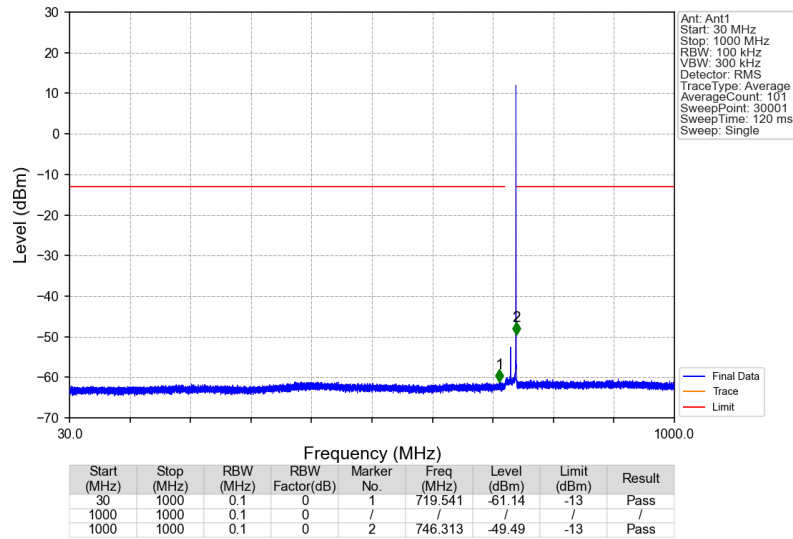
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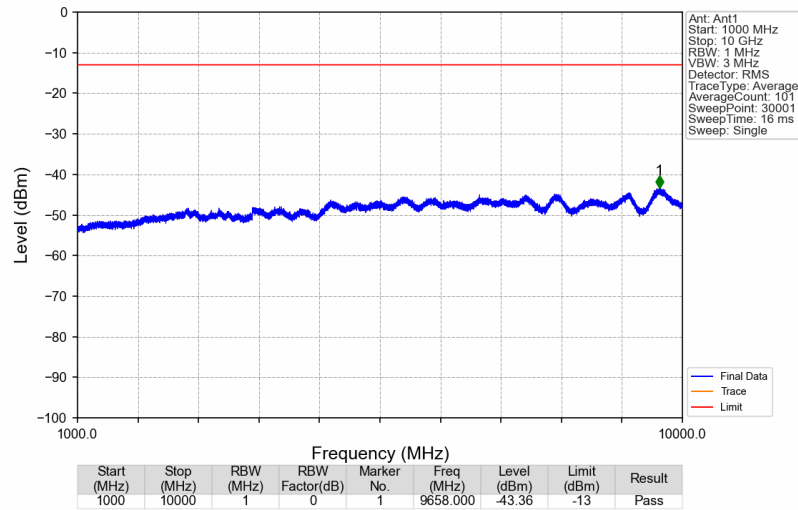
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Band12_745.9MHz_GMSK_SISO_Ant1_NTNV



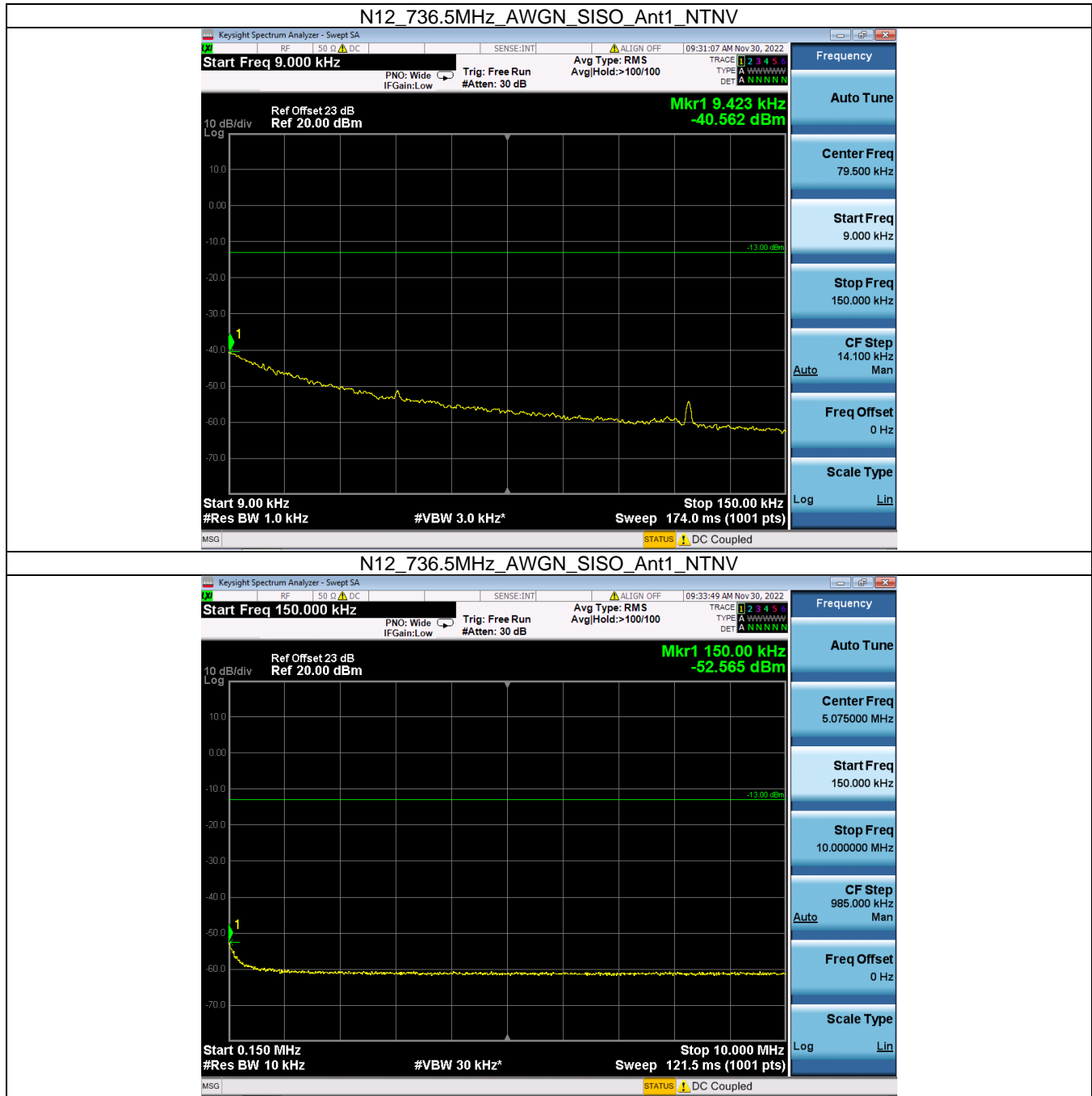
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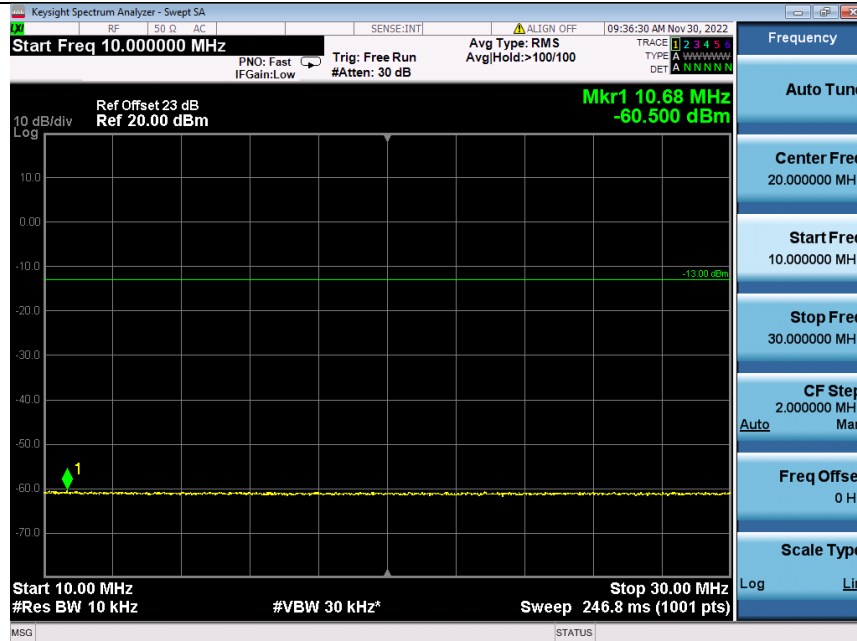
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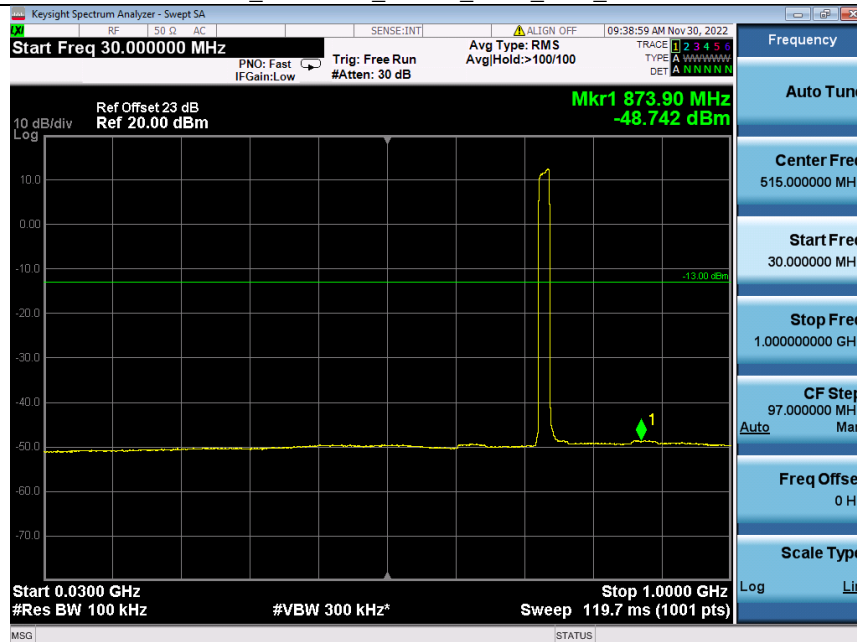
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N12_736.5MHz_AWGN_SISO_Ant1_NTNV



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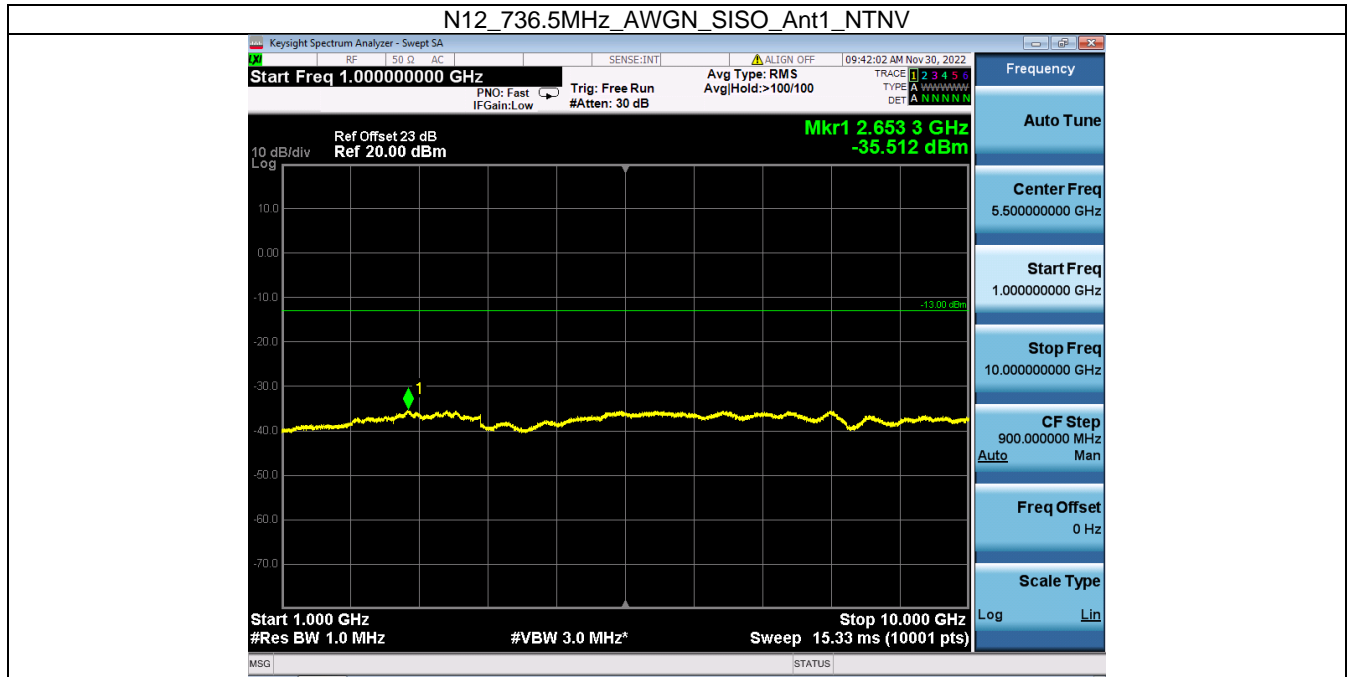


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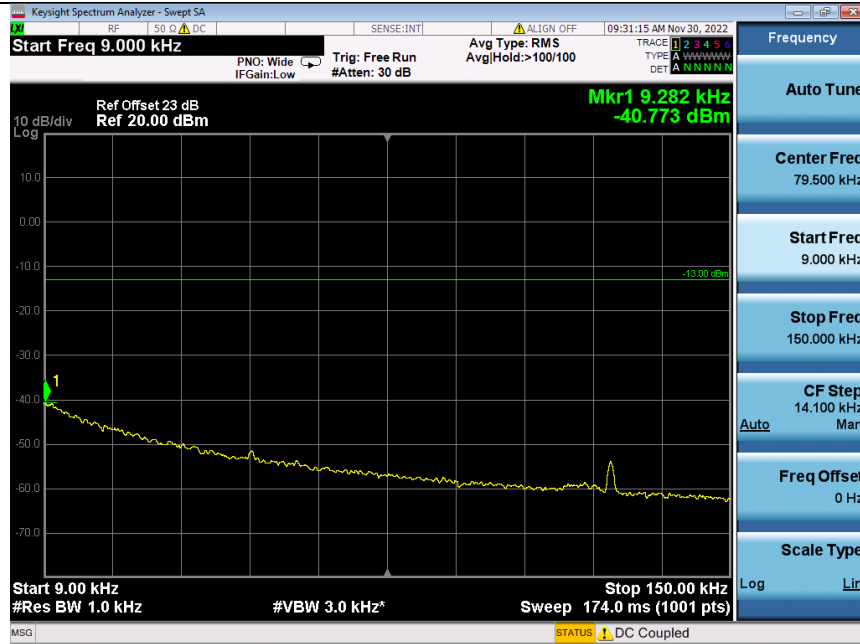
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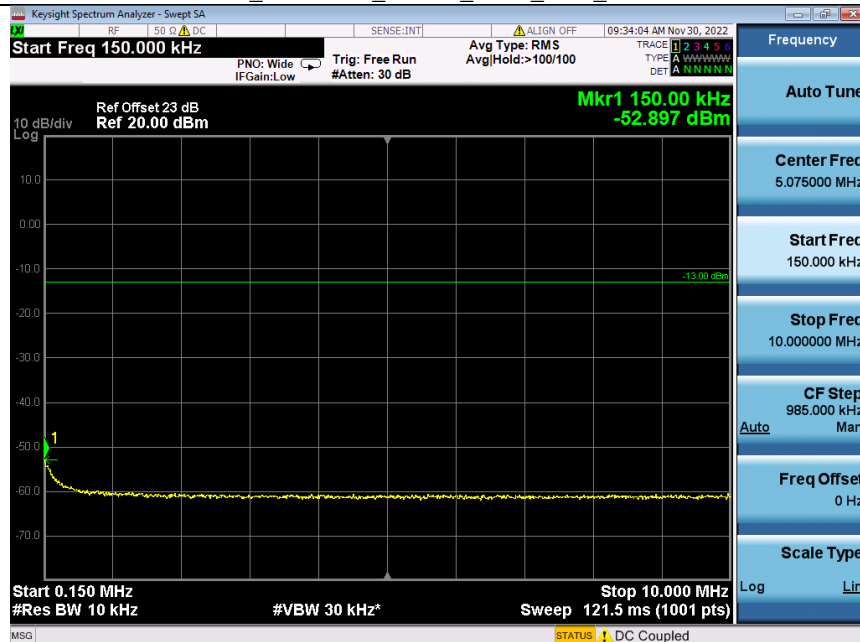
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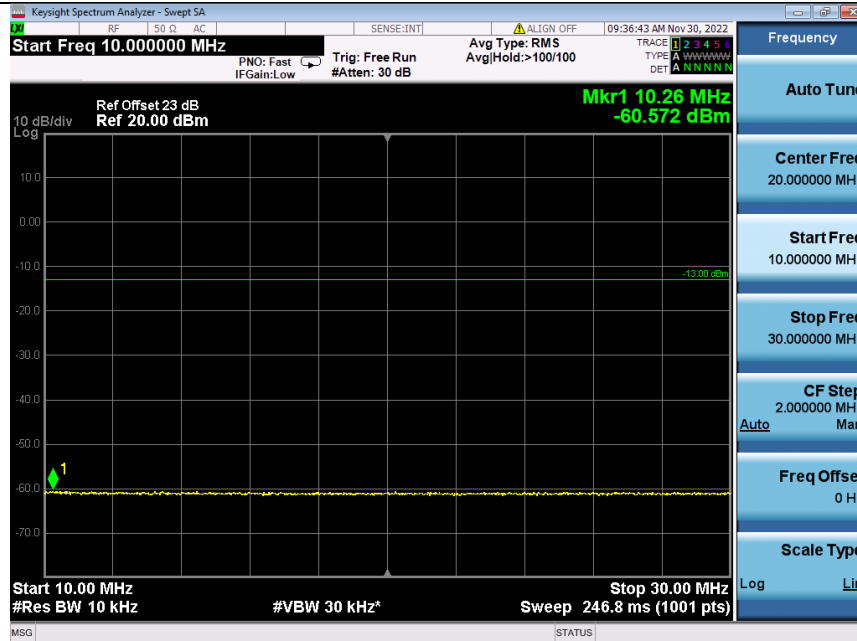
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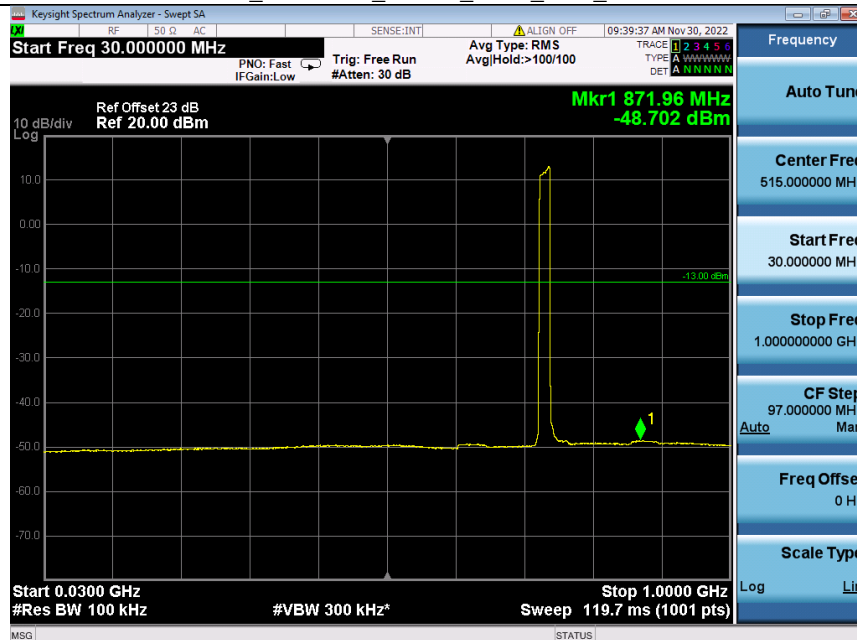
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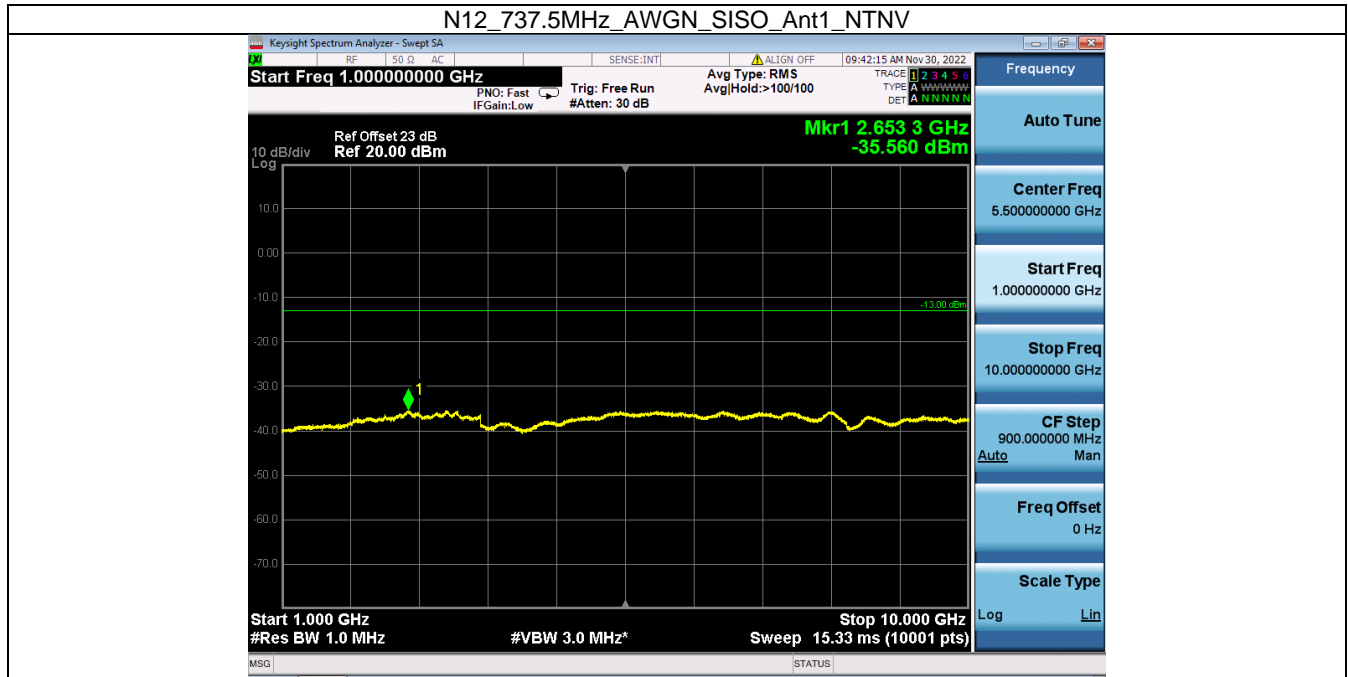
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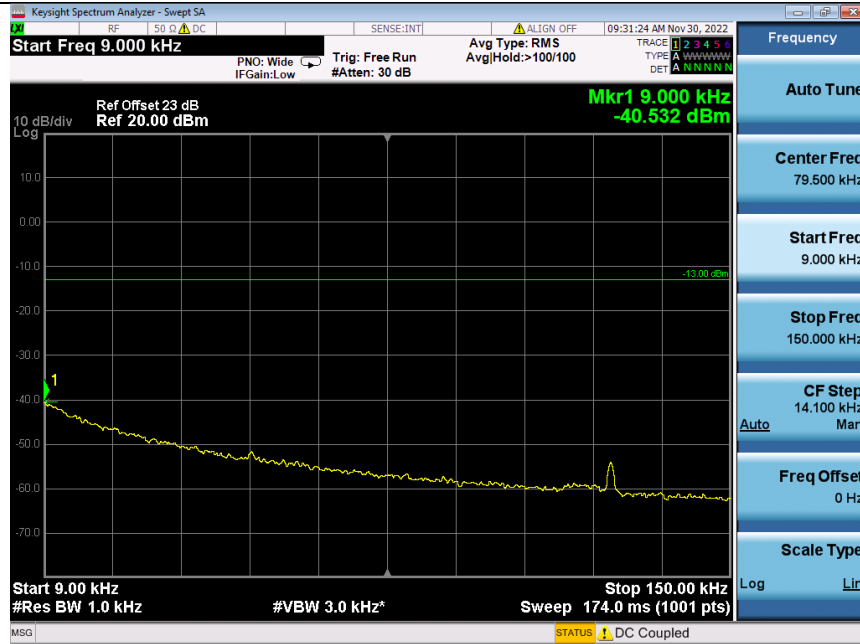
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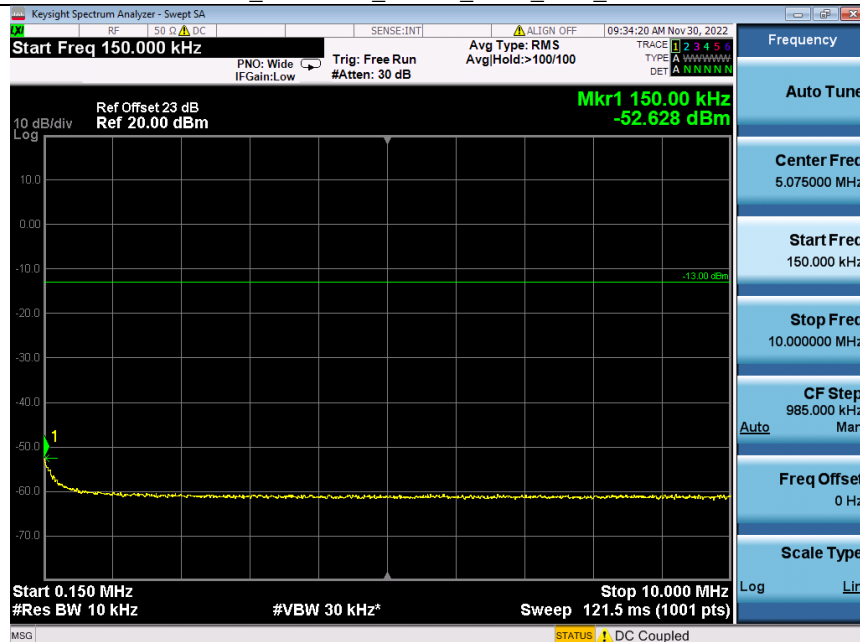


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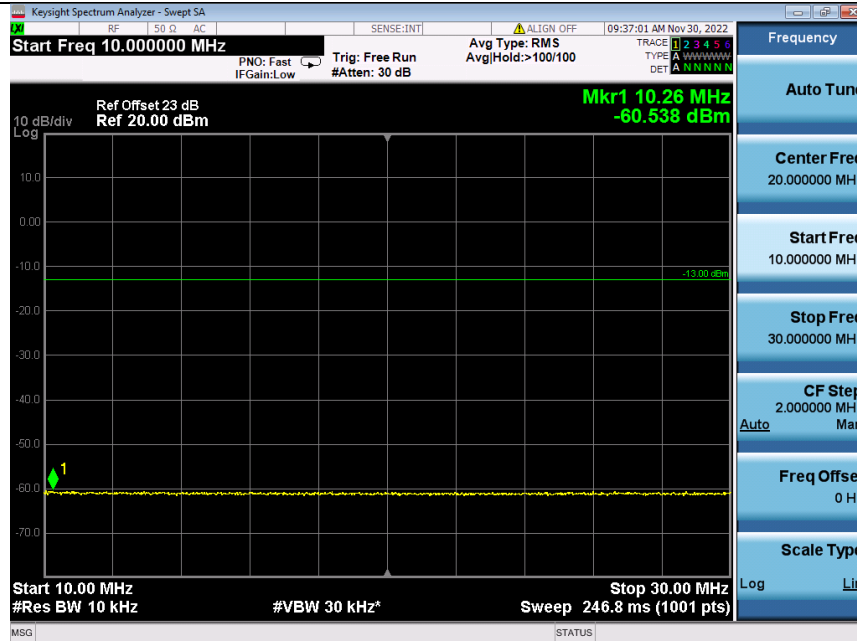
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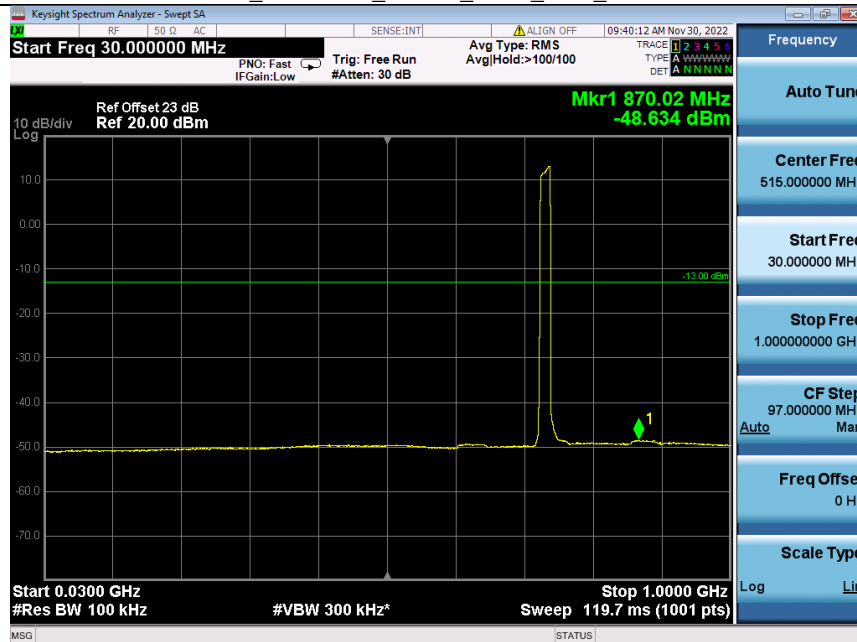
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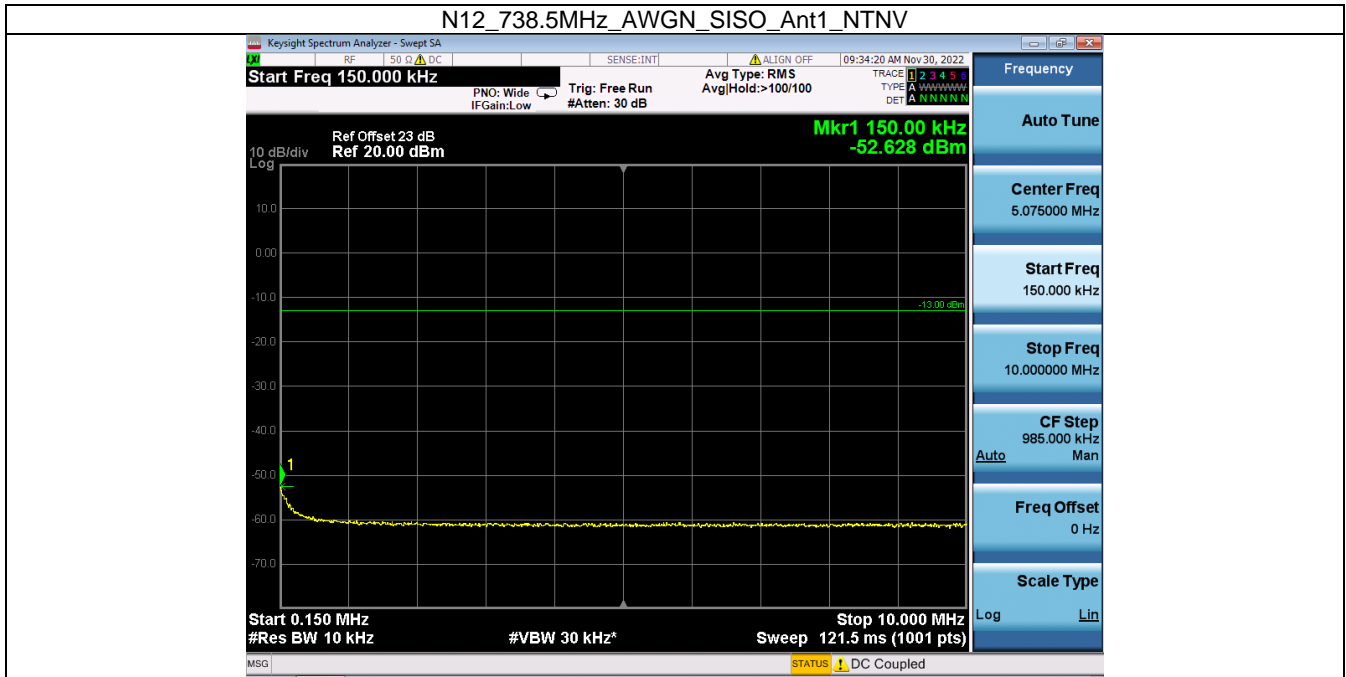
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7. Frequency stability measurements

7.1 Band12_Ant1

7.1.1 Test Result

Band: 12 / NTV								
Type	Signal		Temp (°C)	Voltage (VAC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict	
	Level (dBm)	Frequency (MHz)						
CW	0.3	729.1	20	102	0	0.00	Pass	
				120	0	0.00	Pass	
				138	0	0.00	Pass	
			-40	120	0	0.00	Pass	
				-30	120	0	0.00	Pass
					120	0	0.00	Pass
			-20	120	0	0.00	Pass	
				-10	120	0	0.00	Pass
			0	120	0	0.00	Pass	
				10	120	0	0.00	Pass
				30	120	0	0.00	Pass
				40	120	0	0.00	Pass
		55		120	0	0.00	Pass	
		737.5		20	102	0	0.00	Pass
			120		0	0.00	Pass	
			138		0	0.00	Pass	
			-40	120	0	0.00	Pass	
				-30	120	0	0.00	Pass
					120	0	0.00	Pass
			-20	120	0	0.00	Pass	
				-10	120	0	0.00	Pass
			0	120	0	0.00	Pass	
				10	120	0	0.00	Pass
				30	120	0	0.00	Pass
				40	120	0	0.00	Pass
		55		120	0	0.00	Pass	
		745.9		20	102	0	0.00	Pass
			120		0	0.00	Pass	
			138		0	0.00	Pass	
			-40	120	0	0.00	Pass	
-30	120			0	0.00	Pass		
	120			0	0.00	Pass		
-20	120		0	0.00	Pass			
	-10		120	0	0.00	Pass		
0	120		0	0.00	Pass			
	10		120	0	0.00	Pass		
	30		120	0	0.00	Pass		
	40		120	0	0.00	Pass		
	55	120	0	0.00	Pass			



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8. Radiated Spurious Emissions

8.1 Band12_Ant1

8.1.1 Test Result

For LTE Band 12

AWGN_Low channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
374.3	Horizontal	-67.56	-13	-54.56	pass
563.5	Horizontal	-65.84	-13	-52.84	pass
960.8	Horizontal	-61.49	-13	-48.49	pass
1342.4	Horizontal	-60.07	-13	-47.07	pass
2774.0	Horizontal	-52.37	-13	-39.37	pass
6296.3	Horizontal	-47.47	-13	-34.47	pass
369.3	Vertical	-56.35	-13	-43.35	pass
578.9	Vertical	-52.80	-13	-39.80	pass
956.1	Vertical	-48.29	-13	-35.29	pass
1374.0	Vertical	-65.56	-13	-52.56	pass
2763.8	Vertical	-60.95	-13	-47.95	pass
6320.0	Vertical	-56.64	-13	-43.64	pass

AWGN_Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
378.6	Horizontal	-67.15	-13	-54.15	pass
575.1	Horizontal	-64.95	-13	-51.95	pass
931.5	Horizontal	-56.38	-13	-43.38	pass
1349.0	Horizontal	-58.55	-13	-45.55	pass
2760.1	Horizontal	-54.54	-13	-41.54	pass
6303.4	Horizontal	-49.15	-13	-36.15	pass
356.6	Vertical	-58.48	-13	-45.48	pass
609.3	Vertical	-54.67	-13	-41.67	pass
929.4	Vertical	-51.72	-13	-38.72	pass
1344.9	Vertical	-70.06	-13	-57.06	pass
2758.8	Vertical	-65.75	-13	-52.75	pass
6311.4	Vertical	-63.48	-13	-50.48	pass

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AWGN_High channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
387.9	Horizontal	-69.68	-13	-56.68	pass
600.1	Horizontal	-62.68	-13	-49.68	pass
934.8	Horizontal	-58.75	-13	-45.75	pass
1372.7	Horizontal	-61.22	-13	-48.22	pass
2739.3	Horizontal	-52.15	-13	-39.15	pass
6313.0	Horizontal	-50.38	-13	-37.38	pass
357.7	Vertical	-61.41	-13	-48.41	pass
577.5	Vertical	-54.38	-13	-41.38	pass
938.6	Vertical	-53.04	-13	-40.04	pass
1363.0	Vertical	-67.22	-13	-54.22	pass
2744.2	Vertical	-61.71	-13	-48.71	pass
6286.4	Vertical	-59.54	-13	-46.54	pass

GMSK_Low channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
369.6	Horizontal	-67.86	-13	-54.86	pass
586.4	Horizontal	-66.07	-13	-53.07	pass
941.9	Horizontal	-58.44	-13	-45.44	pass
1359.9	Horizontal	-58.37	-13	-45.37	pass
2729.1	Horizontal	-50.18	-13	-37.18	pass
6276.3	Horizontal	-46.17	-13	-33.17	pass
375.0	Vertical	-60.36	-13	-47.36	pass
589.4	Vertical	-54.45	-13	-41.45	pass
937.0	Vertical	-46.09	-13	-33.09	pass
1373.6	Vertical	-68.48	-13	-55.48	pass
2762.6	Vertical	-66.41	-13	-53.41	pass
6293.1	Vertical	-60.14	-13	-47.14	pass



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GMSK_Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
377.5	Horizontal	-67.00	-13	-54.00	pass
571.7	Horizontal	-60.29	-13	-47.29	pass
941.4	Horizontal	-56.37	-13	-43.37	pass
1336.3	Horizontal	-58.83	-13	-45.83	pass
2739.7	Horizontal	-55.84	-13	-42.84	pass
6287.0	Horizontal	-47.68	-13	-34.68	pass
358.8	Vertical	-61.50	-13	-48.50	pass
572.9	Vertical	-55.46	-13	-42.46	pass
927.3	Vertical	-49.14	-13	-36.14	pass
1332.0	Vertical	-71.29	-13	-58.29	pass
2752.5	Vertical	-67.73	-13	-54.73	pass
6305.8	Vertical	-61.01	-13	-48.01	pass

GMSK_High channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
395.0	Horizontal	-68.49	-13	-55.49	pass
596.5	Horizontal	-61.12	-13	-48.12	pass
959.2	Horizontal	-55.84	-13	-42.84	pass
1370.2	Horizontal	-62.51	-13	-49.51	pass
2761.5	Horizontal	-50.85	-13	-37.85	pass
6307.6	Horizontal	-50.20	-13	-37.20	pass
404.6	Vertical	-72.84	-13	-59.84	pass
610.1	Vertical	-62.00	-13	-49.00	pass
933.1	Vertical	-60.74	-13	-47.74	pass
1365.5	Vertical	-62.67	-13	-49.67	pass
2756.6	Vertical	-55.65	-13	-42.65	pass
6277.5	Vertical	-51.70	-13	-38.70	pass



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For 5GNR N12

AWGN_Low channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
410.5	Horizontal	-71.48	-13	-58.48	pass
604.9	Horizontal	-64.32	-13	-51.32	pass
946.0	Horizontal	-59.37	-13	-46.37	pass
1359.9	Horizontal	-56.06	-13	-43.06	pass
2729.3	Horizontal	-53.62	-13	-40.62	pass
6309.3	Horizontal	-48.86	-13	-35.86	pass
386.4	Vertical	-67.83	-13	-54.83	pass
561.8	Vertical	-64.05	-13	-51.05	pass
944.8	Vertical	-57.47	-13	-44.47	pass
1347.1	Vertical	-58.78	-13	-45.78	pass
2746.6	Vertical	-51.72	-13	-38.72	pass
6321.9	Vertical	-52.00	-13	-39.00	pass

AWGN_Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
367.7	Horizontal	-68.05	-13	-55.05	pass
564.4	Horizontal	-65.79	-13	-52.79	pass
955.2	Horizontal	-59.49	-13	-46.49	pass
1351.9	Horizontal	-61.96	-13	-48.96	pass
2751.2	Horizontal	-55.06	-13	-42.06	pass
6283.6	Horizontal	-47.26	-13	-34.26	pass
386.8	Vertical	-66.61	-13	-53.61	pass
587.1	Vertical	-65.61	-13	-52.61	pass
971.2	Vertical	-56.57	-13	-43.57	pass
1327.8	Vertical	-60.57	-13	-47.57	pass
2758.0	Vertical	-53.18	-13	-40.18	pass
6313.9	Vertical	-49.79	-13	-36.79	pass

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AWGN_High channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization	dBm	dB	
392.7	Horizontal	-68.47	-13	-55.47	pass
609.9	Horizontal	-61.03	-13	-48.03	pass
942.4	Horizontal	-60.28	-13	-47.28	pass
1329.6	Horizontal	-59.13	-13	-46.13	pass
2755.1	Horizontal	-54.91	-13	-41.91	pass
6298.5	Horizontal	-50.19	-13	-37.19	pass
399.1	Vertical	-70.41	-13	-57.41	pass
561.2	Vertical	-65.61	-13	-52.61	pass
957.7	Vertical	-59.14	-13	-46.14	pass
1346.1	Vertical	-60.31	-13	-47.31	pass
2730.6	Vertical	-53.07	-13	-40.07	pass
6285.0	Vertical	-51.06	-13	-38.06	pass



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