

Appendix A for KSCR2209001814AT-FCC-Booster-NR13

1. Out of band rejection

1.1 Band13

1.1.1 Test Result

Band: 13 / NTN							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	726 - 776	SISO	1	748.550	745.750	756.300	Pass

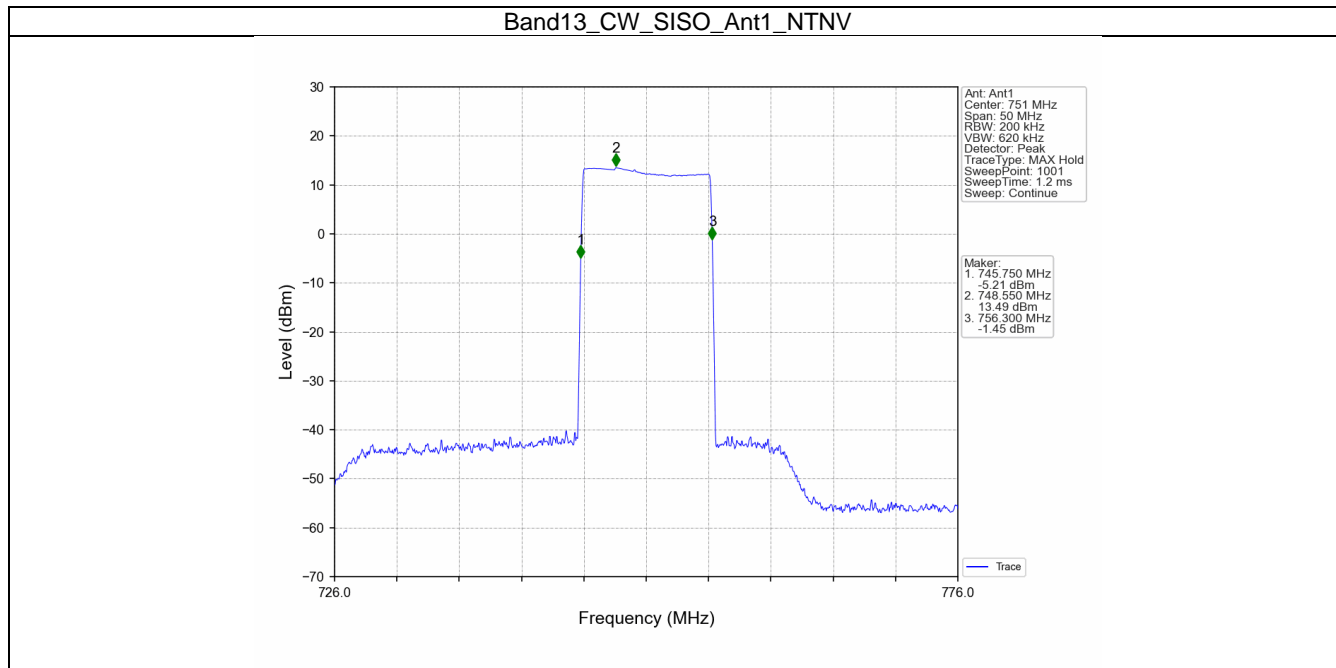
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1.1.2 Test Graph



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2. AGC threshold

2.1 Band13

2.1.1 Test Result

Band: 13 / NTV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
AWGN	748.55	SISO	1	-2.20	Pass
GMSK	748.55	SISO	1	-1.20	Pass



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3. Input-versus-output signal comparison

3.1 Band13_OBW

3.1.1 Test Result

Band: 13 / NTV							
Type	Signal		TX Type	ANT	99% OBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	0.8	748.55	SISO	1	4.533	4.537	Pass
	-2.2	748.55	SISO	1	4.522	4.534	Pass
GMSK	1.8	748.55	SISO	1	0.244	0.243	Pass
	-1.2	748.55	SISO	1	0.244	0.245	Pass



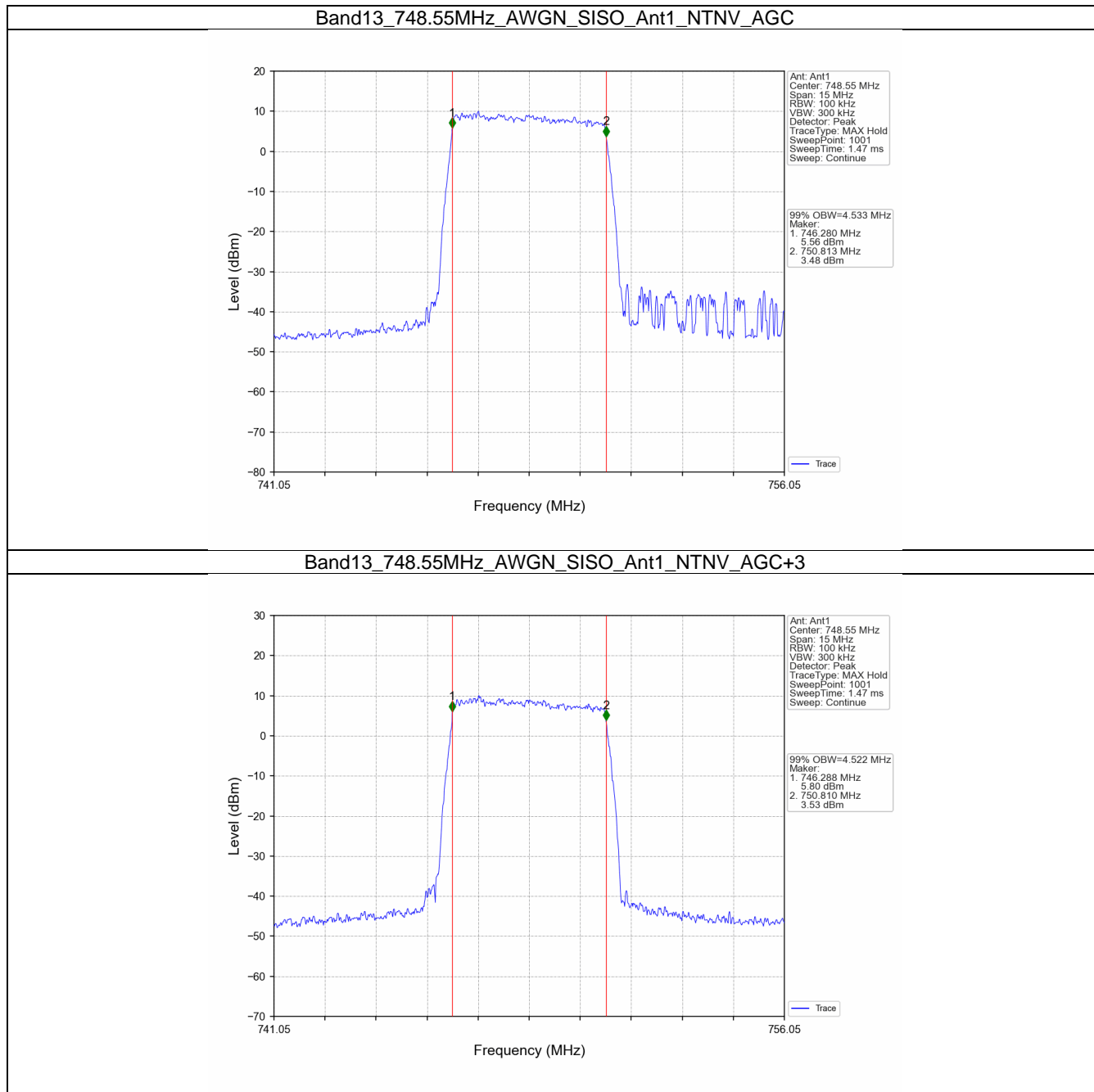
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3.1.2 Test Graph



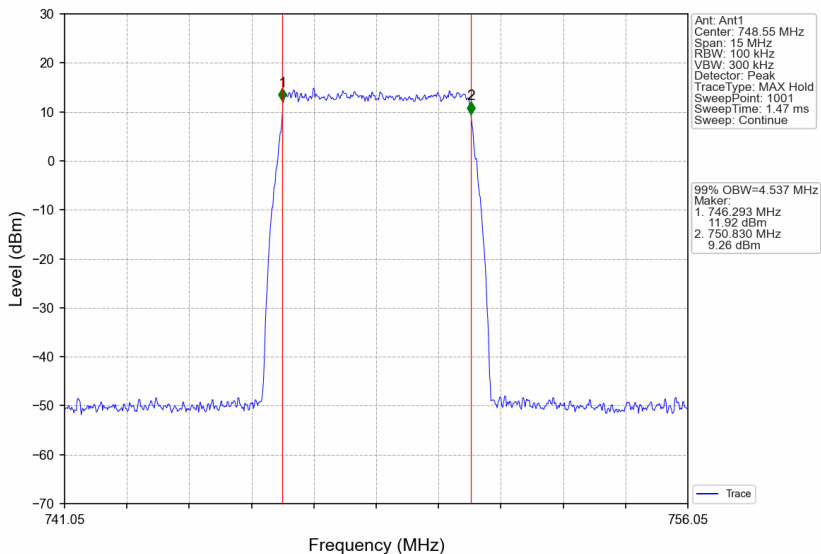
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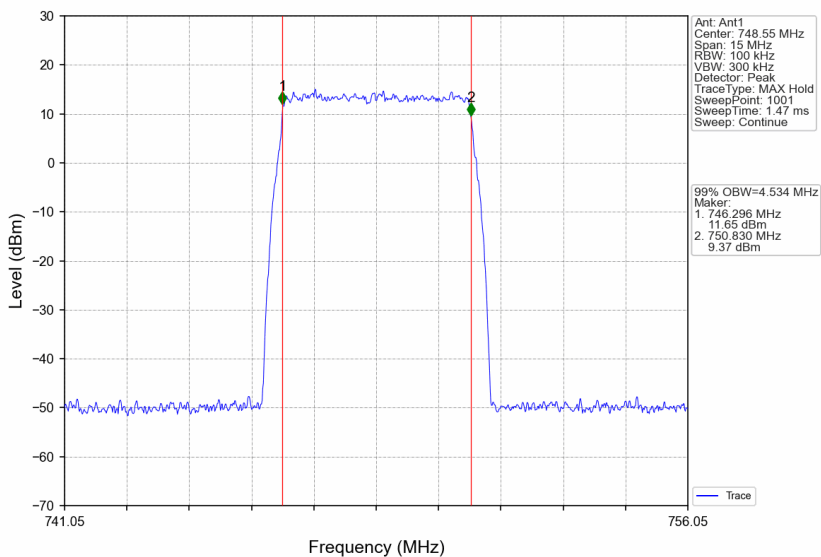
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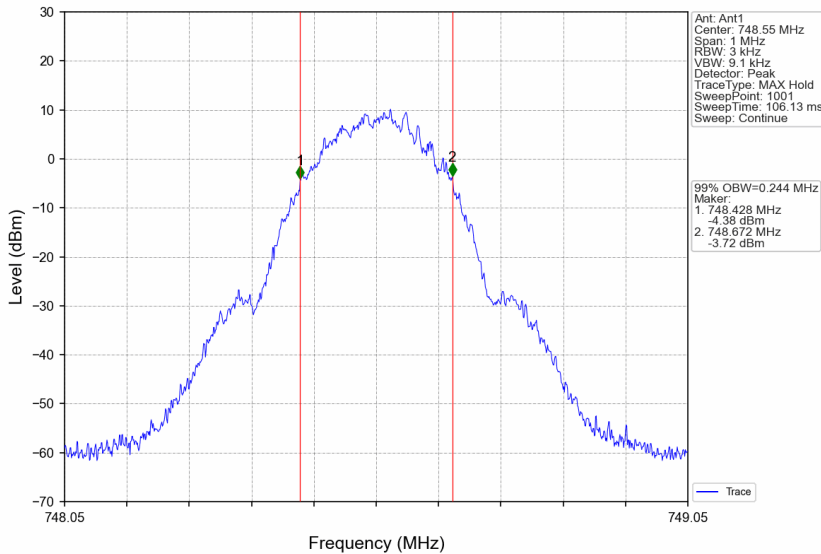
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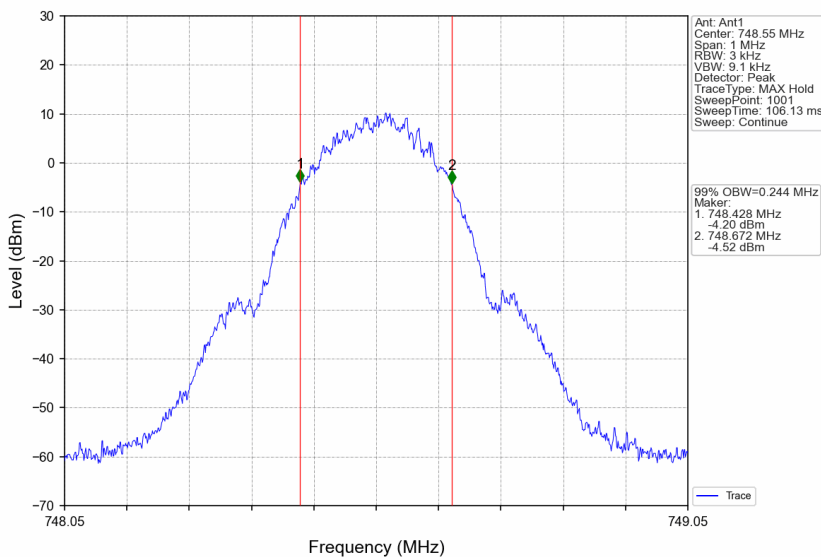
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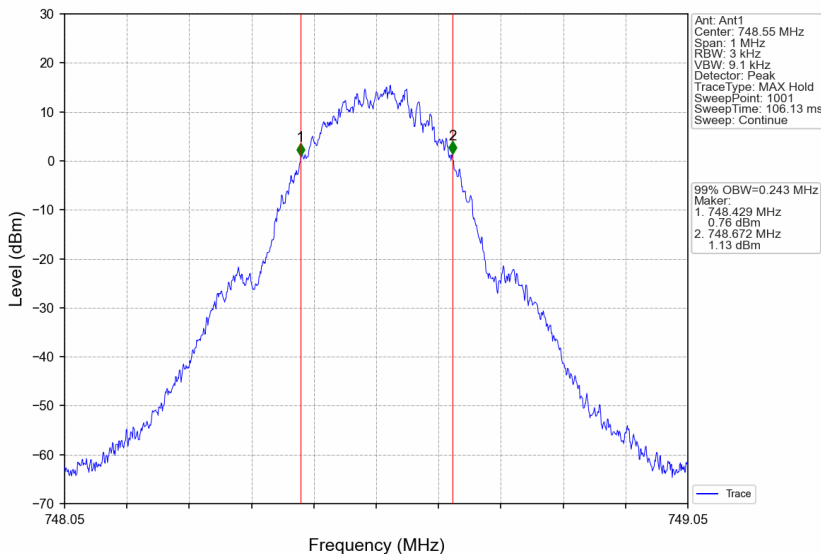
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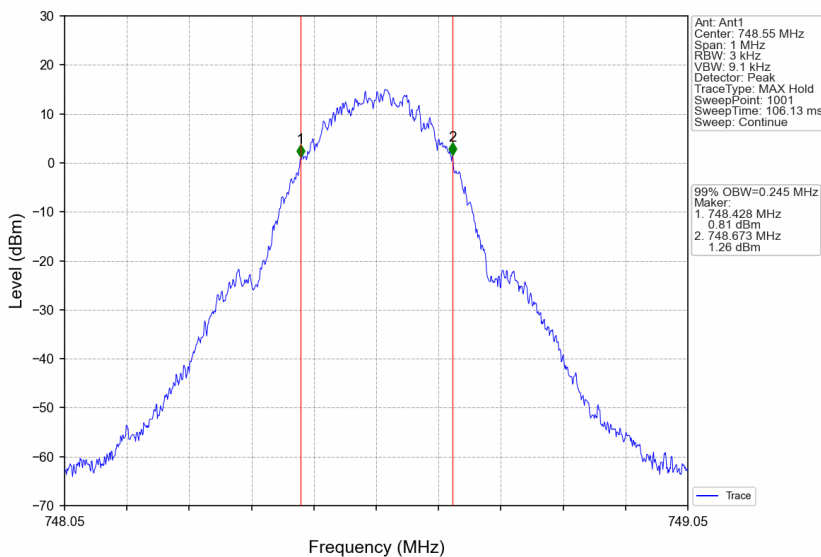
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3.2 Band13_EBW

3.2.1 Test Result

Band: 13 / NTNV							
Type	Signal		TX Type	ANT	26dB EBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	0.8	748.55	SISO	1	5.032	5.076	Pass
	-2.2	748.55	SISO	1	5.045	5.057	Pass
GMSK	1.8	748.55	SISO	1	0.312	0.314	Pass
	-1.2	748.55	SISO	1	0.317	0.312	Pass



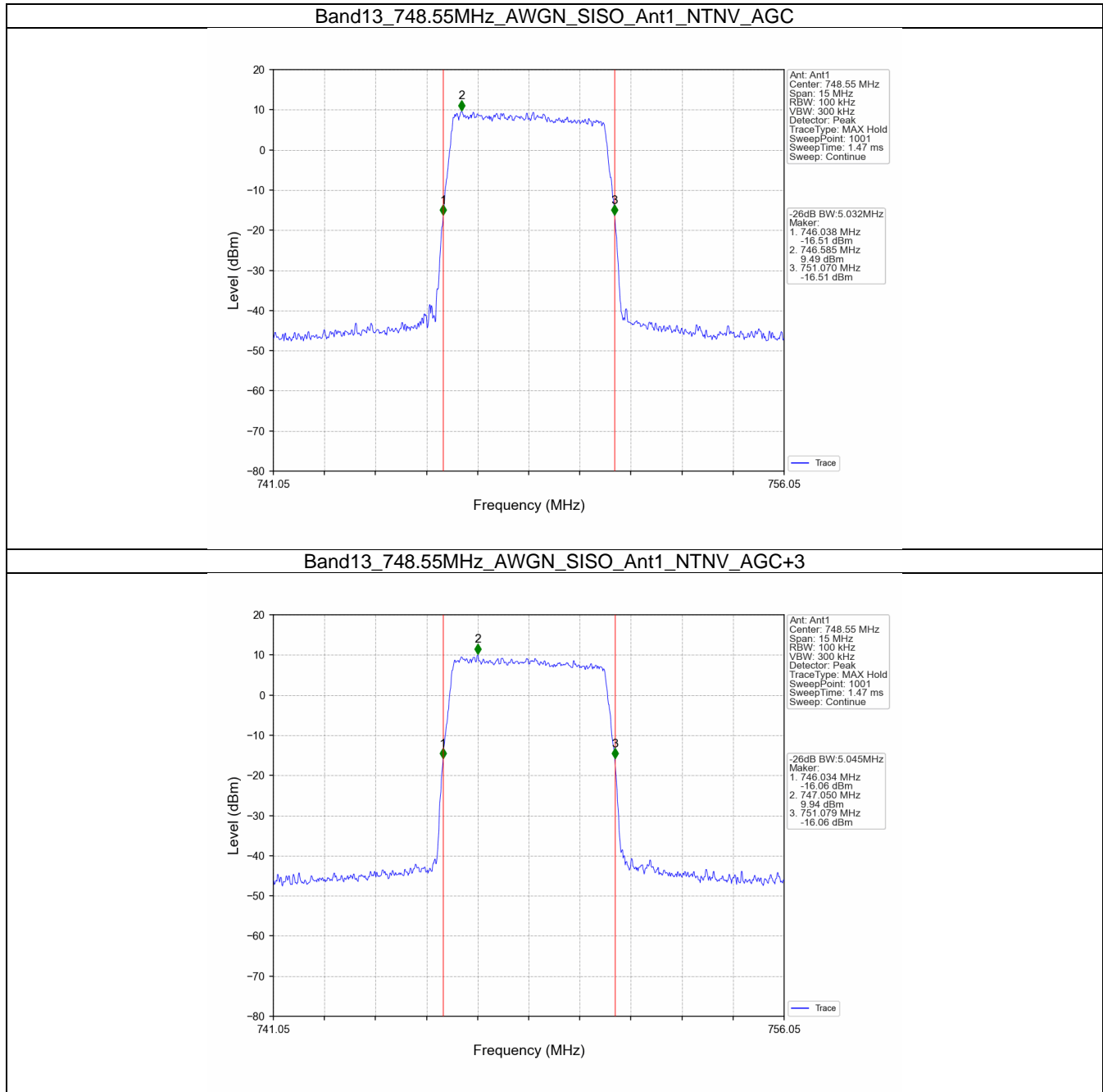
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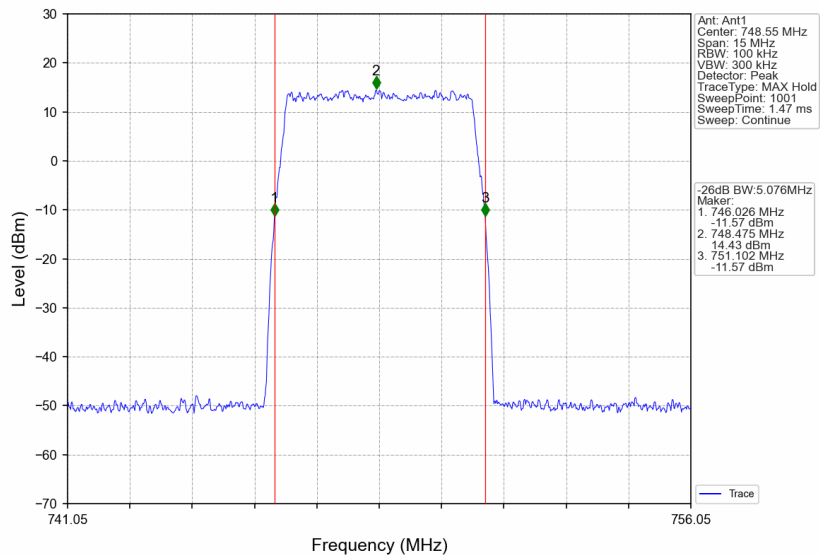
3.2.2 Test Graph



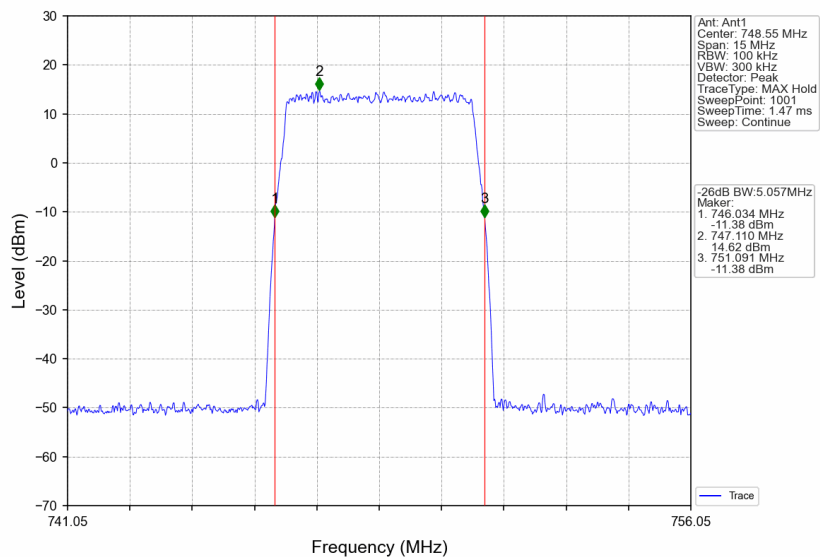
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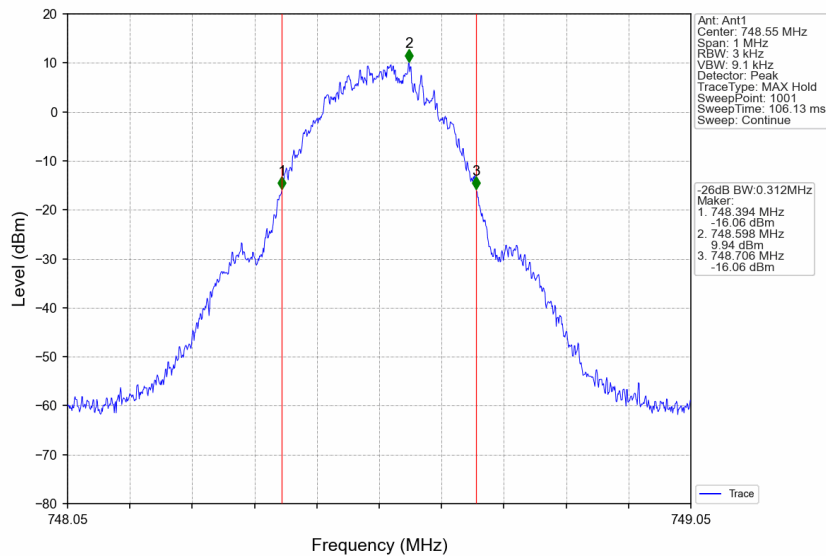
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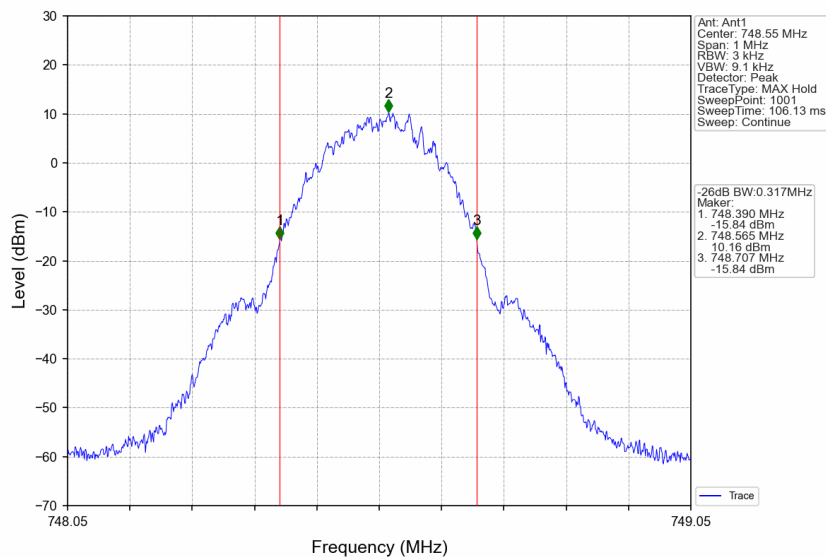
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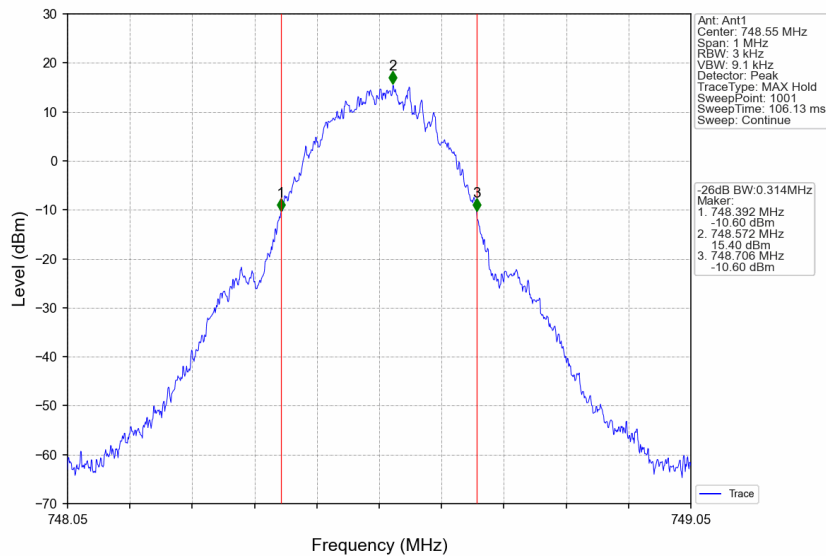
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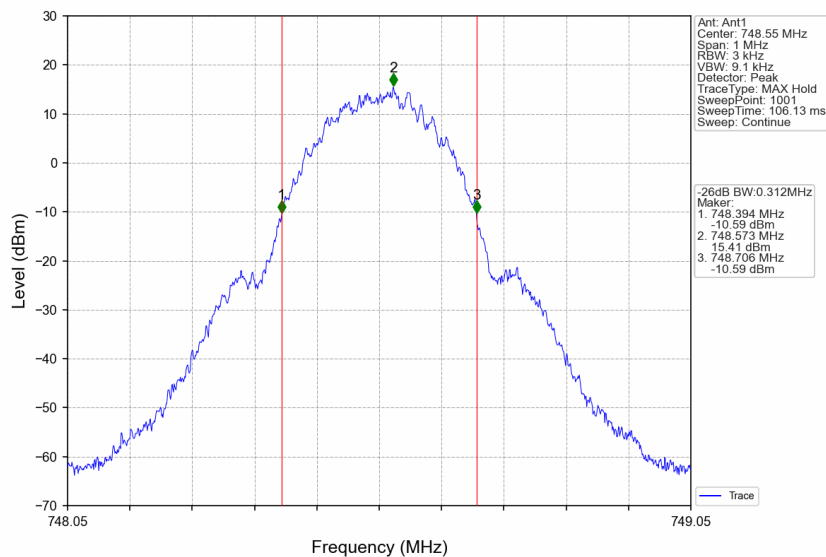
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4. Input/output power and amplifier/booster gain

4.1 Band13_ERP

4.1.1 Test Result

Band: 13 / NTV										
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	-2.2	748.55	SISO	1	10.32	-6.98	10.60	<=60	17.30	Pass
	0.8	748.55	SISO	1	10.92	-3.94	11.20	<=60	/	Pass
GMSK	-1.2	748.55	SISO	1	17.18	0.10	17.46	<=60	17.08	Pass
	1.8	748.55	SISO	1	17.47	3.09	17.75	<=60	/	Pass

746MHz-756MHz / NTV											
Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Total Output Power (dBm/MHz)			ERP(dBm/MHz)			Gain (dB)
					SISO	2X2 MIMO	4X4 MIMO	SISO	2X2 MIMO	4X4 MIMO	
MIMO mode											
746MHz-756MHz	748.550	AWGN	Pre-AGC	-2.2	10.32	13.33	16.34	10.60	13.61	16.62	/
			3dB Above AGC	0.8	10.92	13.93	16.94	11.20	14.21	17.22	/
	748.550	GMSK	Pre-AGC	-1.2	17.18	20.19	23.20	17.46	20.47	23.48	/
			3dB Above AGC	1.8	17.47	20.48	23.49	17.75	20.76	23.77	/

746MHz-756MHz / NTV											
Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Total Output Power (dBm)			ERP(dBm)			Gain (dB)
					SISO	2X2 MIMO	4X4 MIMO	SISO	2X2 MIMO	4X4 MIMO	
MIMO mode											
746MHz-756MHz	748.550	AWGN	Pre-AGC	-2.2	17.30	20.31	23.32	17.58	20.59	23.60	/
			3dB Above AGC	0.8	17.90	20.91	23.92	18.18	21.19	24.20	/
	748.550	GMSK	Pre-AGC	-1.2	17.18	20.19	23.20	17.46	20.47	23.48	/
			3dB Above AGC	1.8	17.47	20.48	23.49	17.75	20.76	23.77	/



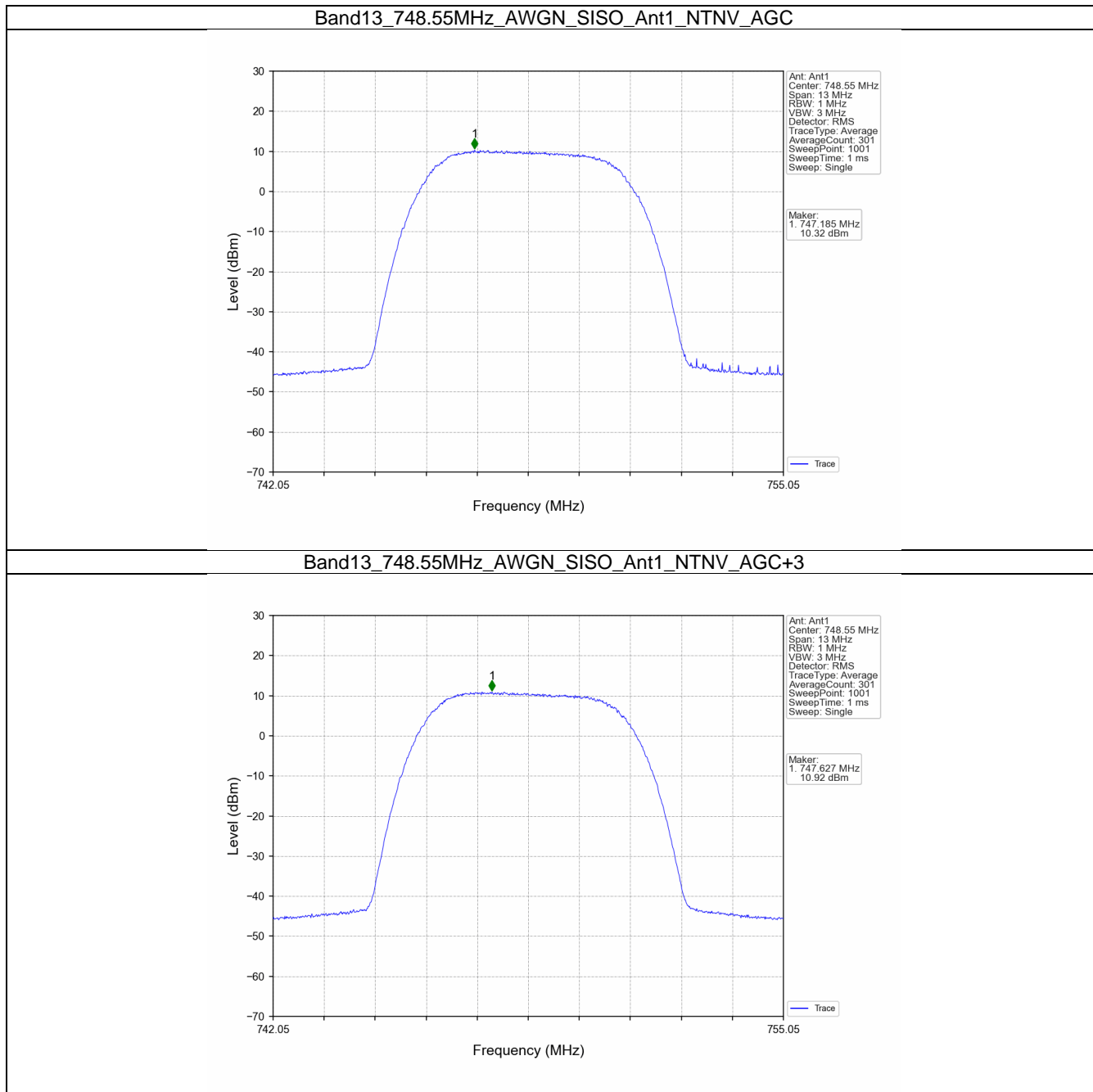
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4.1.2 Test Graph



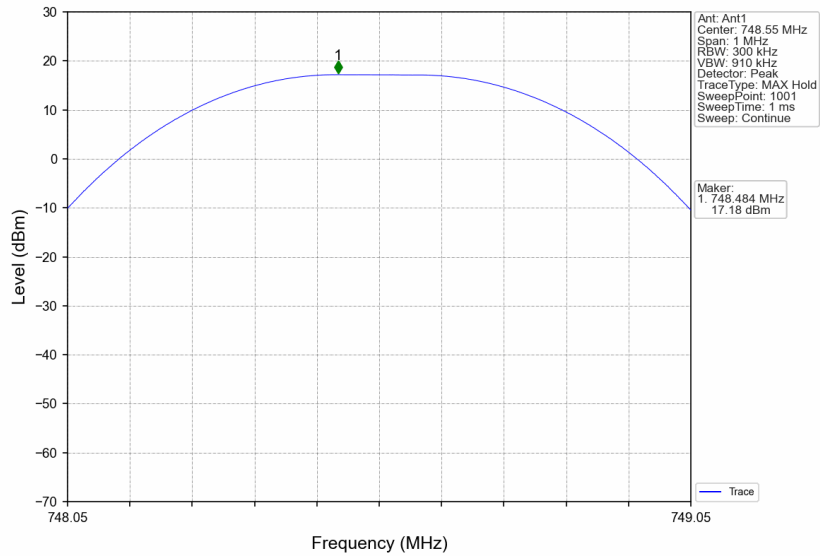
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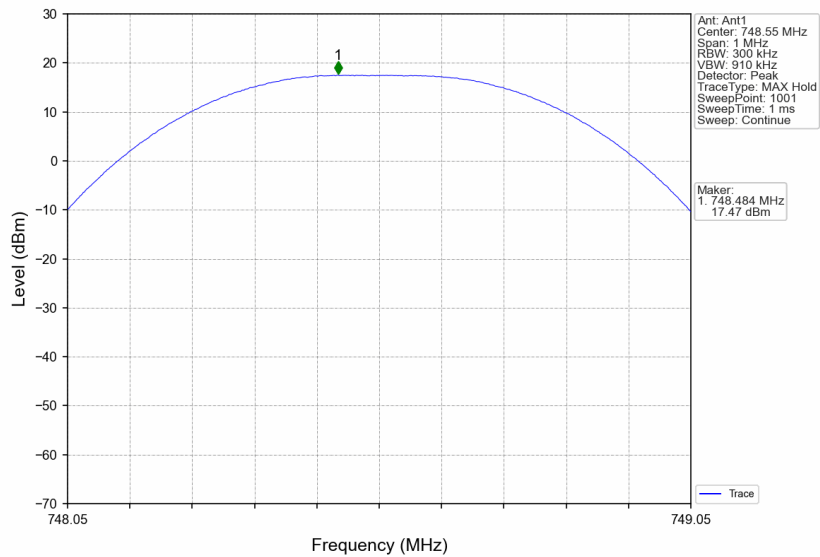
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Band13_748.55MHz_GMSK_SISO_Ant1_NTNV_AGC



Band13_748.55MHz_GMSK_SISO_Ant1_NTNV_AGC+3



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4.2 Band13_PAPR

4.2.1 Test Result

Band: 13 / NTNV							
Type	Signal		TX Type	ANT	PAPR (dB)		Verdict
	Level (dBm)	Frequency (MHz)			Result	Limit	
AWGN	-2.2	748.55	SISO	1	8.30	<=13	Pass
	0.8	748.55	SISO	1	8.27	<=13	Pass
GMSK	-1.2	748.55	SISO	1	0.45	<=13	Pass
	1.8	748.55	SISO	1	0.39	<=13	Pass



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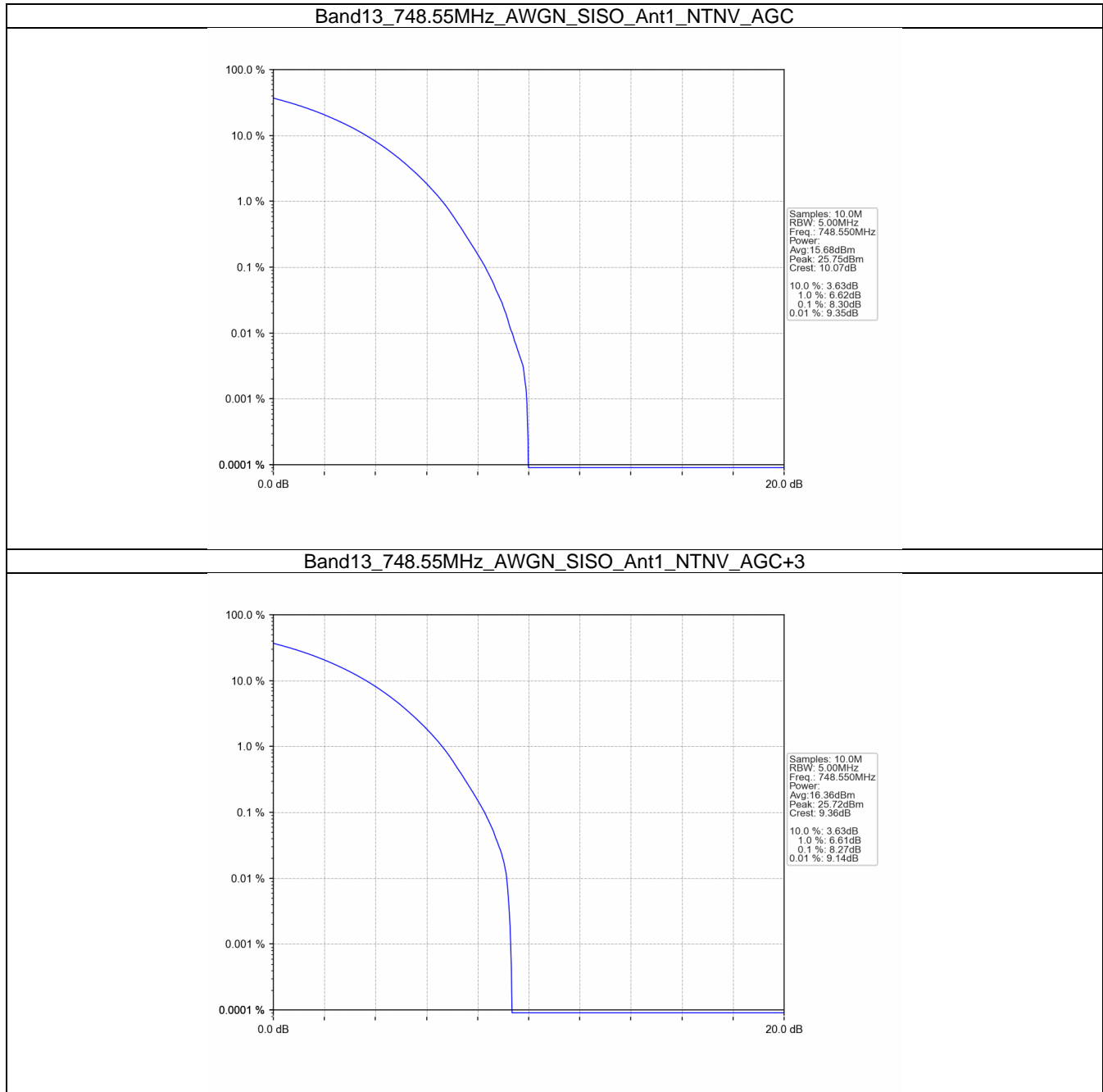
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4.2.2 Test Graph



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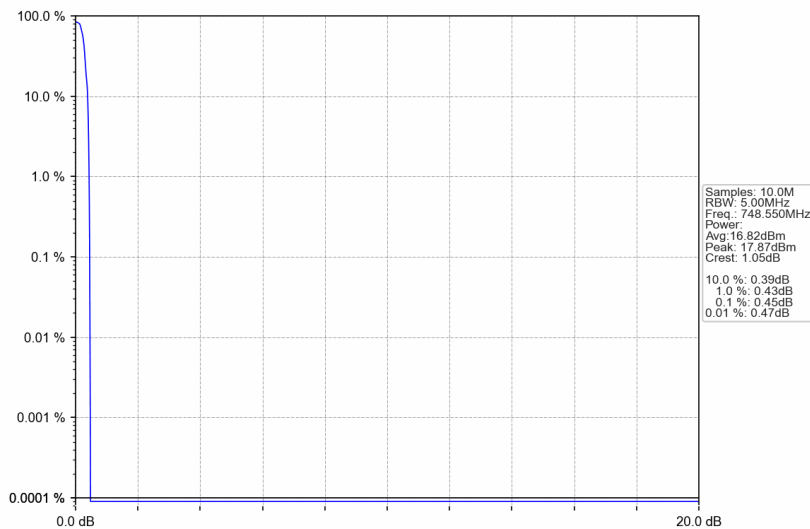
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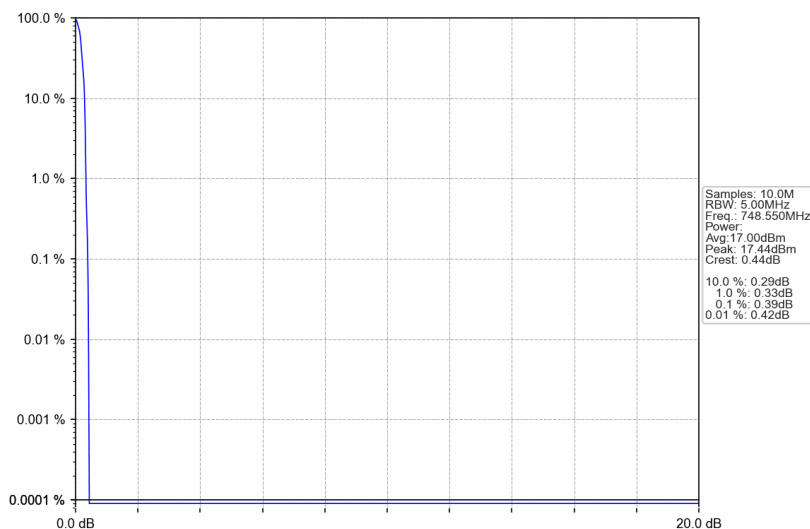
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Band13_748.55MHz_GMSK_SISO_Ant1_NTNV_AGC+3



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

5.1 Band13

5.1.1 Test Result

Band: 13 / NTV									
Signal				Channel	TX Type	ANT	OOB (dBm)		Verdict
Input	Type	Level (dBm)	Frequency (MHz)				Result	Limit	
Two	AWGN	-2.2	748.5	LCH	SISO	1	-81.69	Refer To Test Graph	Pass
		0.8	748.5	LCH	SISO	1	-81.87	Refer To Test Graph	Pass
One	AWGN	-2.2	748.5	LCH	SISO	1	-82.06	Refer To Test Graph	Pass
		0.8	748.5	LCH	SISO	1	-81.66	Refer To Test Graph	Pass
Two	AWGN	-2.2	753.5	HCH	SISO	1	-85.53	Refer To Test Graph	Pass
		0.8	753.5	HCH	SISO	1	-86.05	Refer To Test Graph	Pass
One	AWGN	-2.2	753.5	HCH	SISO	1	-86.15	Refer To Test Graph	Pass
		0.8	753.5	HCH	SISO	1	-85.99	Refer To Test Graph	Pass
Two	GMSK	-1.2	746.1	LCH	SISO	1	-82.10	Refer To Test Graph	Pass
		1.8	746.1	LCH	SISO	1	-81.86	Refer To Test Graph	Pass
One	GMSK	-1.2	746.1	LCH	SISO	1	-82.17	Refer To Test Graph	Pass
		1.8	746.1	LCH	SISO	1	-81.69	Refer To Test Graph	Pass
Two	GMSK	-1.2	755.9	HCH	SISO	1	-85.82	Refer To Test Graph	Pass
		1.8	755.9	HCH	SISO	1	-85.76	Refer To Test Graph	Pass
One	GMSK	-1.2	755.9	HCH	SISO	1	-85.88	Refer To Test Graph	Pass
		1.8	755.9	HCH	SISO	1	-85.81	Refer To Test Graph	Pass

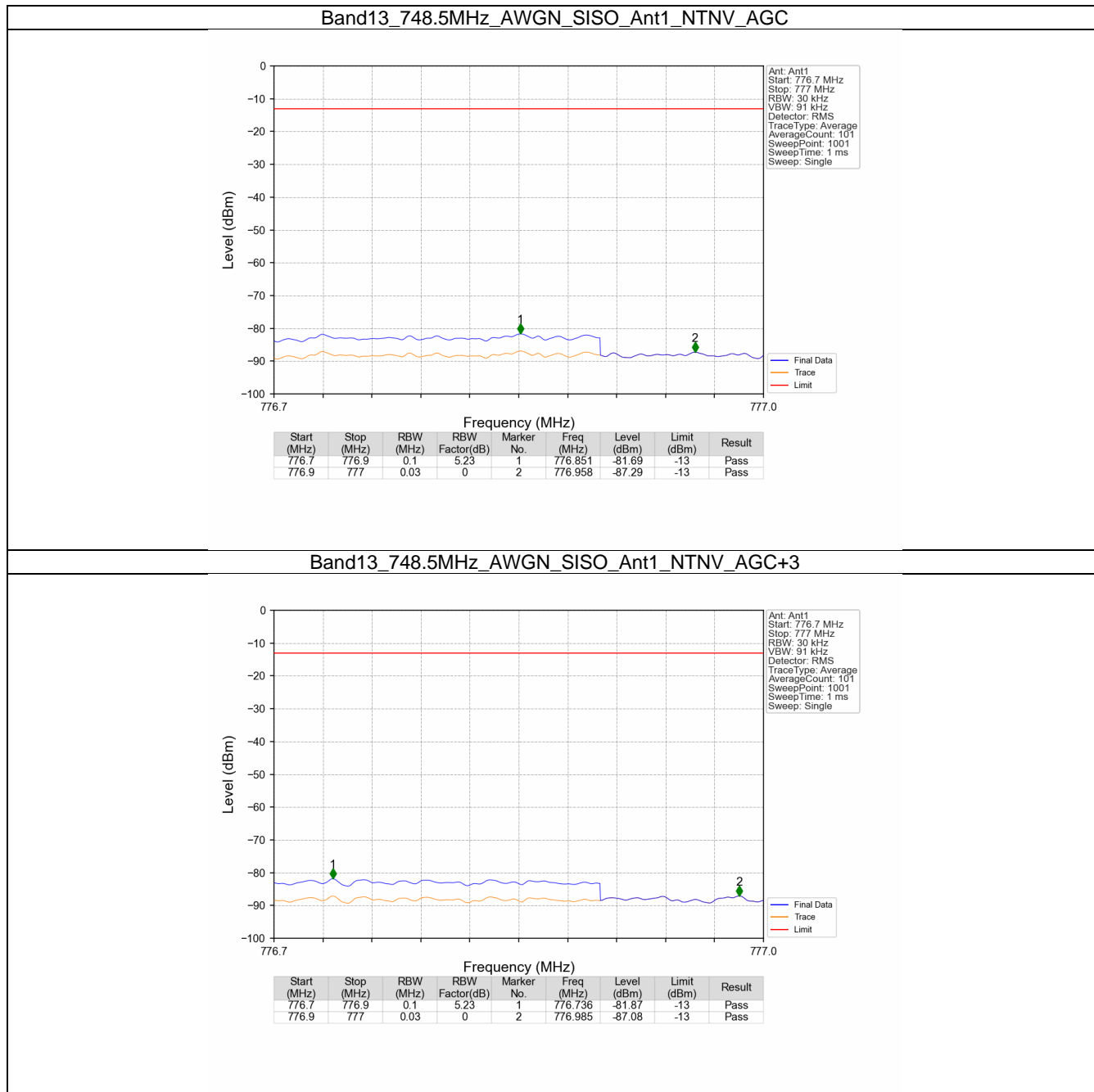


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5.1.2 Test Graph

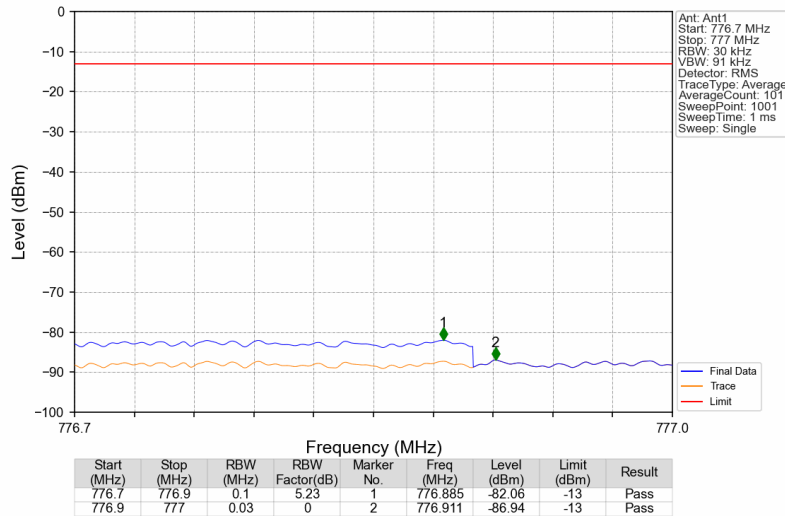


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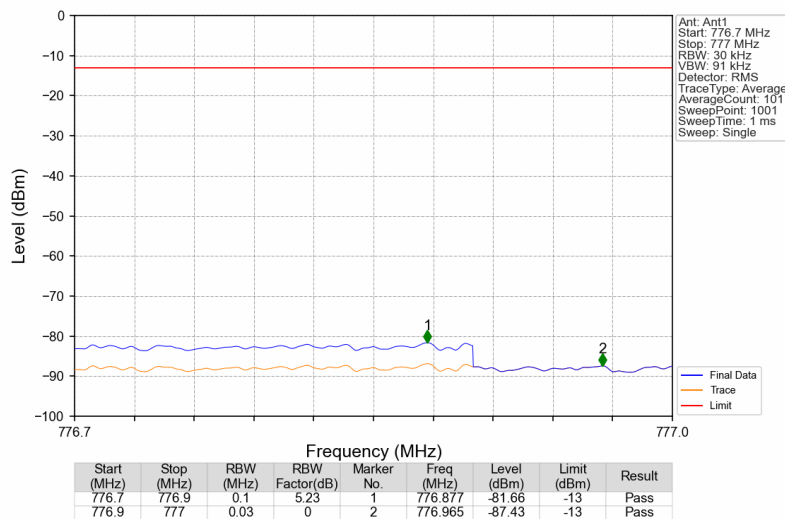
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Band13_748.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Band13_748.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



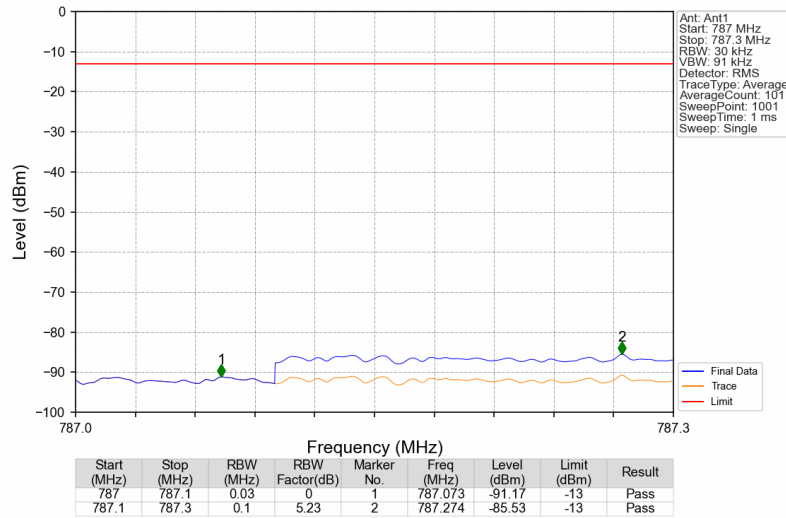
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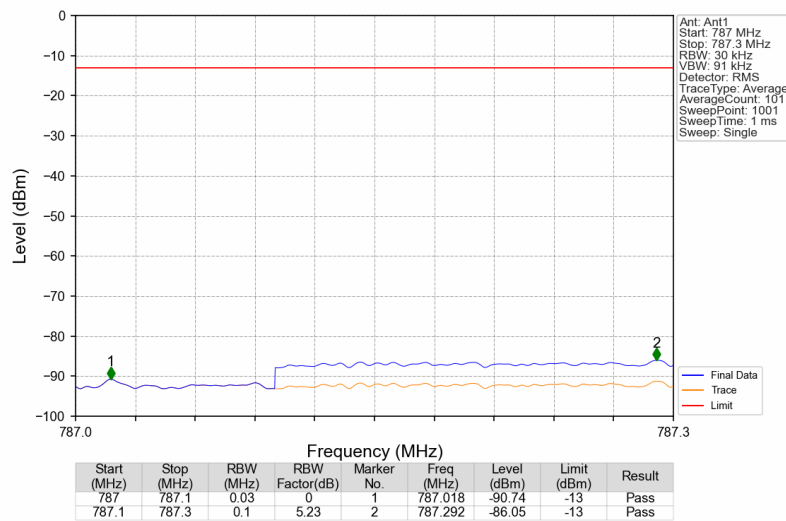
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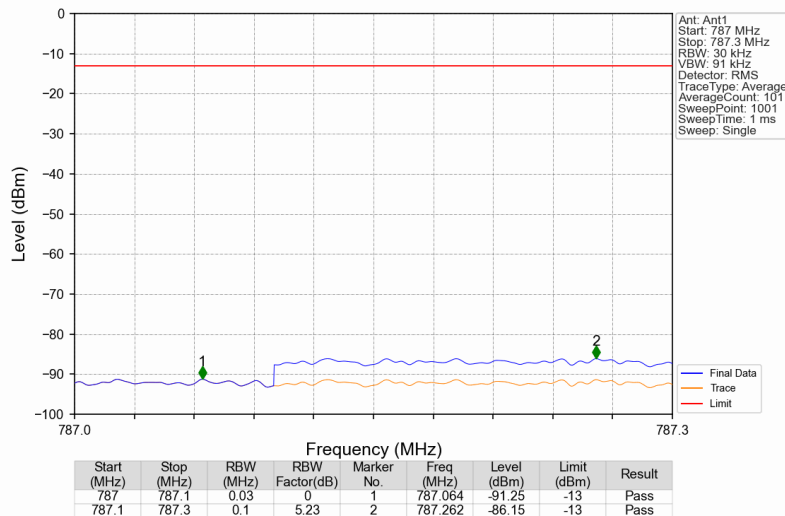
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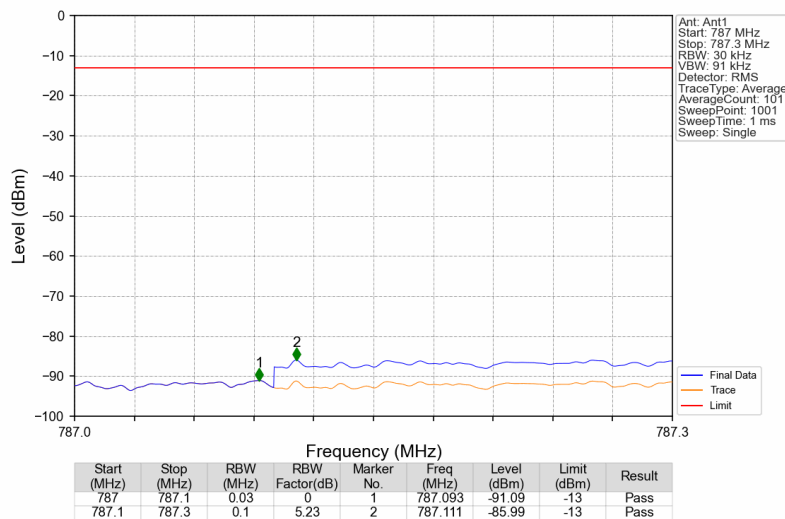
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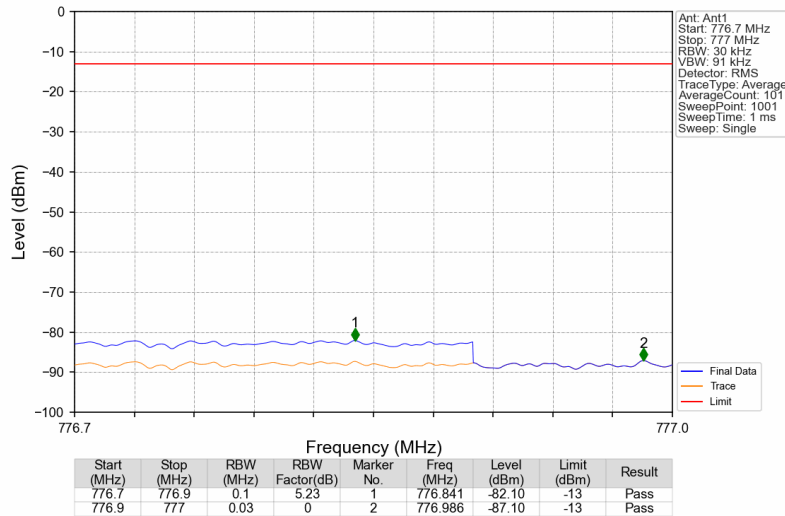


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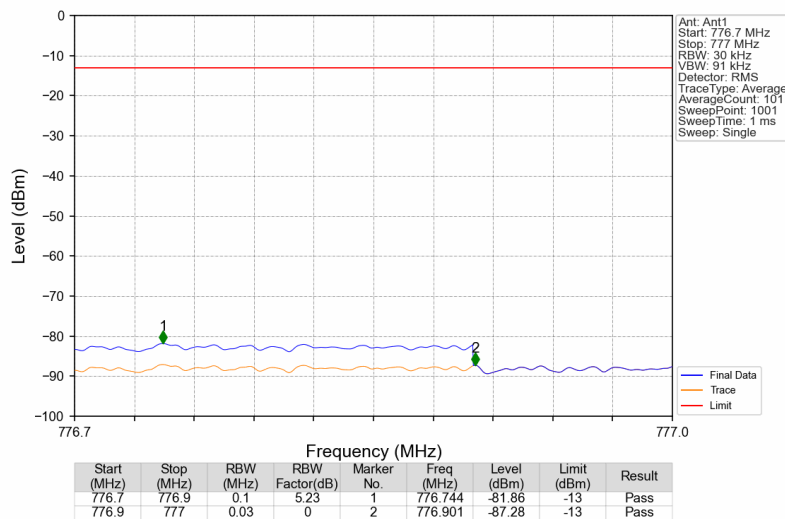
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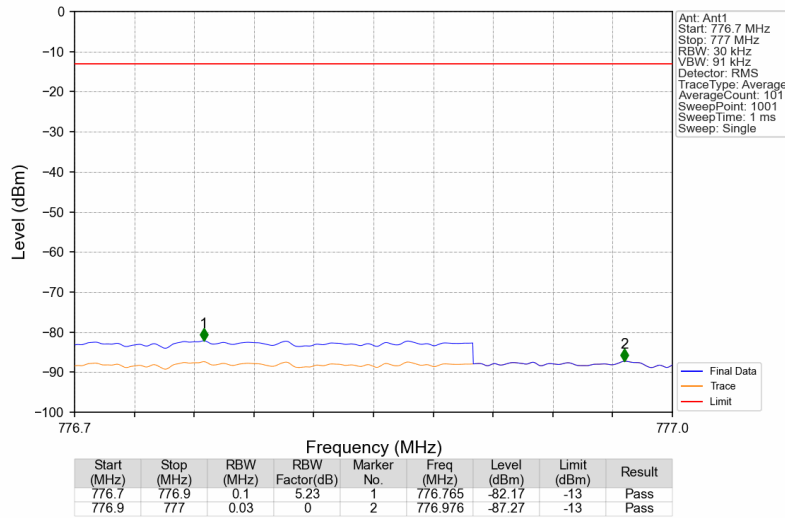
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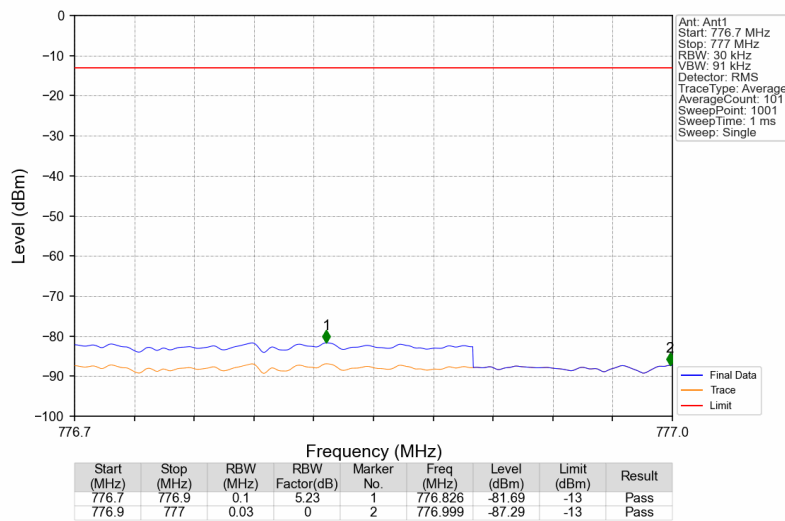
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Band13_746.1MHz_GMSK_SISO_Ant1_NTNV_AGC



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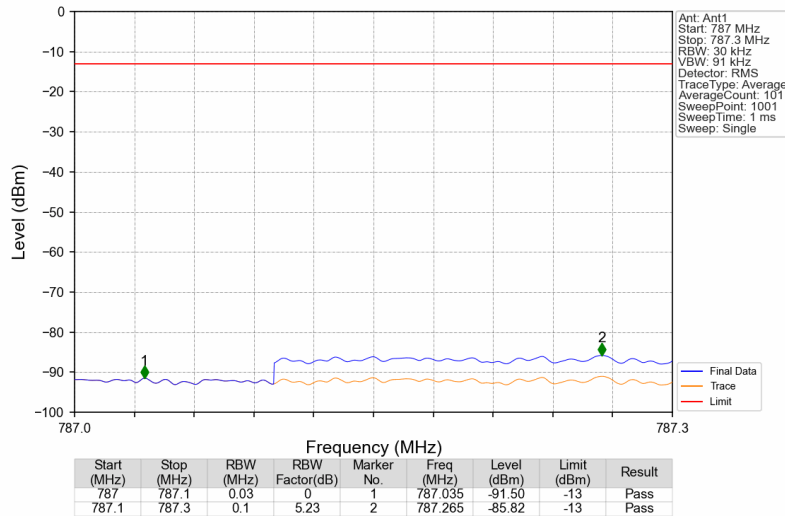
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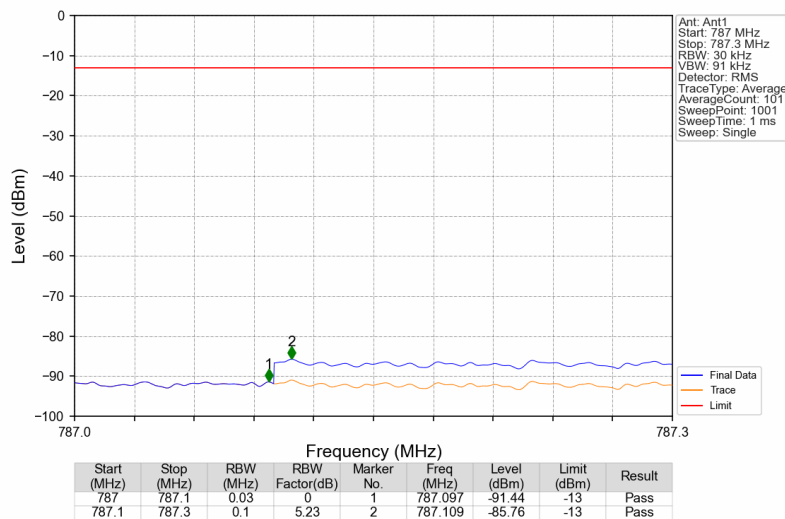
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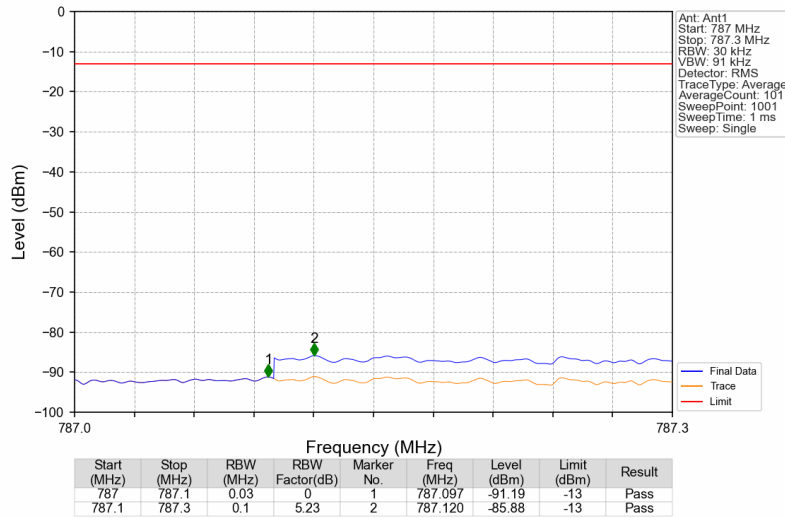
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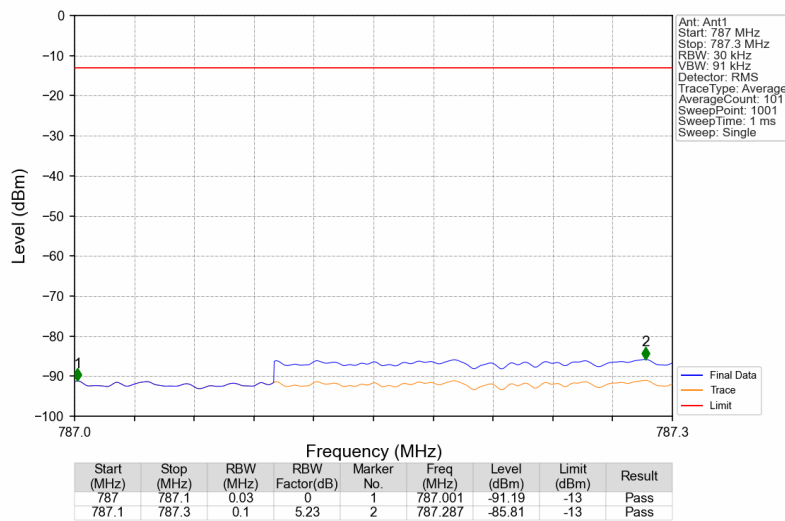
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6. Spurious emissions

6.1 Band13

6.1.1 Test Result

Band: 13 / NTV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
AWGN	-2.2	748.5	LCH	SISO	1	Refer To Test Graph		Pass
		751	MCH	SISO	1	Refer To Test Graph		Pass
		753.5	HCH	SISO	1	Refer To Test Graph		Pass
GMSK	-1.2	746.1	LCH	SISO	1	Refer To Test Graph		Pass
		751	MCH	SISO	1	Refer To Test Graph		Pass
		755.9	HCH	SISO	1	Refer To Test Graph		Pass

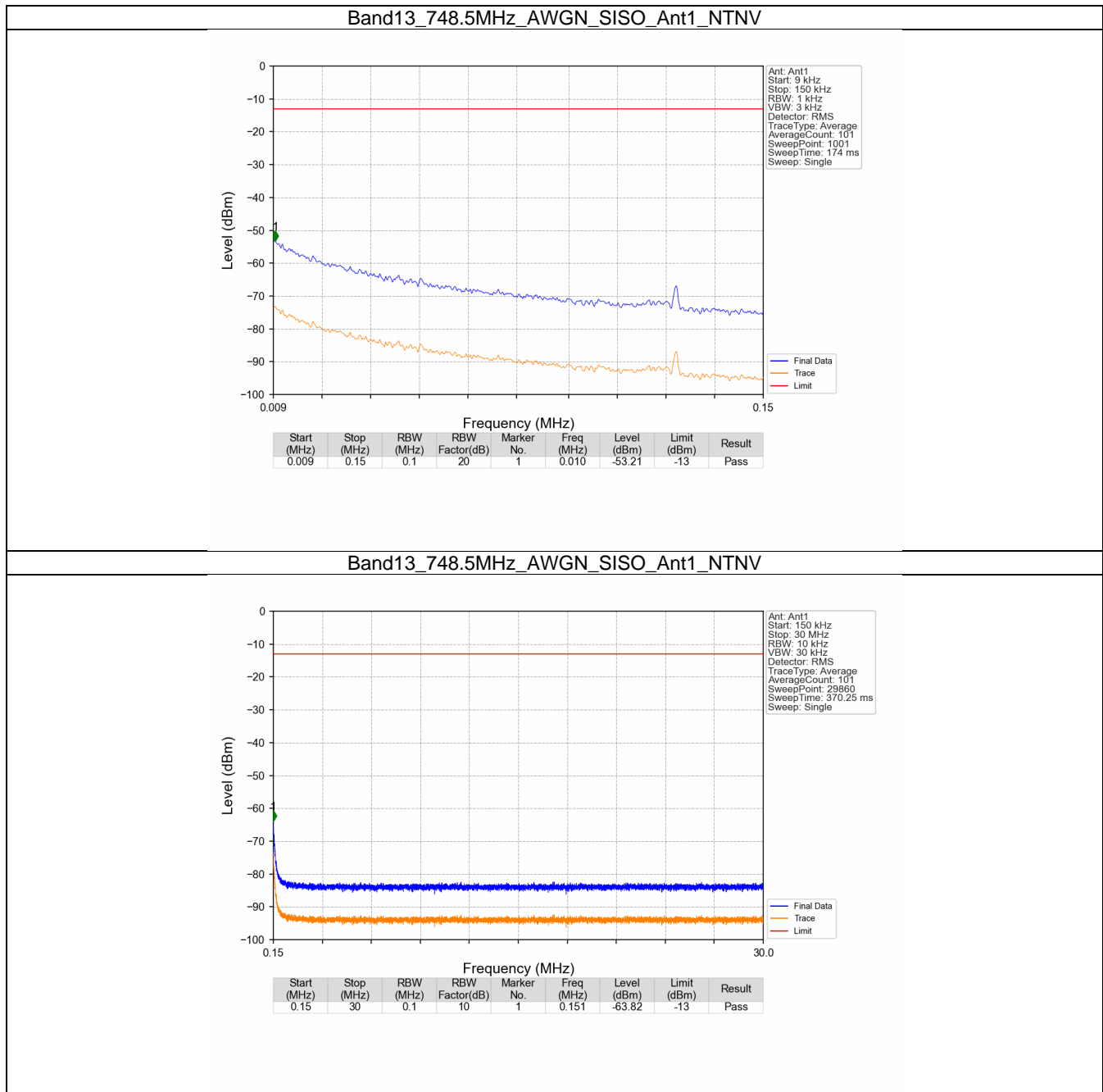


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6.1.2 Test Graph



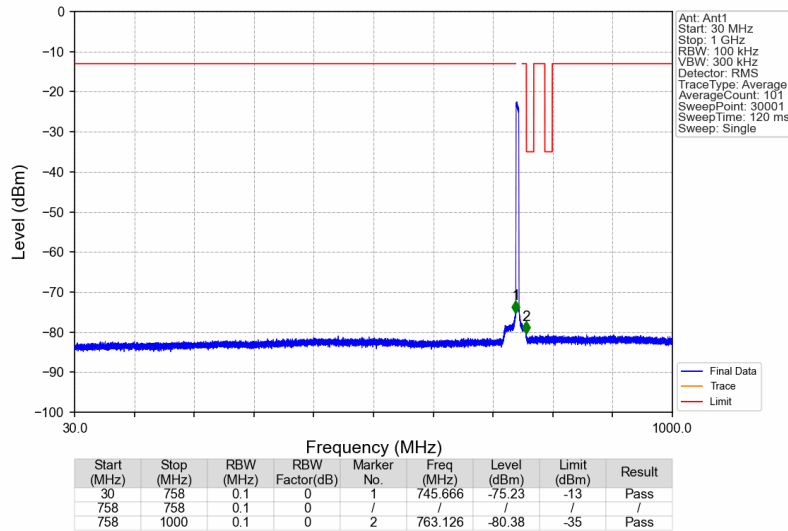
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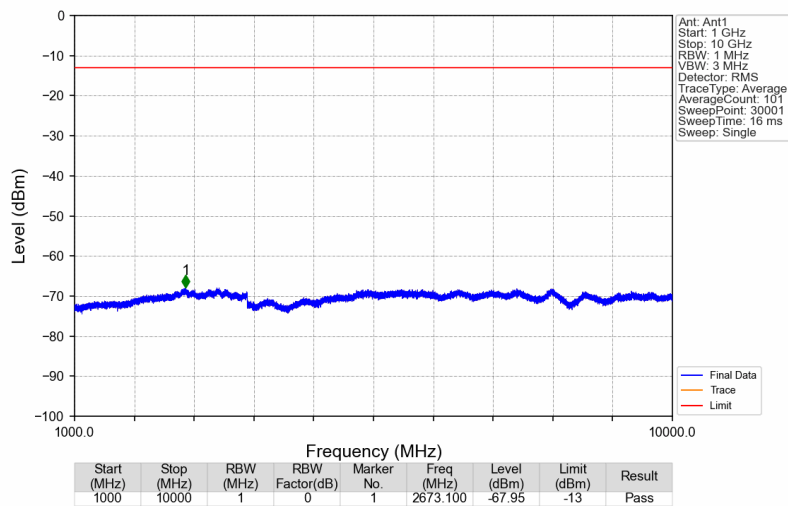
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Band13_748.5MHz_AWGN_SISO_Ant1_NTNV



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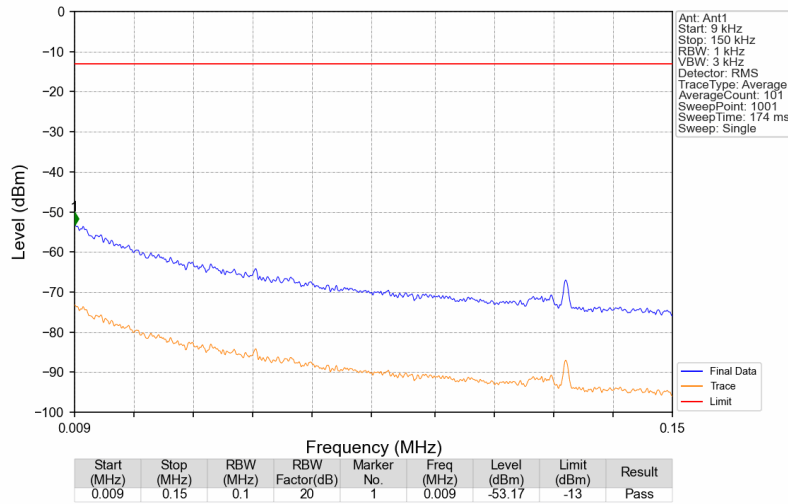
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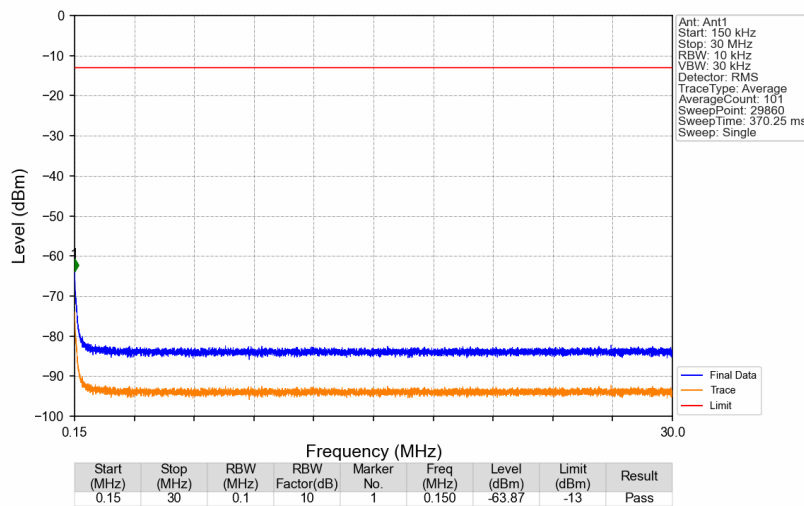
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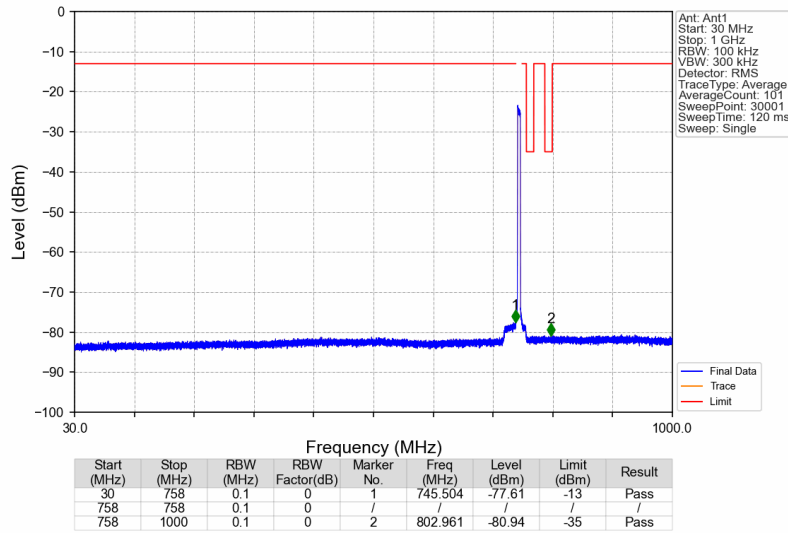
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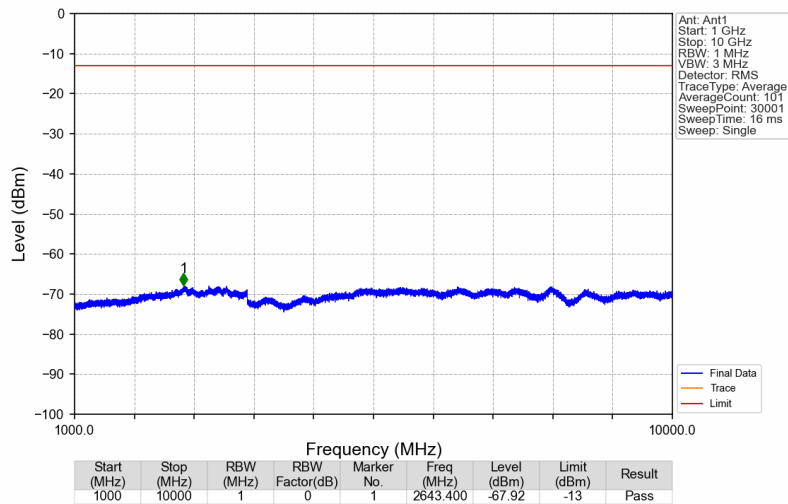
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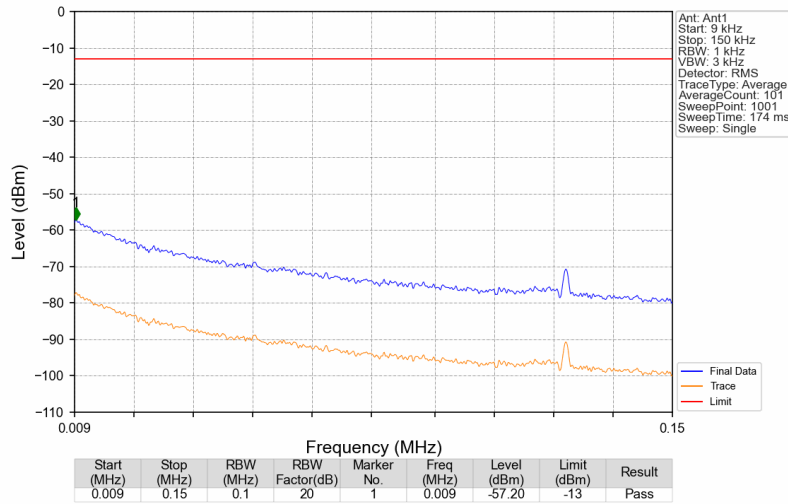
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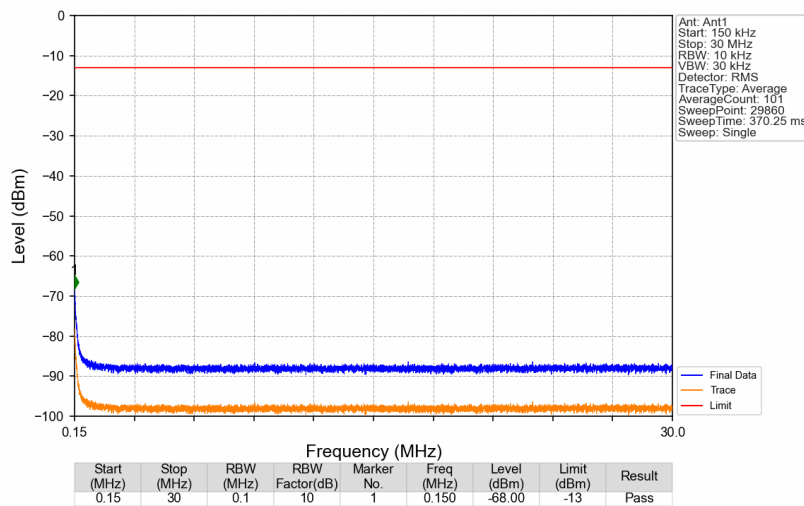


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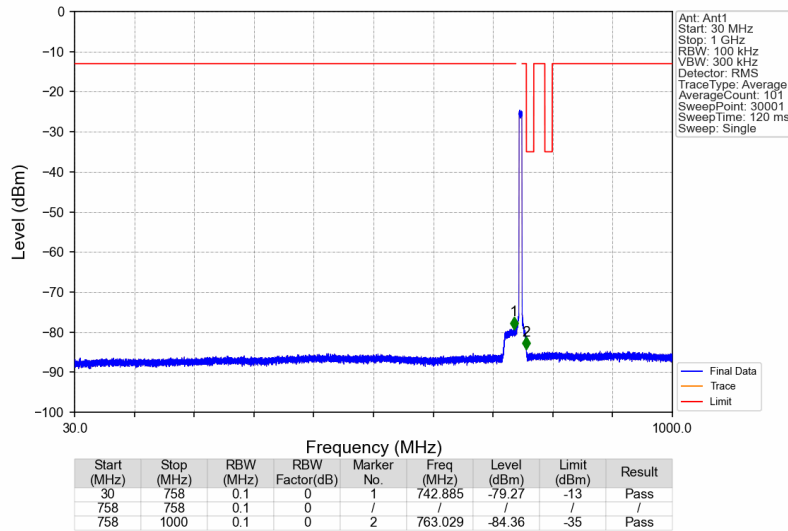
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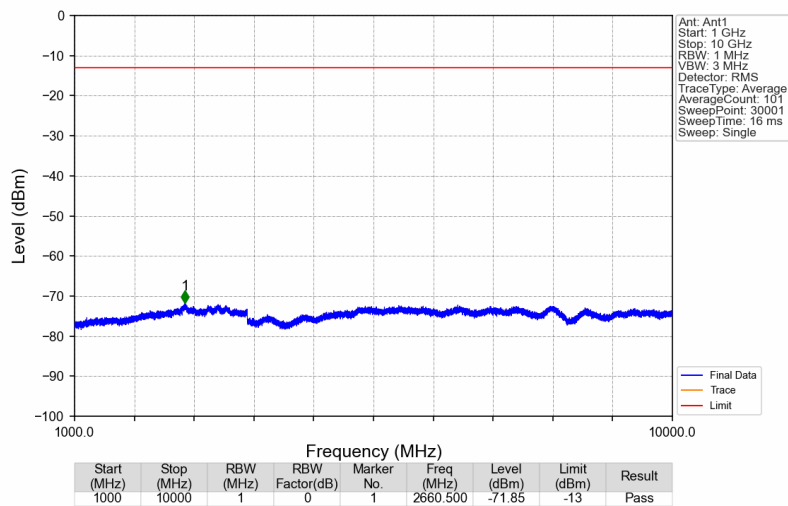
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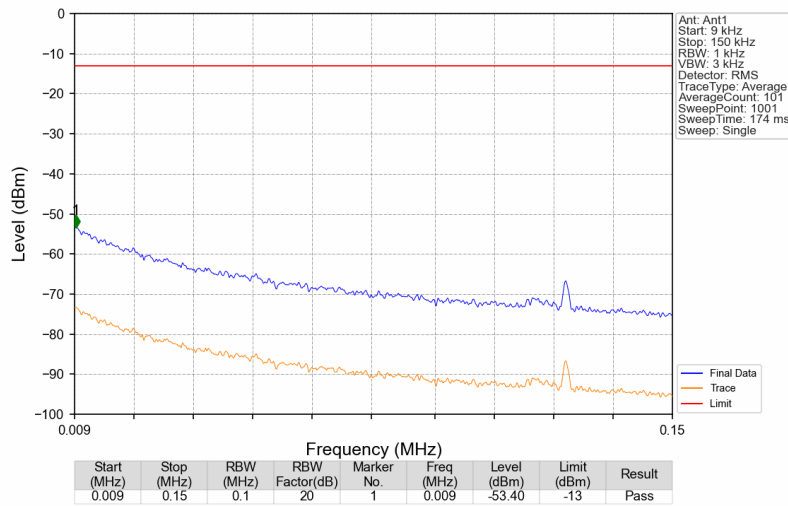
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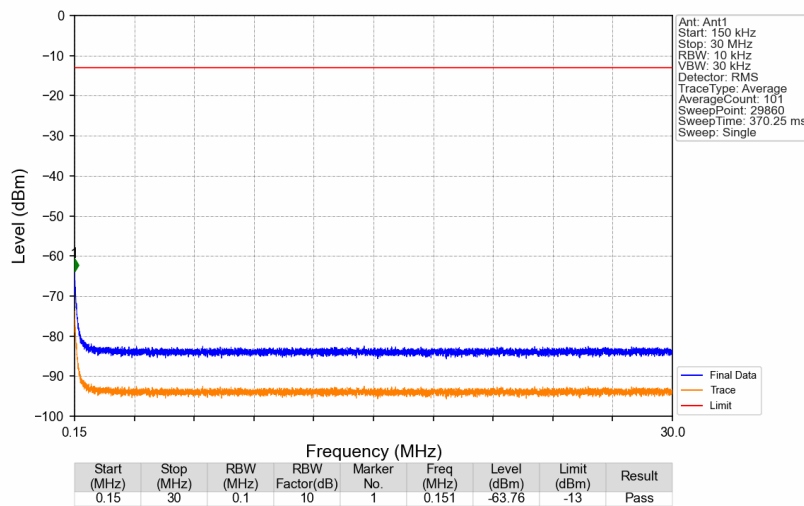
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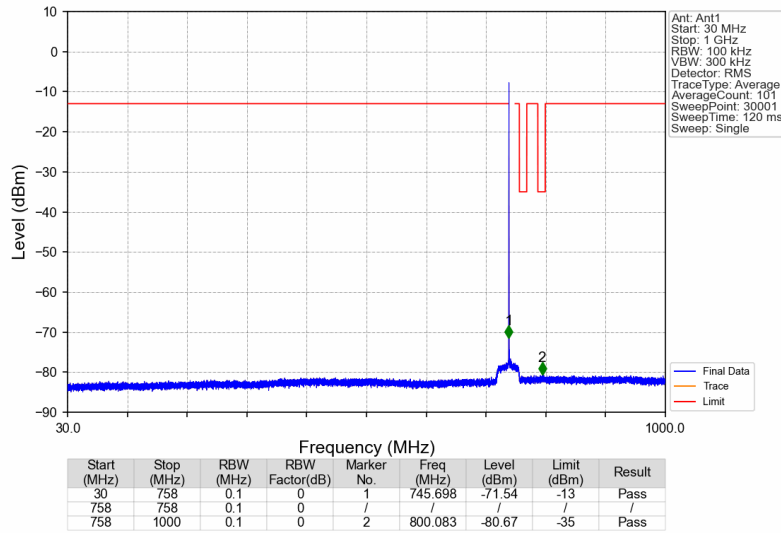
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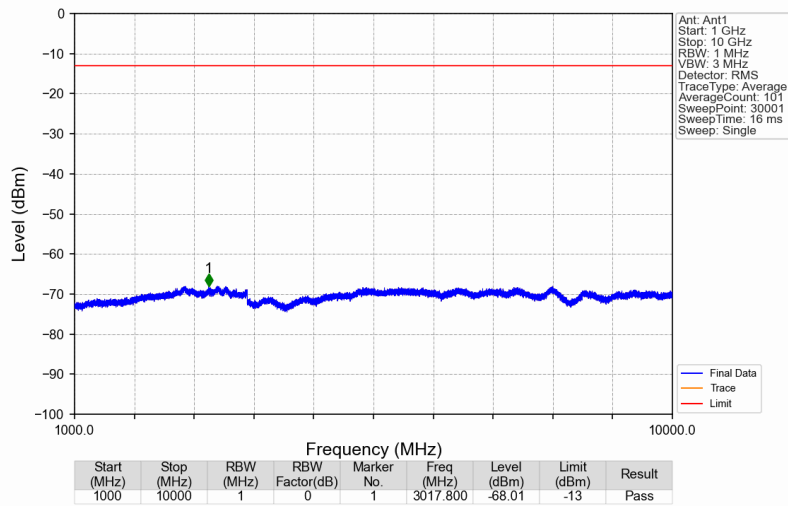
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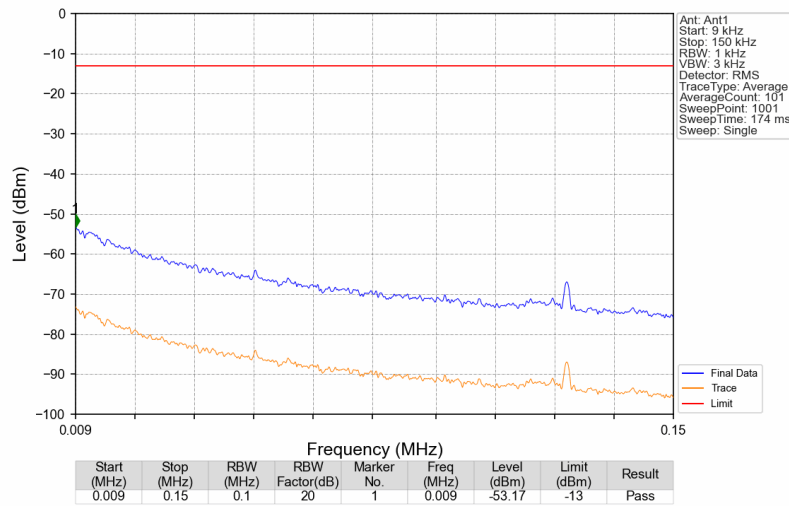
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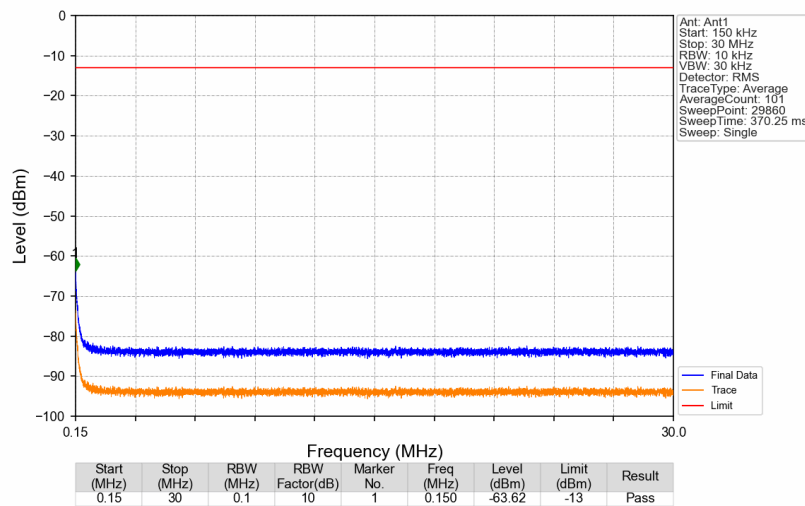


Compliance Certification Services (Kunshan) Inc.
 EMC Laboratory

Band13_751MHz_GMSK_SISO_Ant1_NTNV



Band13_751MHz_GMSK_SISO_Ant1_NTNV



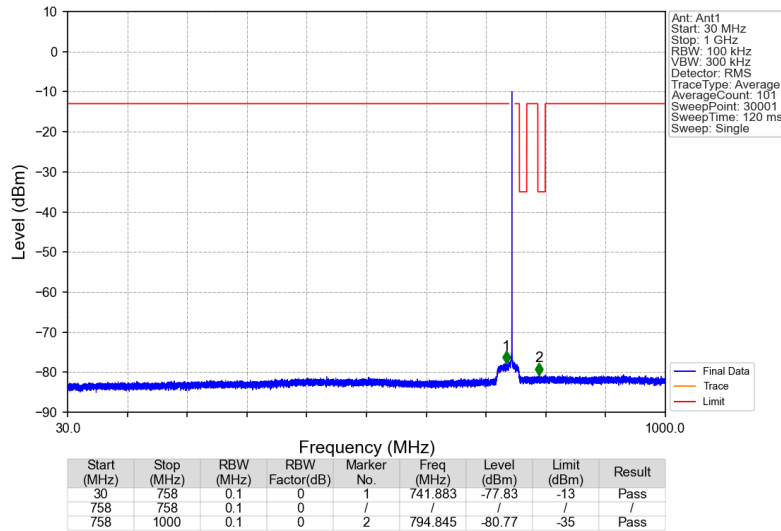
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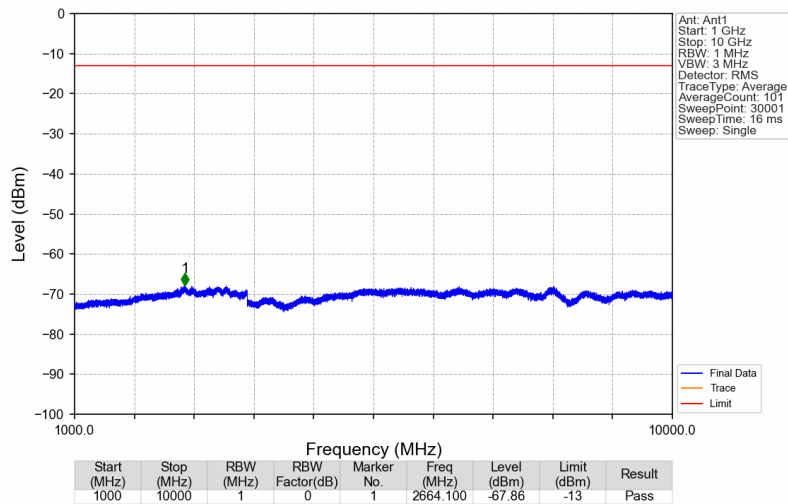
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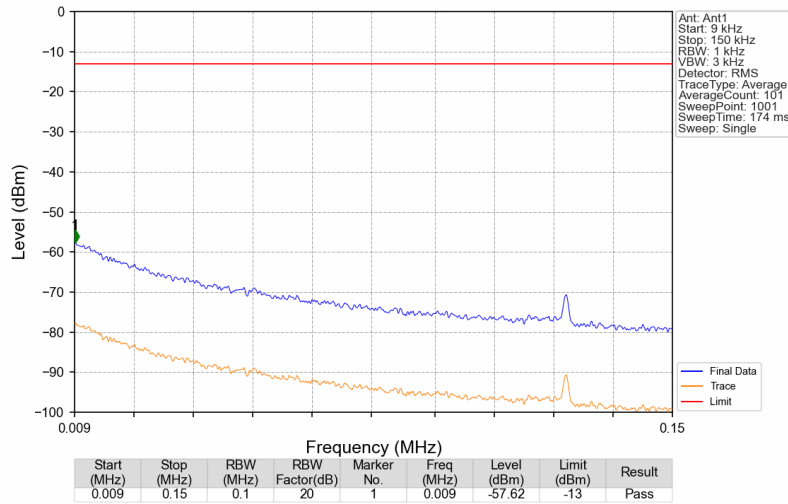
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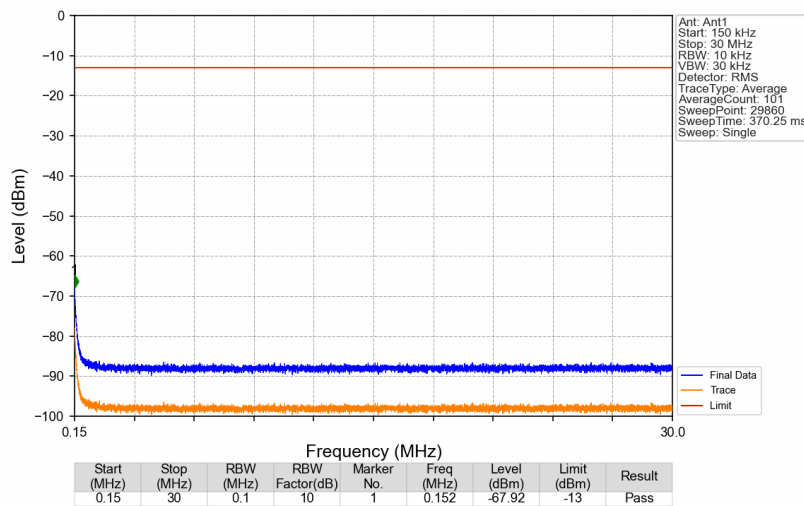
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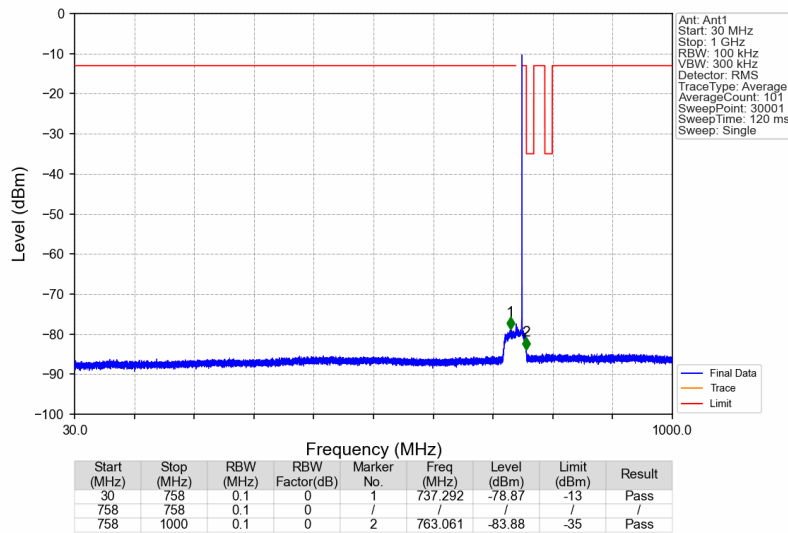
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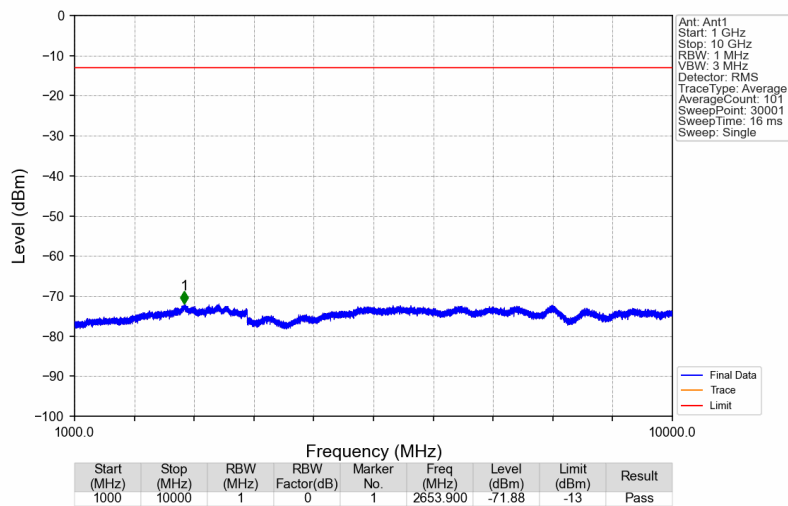
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7. Frequency stability measurements

7.1 Band13_Ant1

7.1.1 Test Result

Signal			Band: 13 / NTV					
Type	Level (dBm)	Frequency (MHz)	Temp (°C)	Voltage (VAC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict	
CW	-2.2	746.1	20	102	746.10	0.00	Pass	
				120	746.10	0.00	Pass	
				138	746.10	0.00	Pass	
			-30	120	746.10	0.00	Pass	
				-20	120	746.10	0.00	Pass
					120	746.10	0.00	Pass
			-10	120	746.10	0.00	Pass	
				0	120	746.10	0.00	Pass
			10	120	746.10	0.00	Pass	
				30	120	746.10	0.00	Pass
		40	120	746.10	0.00	Pass		
			50	120	746.10	0.00	Pass	
		751	20	102	751.00	0.00	Pass	
				120	751.00	0.00	Pass	
				138	751.00	0.00	Pass	
			-30	120	751.00	0.00	Pass	
				-20	120	751.00	0.00	Pass
					120	751.00	0.00	Pass
			-10	120	751.00	0.00	Pass	
				0	120	751.00	0.00	Pass
			10	120	751.00	0.00	Pass	
				30	120	751.00	0.00	Pass
		40	120	751.00	0.00	Pass		
			50	120	751.00	0.00	Pass	
		755.9	20	102	755.90	0.00	Pass	
				120	755.90	0.00	Pass	
				138	755.90	0.00	Pass	
			-30	120	755.90	0.00	Pass	
				-20	120	755.90	0.00	Pass
					120	755.90	0.00	Pass
-10	120		755.90	0.00	Pass			
	0		120	755.90	0.00	Pass		
10	120		755.90	0.00	Pass			
	30		120	755.90	0.00	Pass		
40	120	755.90	0.00	Pass				
	50	120	755.90	0.00	Pass			



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