

## Appendix A for KSCR2209001813AT-FCC-Booster-NR13

## 1. Out of band rejection

## 1.1 Band13

## 1.1.1 Test Result

Band: 13 / NTNV							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	726 - 776	SISO	1	748.650	745.750	756.250	Pass



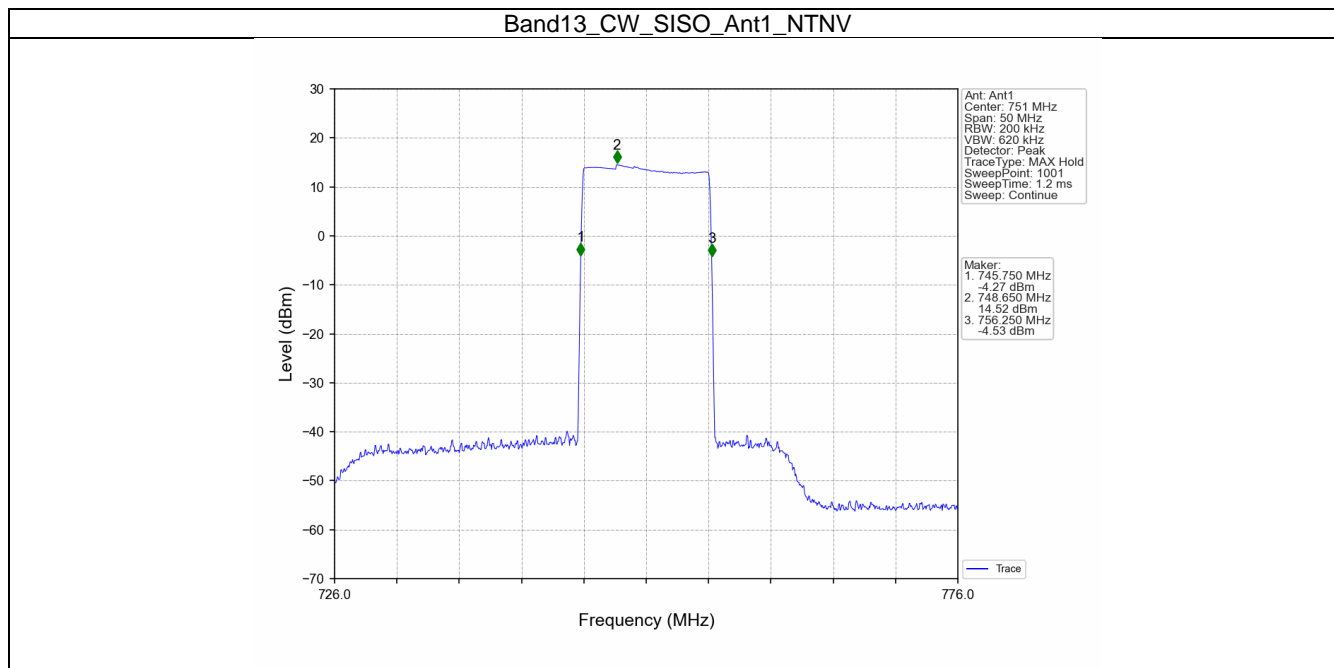
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### 1.1.2 Test Graph



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## 2. AGC threshold

### 2.1 Band13

#### 2.1.1 Test Result

Band: 13 / NTNV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
AWGN	748.65	SISO	1	-2.20	Pass
GMSK	748.65	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 / NTNV							
Signal			TX Type	ANT	99% OBW (MHz)		Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	0.8	748.65	SISO	1	4.533	4.533	Pass
	-2.2	748.65	SISO	1	4.524	4.544	Pass
GMSK	1.8	748.65	SISO	1	0.244	0.246	Pass
	-1.2	748.65	SISO	1	0.245	0.244	Pass



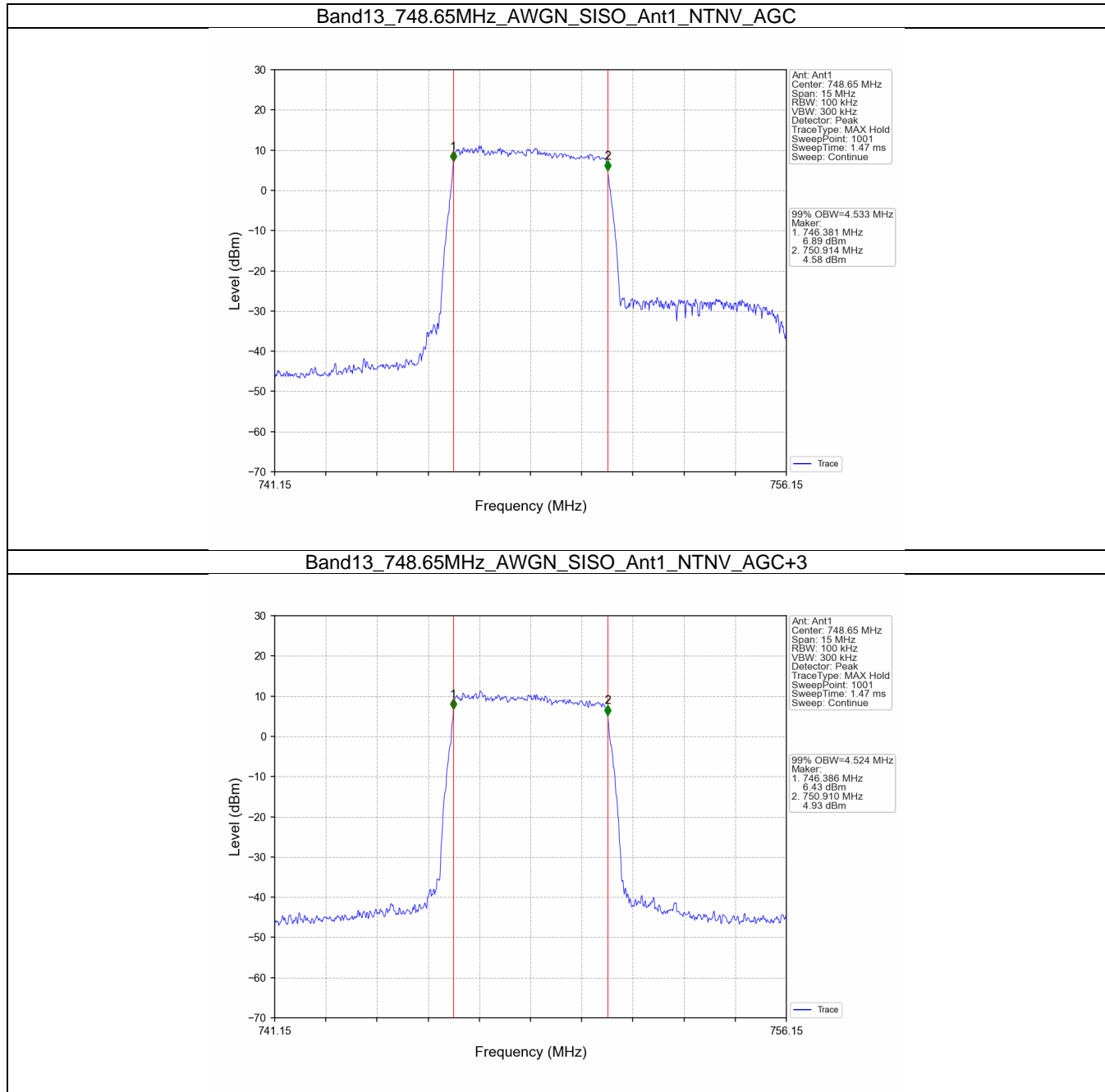
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### 3.1.2 Test Graph



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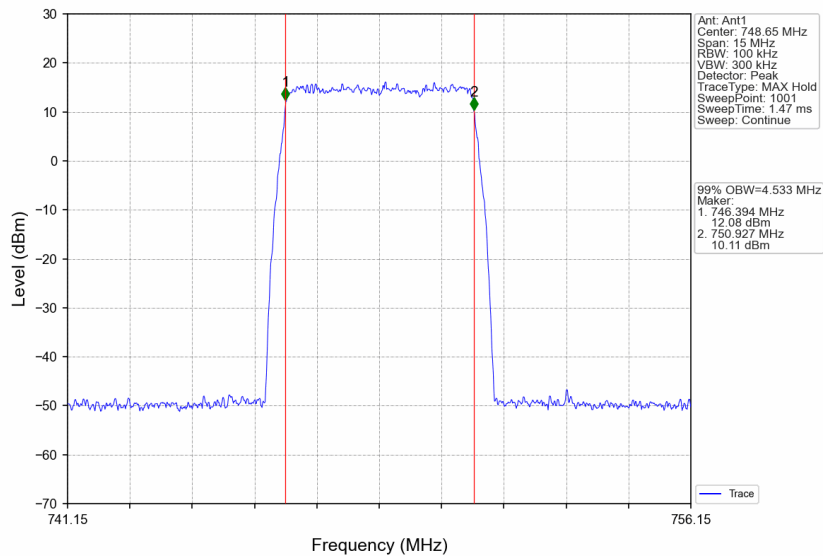
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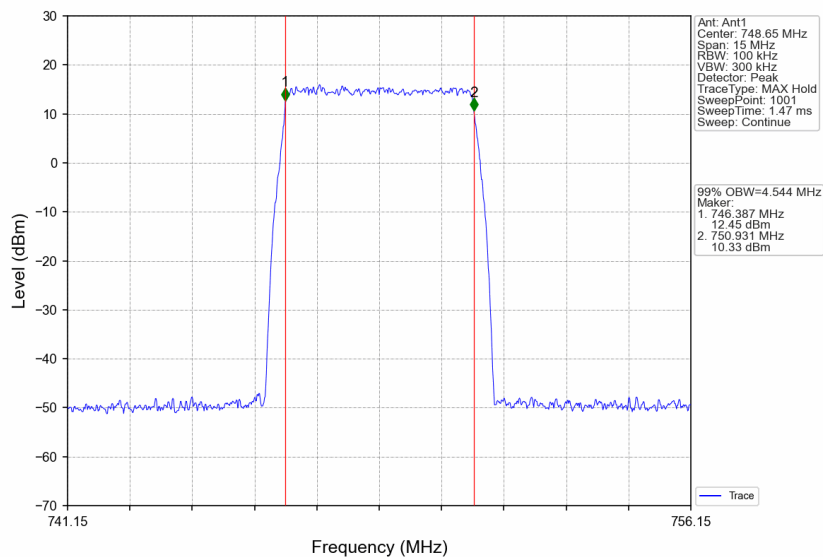
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Band13\_748.65MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3



Band13\_748.65MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC



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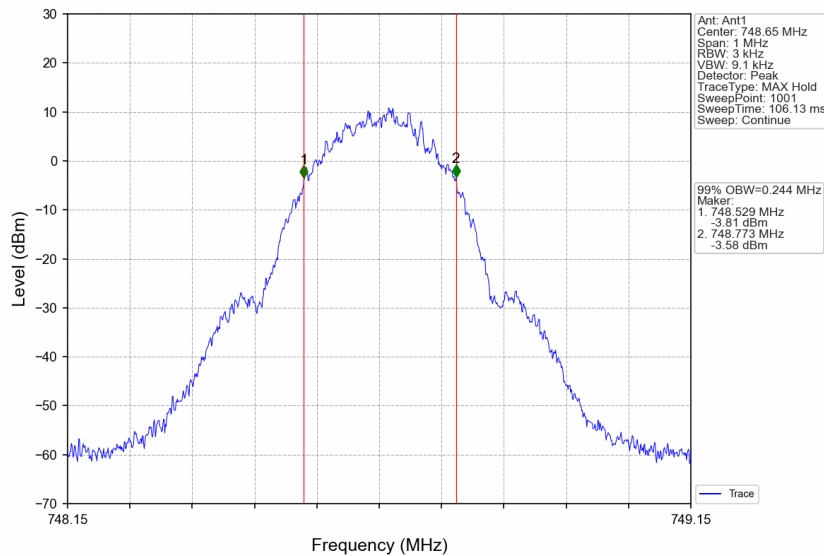
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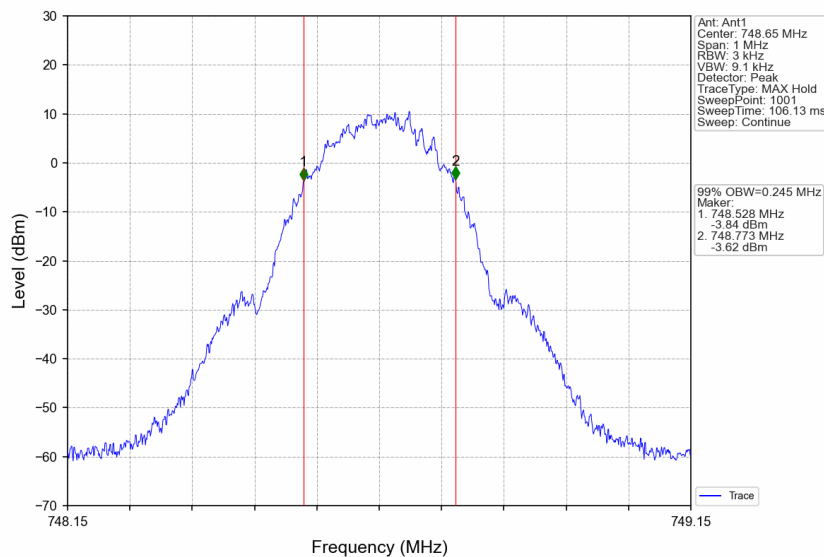
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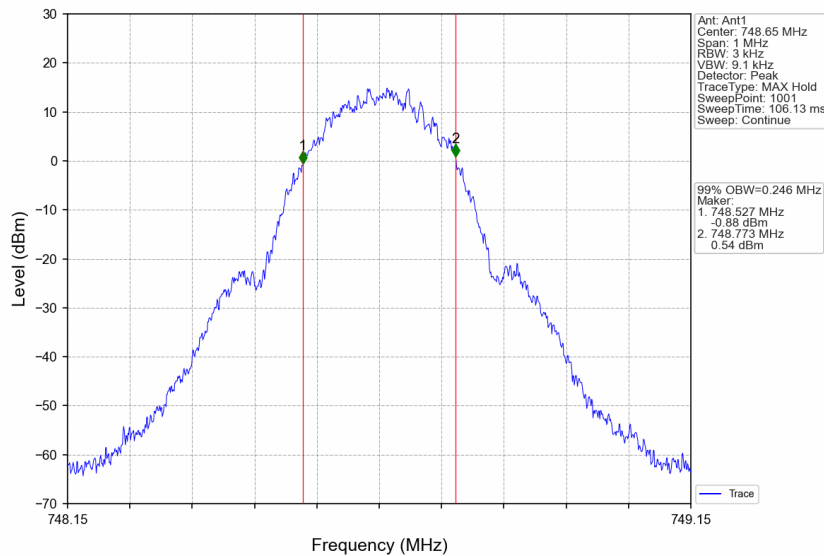
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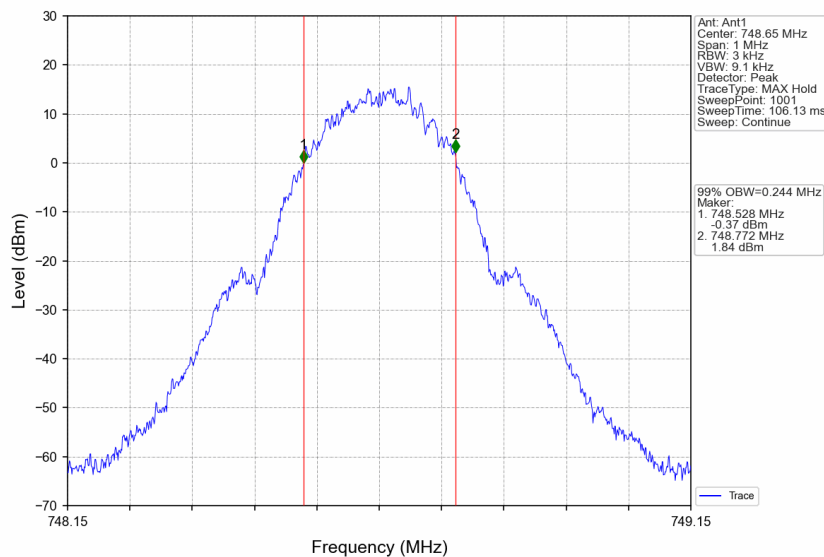
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## 3.2 Band13\_EBW

## 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	748.65	SISO	1	5.052	5.075	Pass
	-2.2	748.65	SISO	1	5.034	5.060	Pass
GMSK	1.8	748.65	SISO	1	0.314	0.315	Pass
	-1.2	748.65	SISO	1	0.315	0.314	Pass



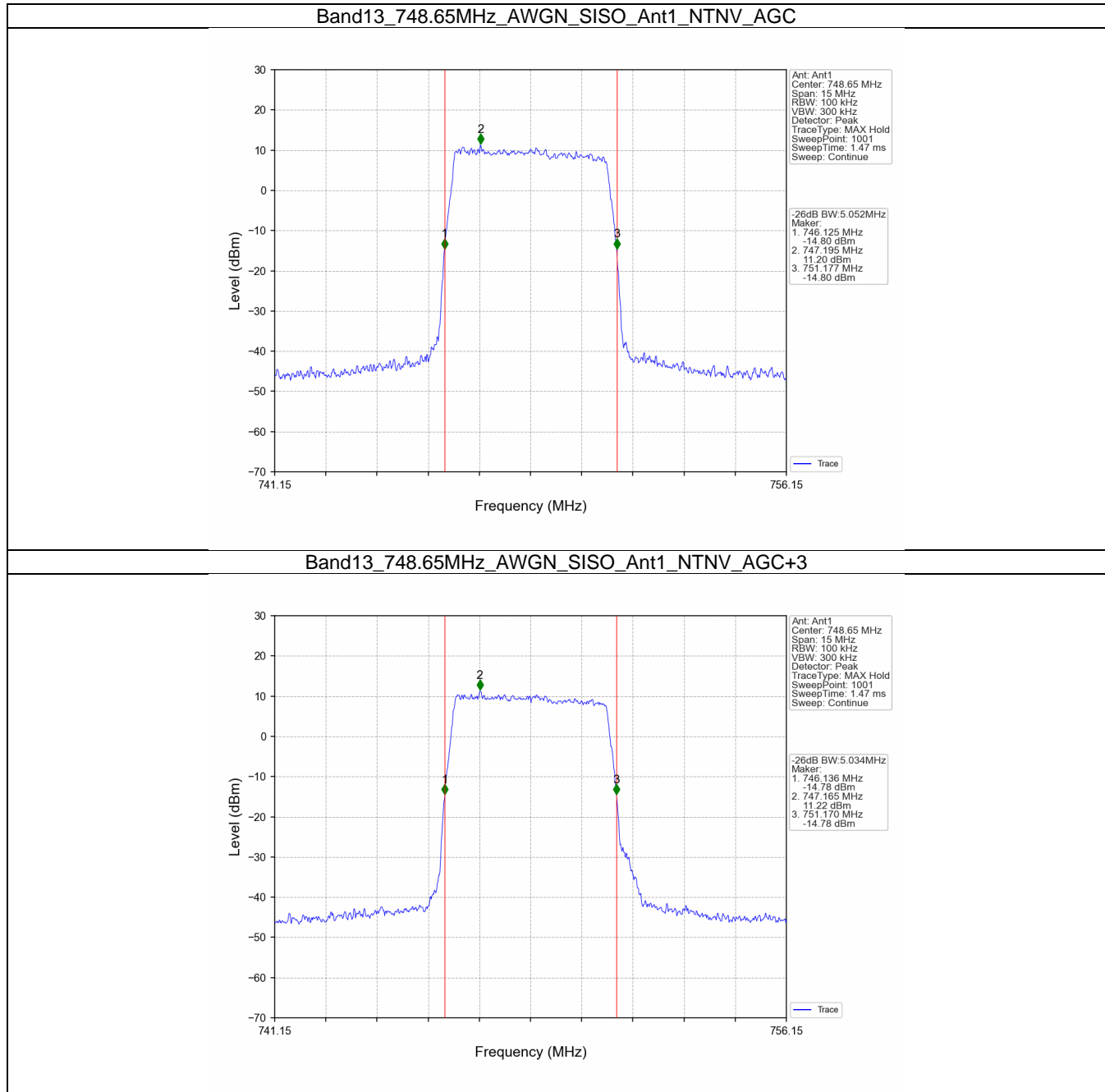
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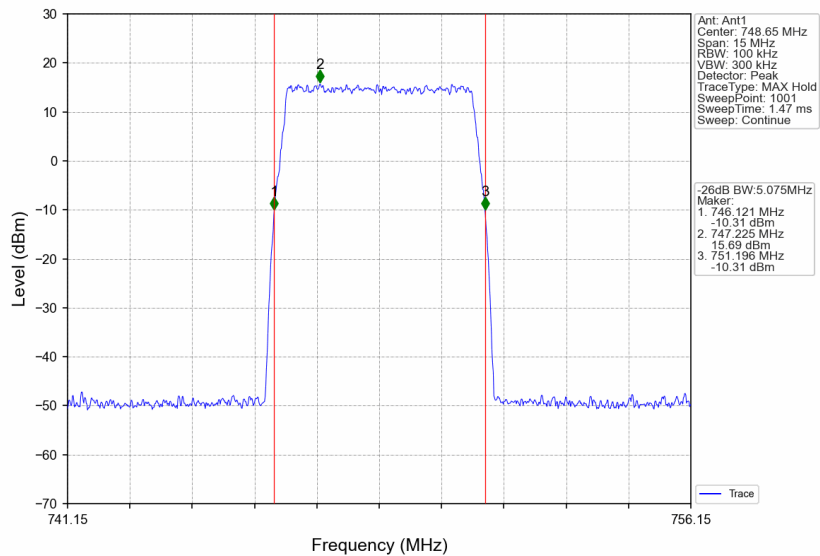
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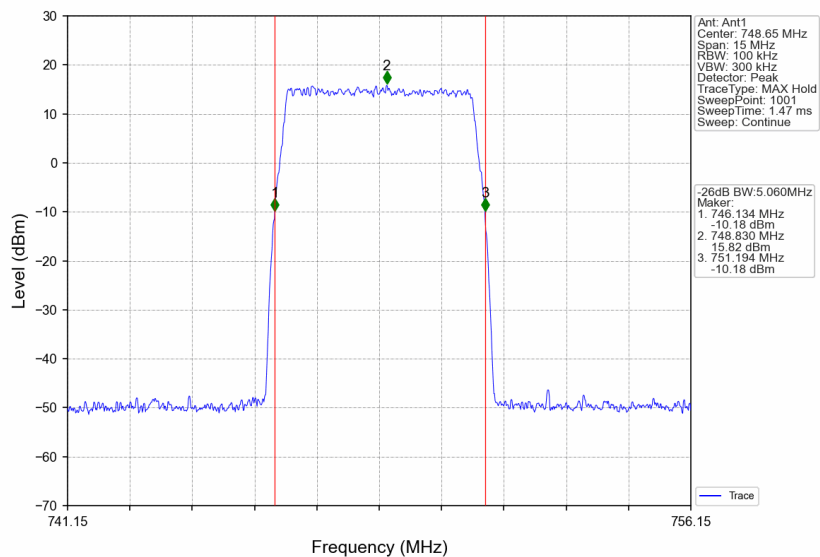
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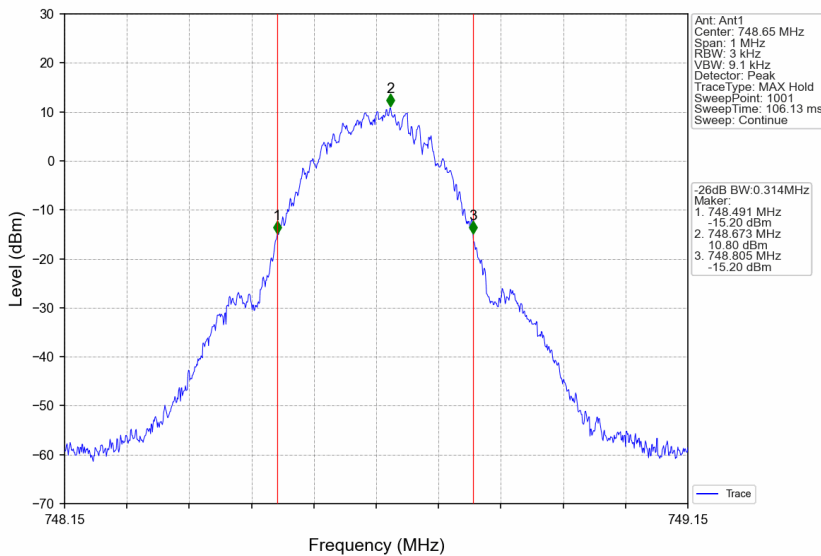
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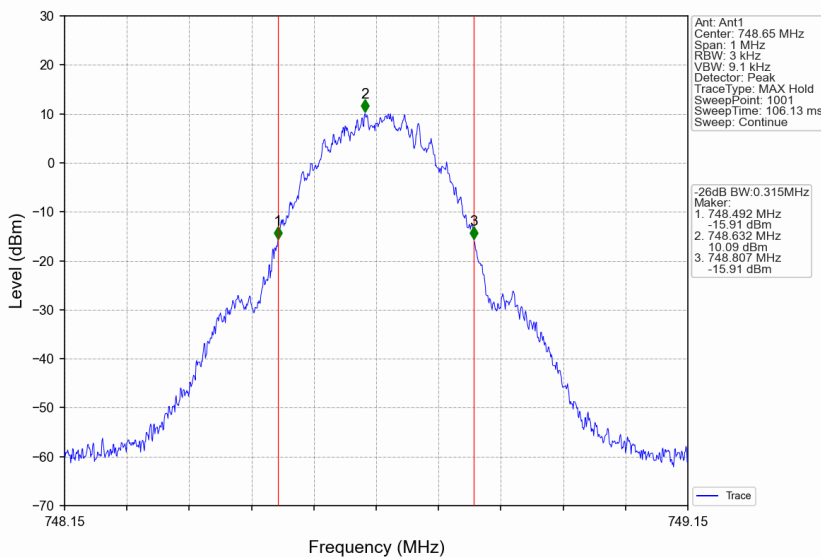
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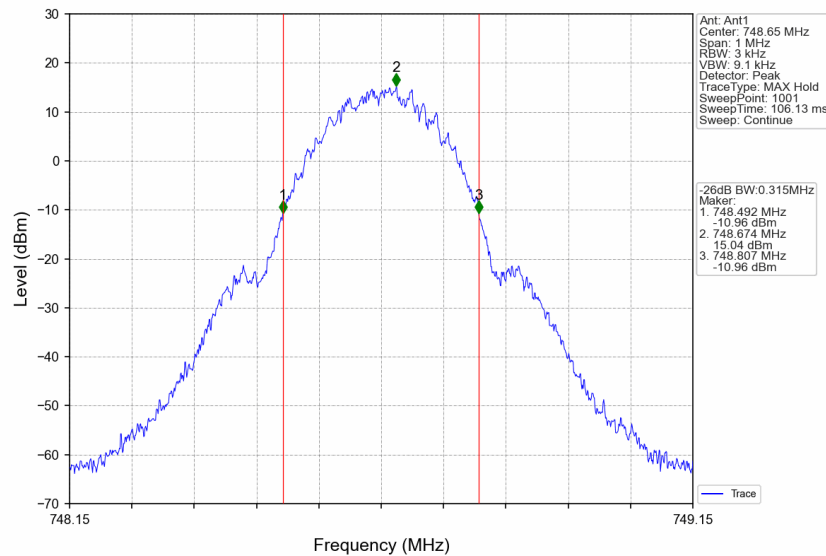
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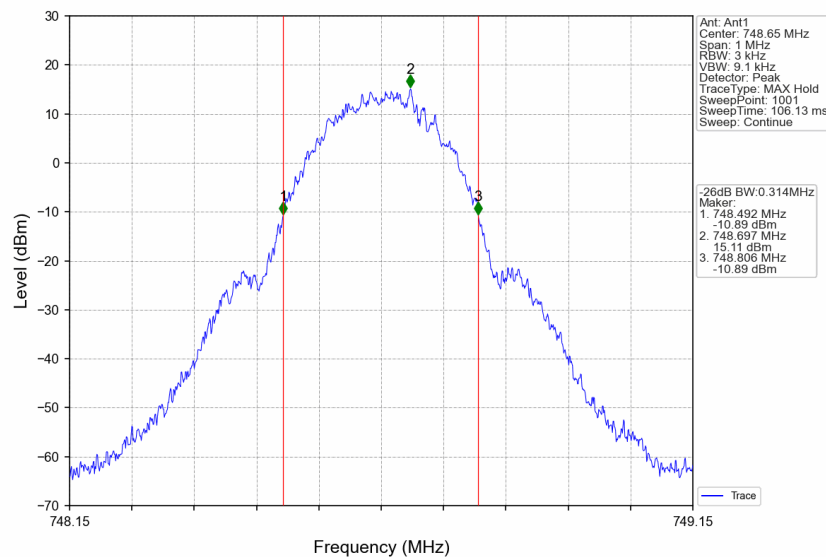
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## 4. Input/output power and amplifier/booster gain

### 4.1 Band13\_ERP

#### 4.1.1 Test Result

Band: 13 / 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	-2.2	748.65	SISO	1	10.95	-6.18	11.23	<=60	17.13	Pass
	0.8	748.65	SISO	1	11.20	-3.14	11.48	<=60	/	Pass
GMSK	-1.2	748.65	SISO	1	17.35	-0.05	17.63	<=60	17.40	Pass
	1.8	748.65	SISO	1	17.54	2.90	17.82	<=60	/	Pass

Band: 13 / NTNV							
Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Total Output Power (dBm)	ERP(dBm)	Gain (dB)
					SISO	SISO	
746MHz-756MHz	748.550	AWGN	Pre-AGC	-2.2	17.11	17.39	/
			3dB Above AGC	0.8	17.28	17.56	/
	748.550	GMSK	Pre-AGC	-1.2	17.35	17.63	/
			3dB Above AGC	1.8	17.54	17.82	/



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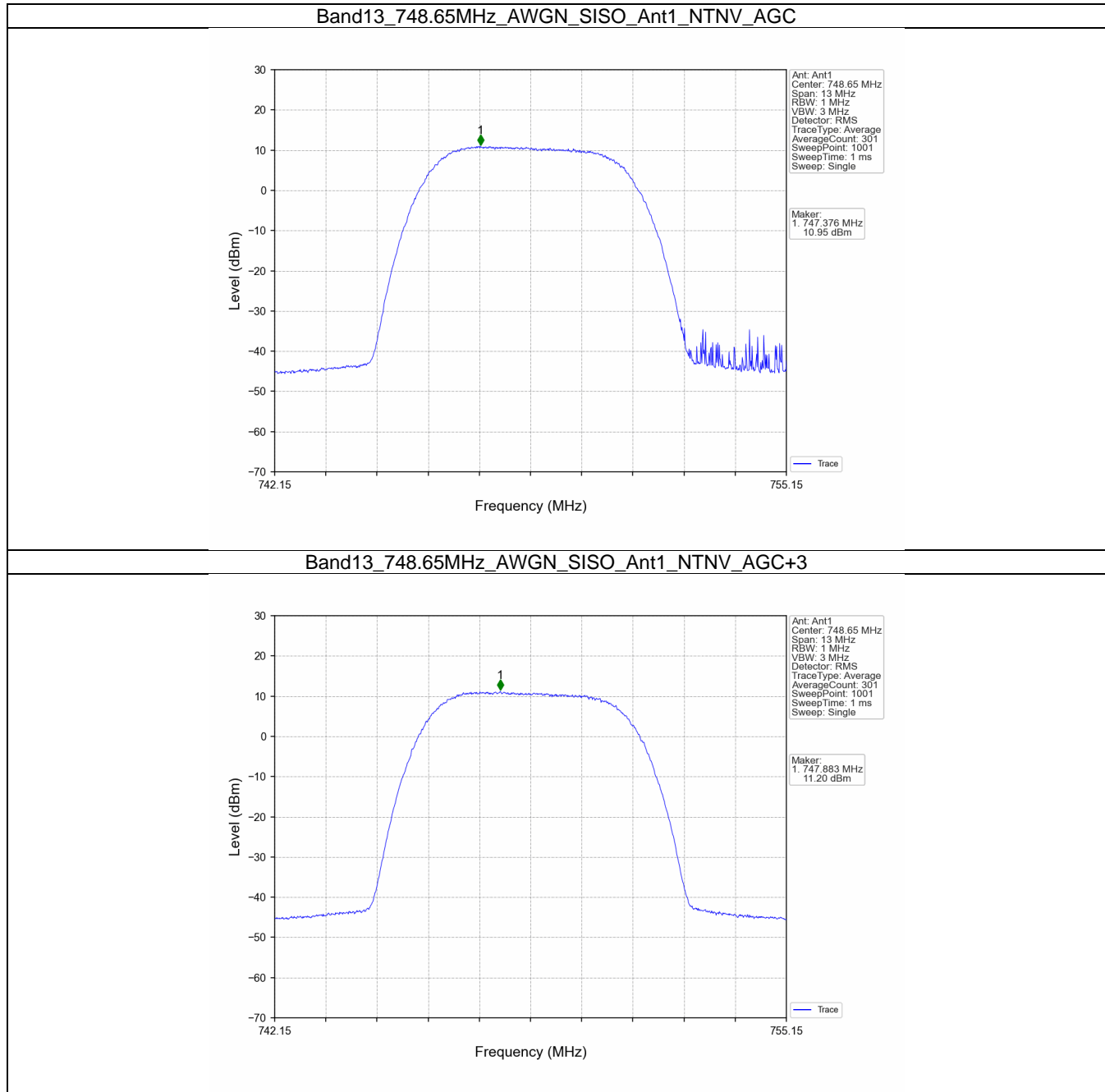
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### 4.1.2 Test Graph



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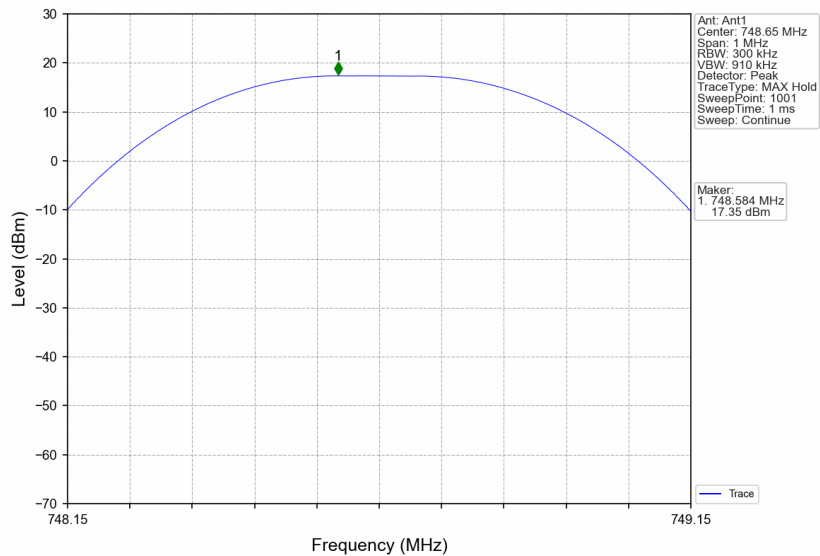
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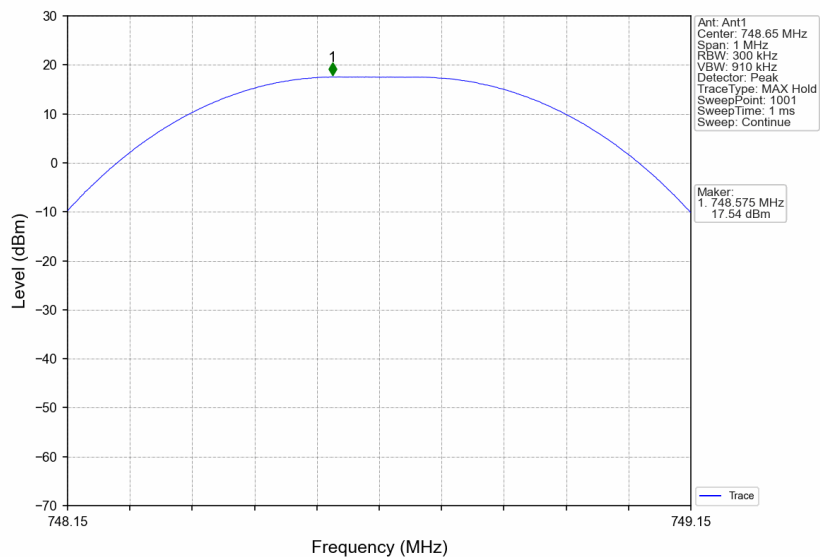
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Band13\_748.65MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



Band13\_748.65MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3



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## 4.2 Band13\_PAPR

## 4.2.1 Test Result

Band: 13 / NTNV							
Signal			TX Type	ANT	PAPR (dB)		Verdict
Type	Level (dBm)	Frequency (MHz)			Result	Limit	
AWGN	-2.2	748.65	SISO	1	8.29	<=13	Pass
	0.8	748.65	SISO	1	8.26	<=13	Pass
GMSK	-1.2	748.65	SISO	1	0.41	<=13	Pass
	1.8	748.65	SISO	1	0.31	<=13	Pass



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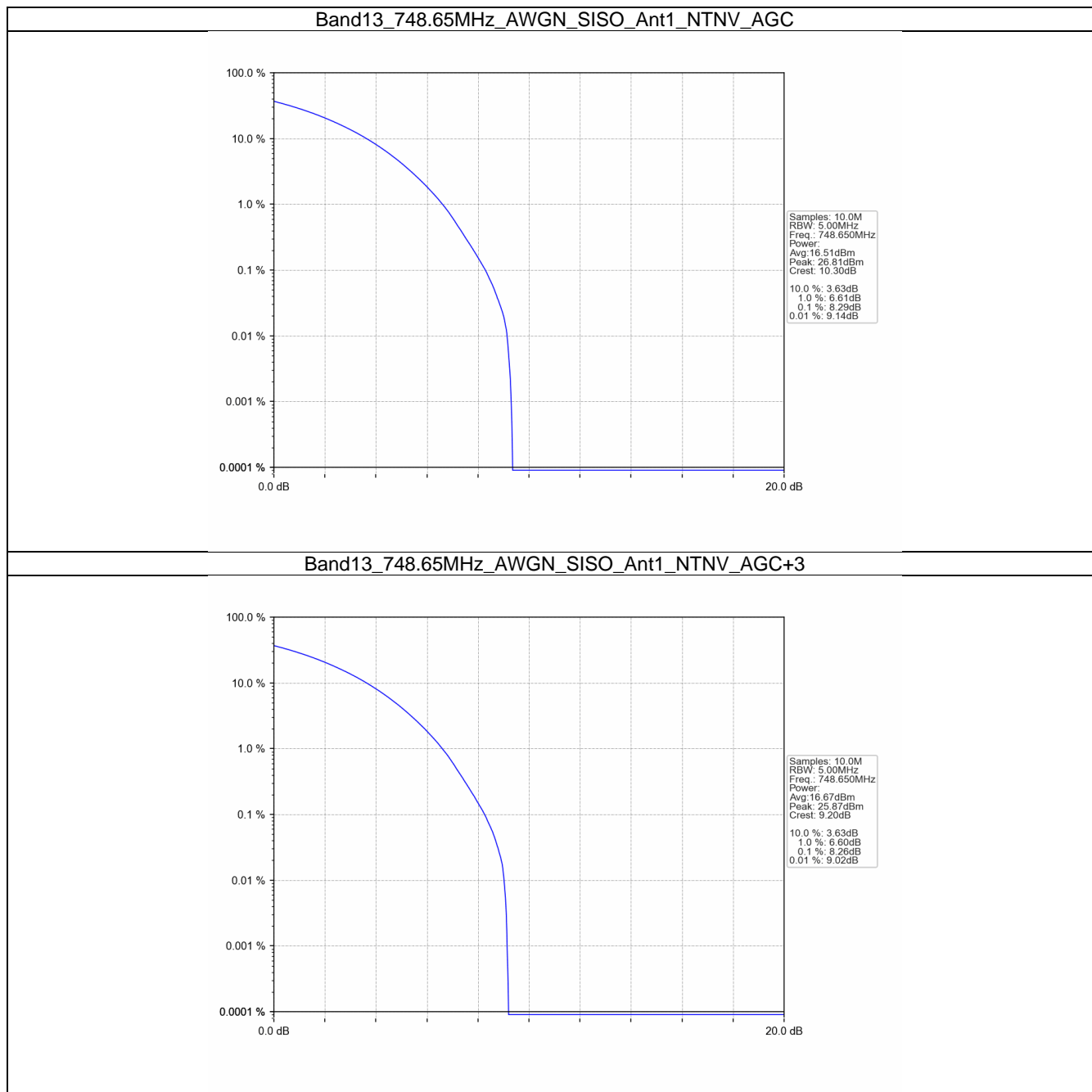
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### 4.2.2 Test Graph



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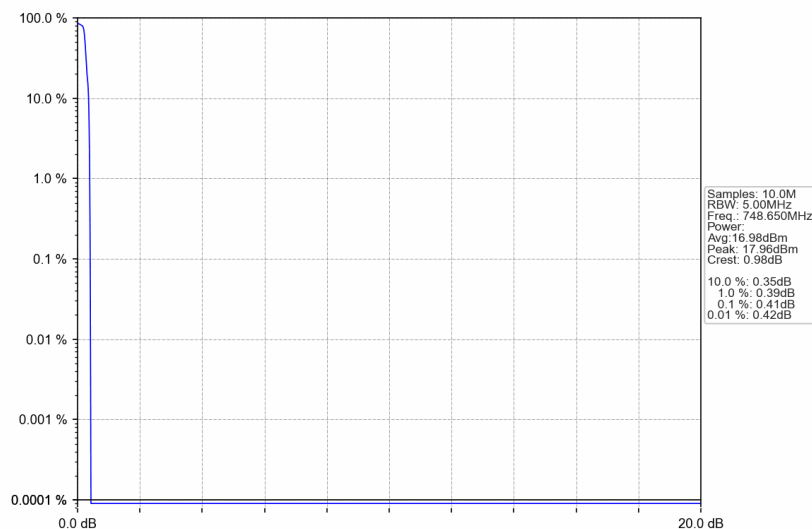
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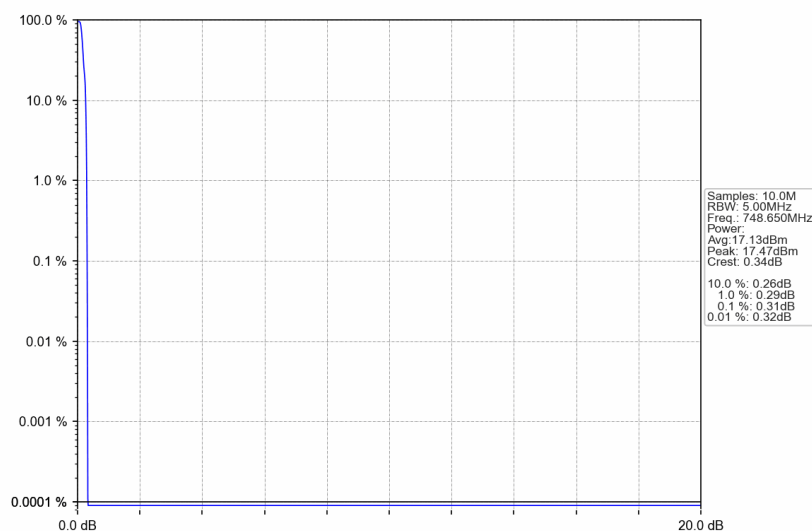
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Band13\_748.65MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



Band13\_748.65MHz\_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 / NTNV									
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	-82.28	Refer To Test Graph	Pass
		0.8	748.5	LCH	SISO	1	-81.90	Refer To Test Graph	Pass
One	AWGN	-2.2	748.5	LCH	SISO	1	-81.88	Refer To Test Graph	Pass
		0.8	748.5	LCH	SISO	1	-82.14	Refer To Test Graph	Pass
Two	AWGN	-2.2	753.5	HCH	SISO	1	-82.12	Refer To Test Graph	Pass
		0.8	753.5	HCH	SISO	1	-81.87	Refer To Test Graph	Pass
One	AWGN	-2.2	753.5	HCH	SISO	1	-82.18	Refer To Test Graph	Pass
		0.8	753.5	HCH	SISO	1	-82.07	Refer To Test Graph	Pass
Two	GMSK	-1.2	746.1	LCH	SISO	1	-81.51	Refer To Test Graph	Pass
		1.8	746.1	LCH	SISO	1	-82.20	Refer To Test Graph	Pass
One	GMSK	-1.2	746.1	LCH	SISO	1	-82.20	Refer To Test Graph	Pass
		1.8	746.1	LCH	SISO	1	-81.87	Refer To Test Graph	Pass
Two	GMSK	-1.2	755.9	HCH	SISO	1	-82.31	Refer To Test Graph	Pass
		1.8	755.9	HCH	SISO	1	-81.97	Refer To Test Graph	Pass
One	GMSK	-1.2	755.9	HCH	SISO	1	-81.84	Refer To Test Graph	Pass
		1.8	755.9	HCH	SISO	1	-81.68	Refer To Test Graph	Pass



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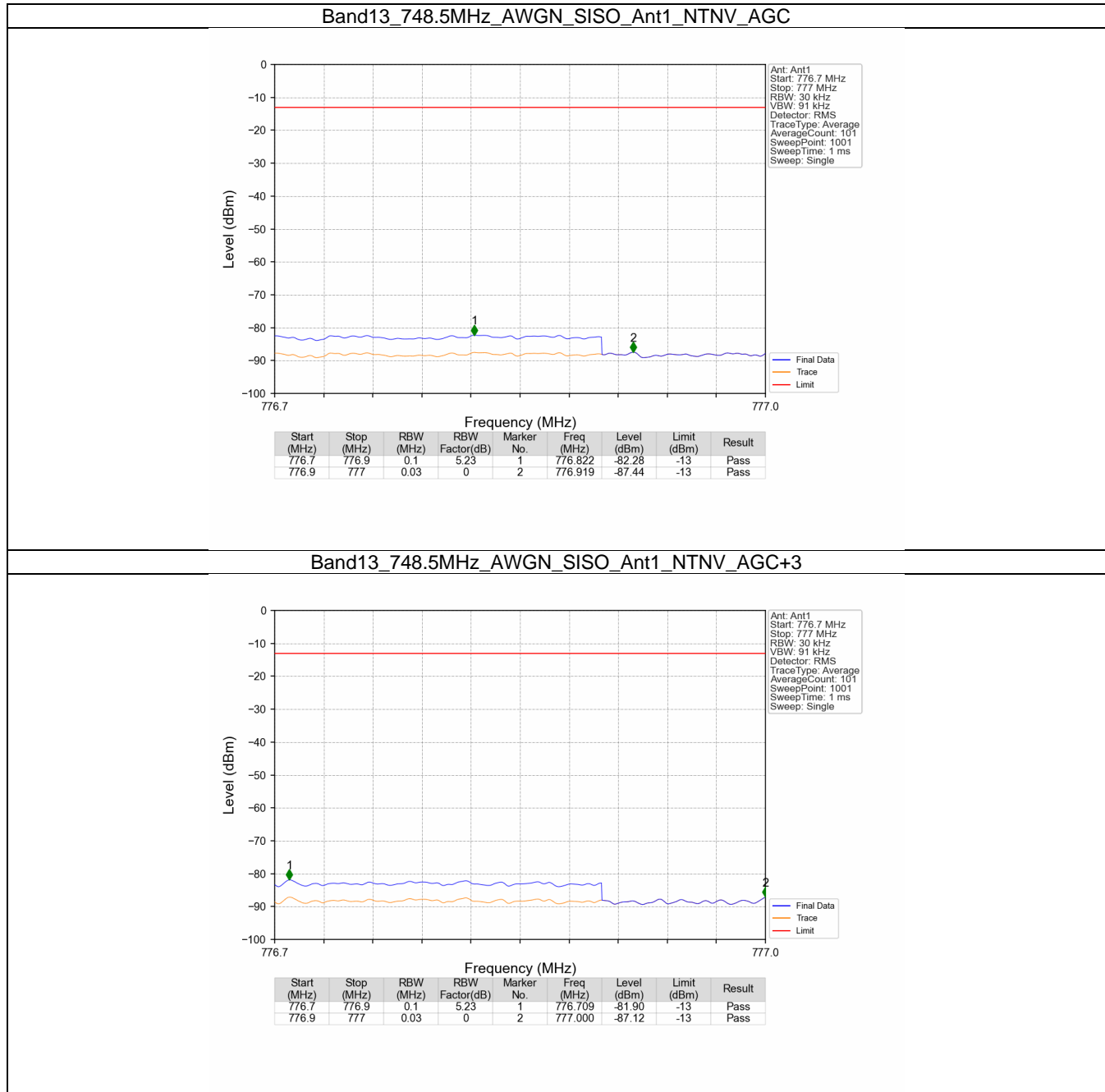
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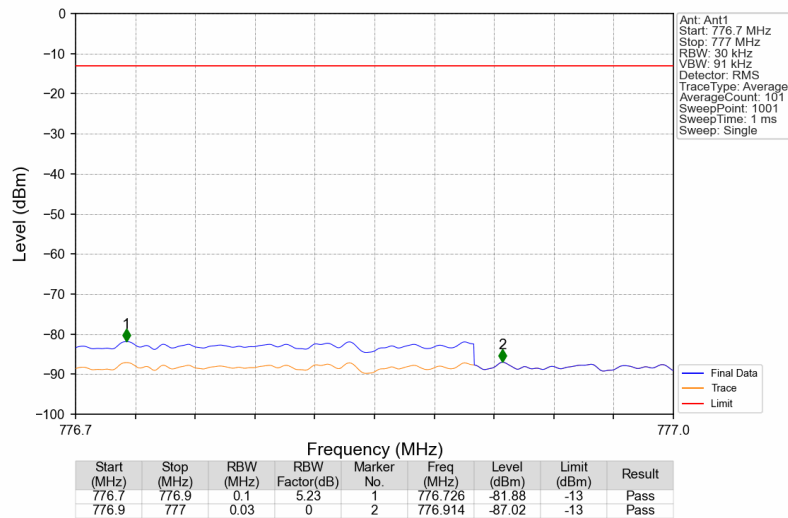
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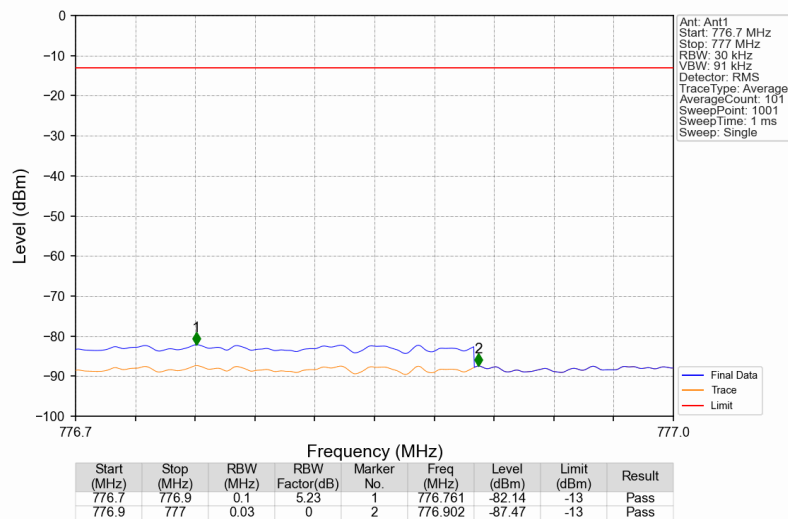
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Band13\_748.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC



Band13\_748.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3



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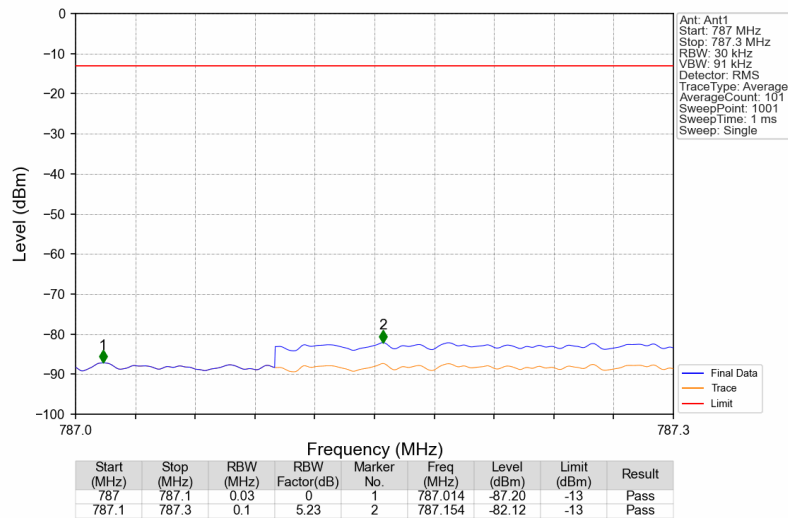
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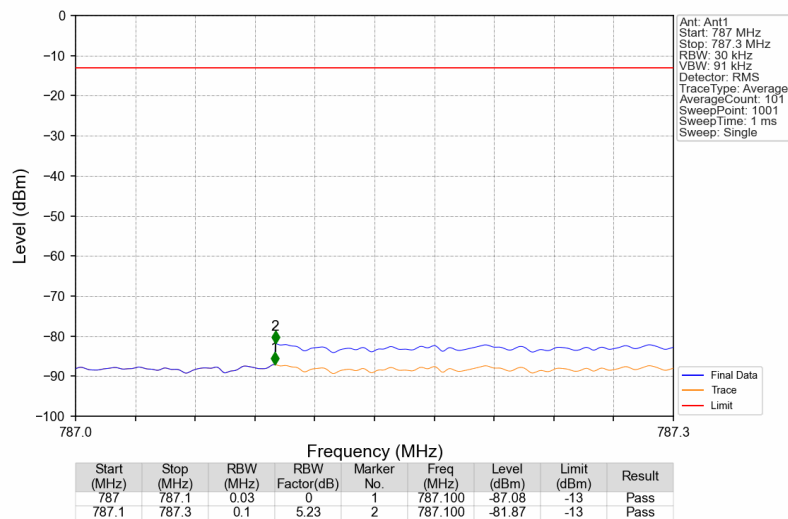
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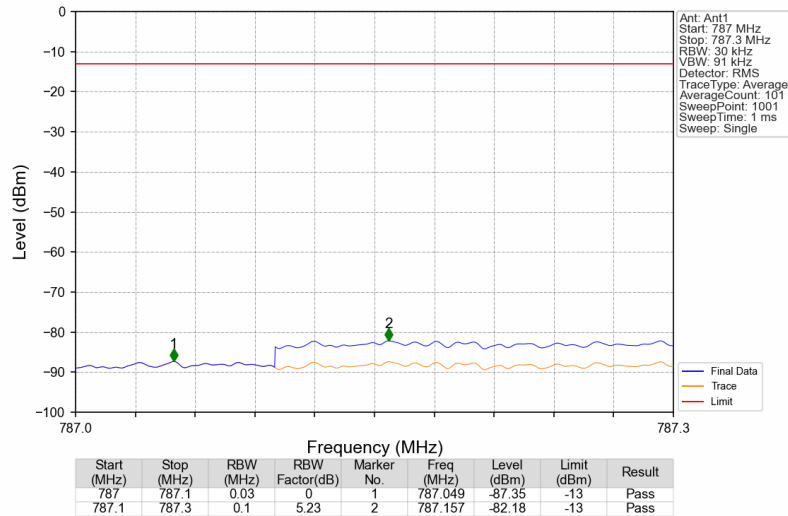
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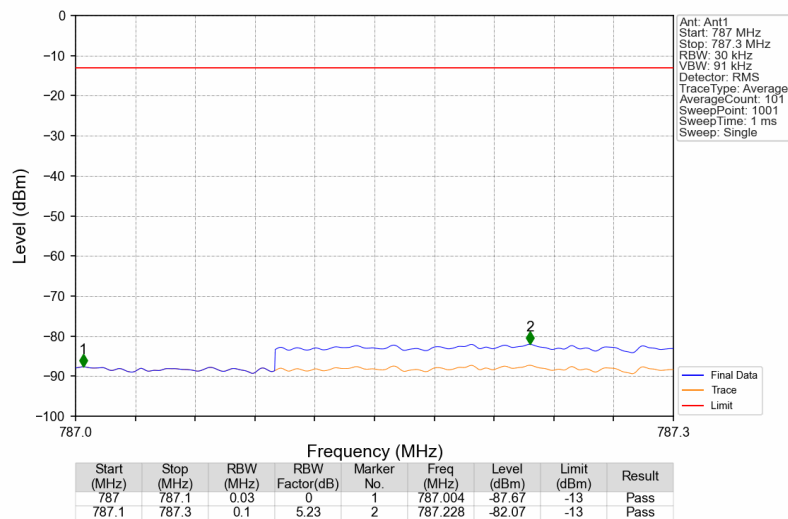
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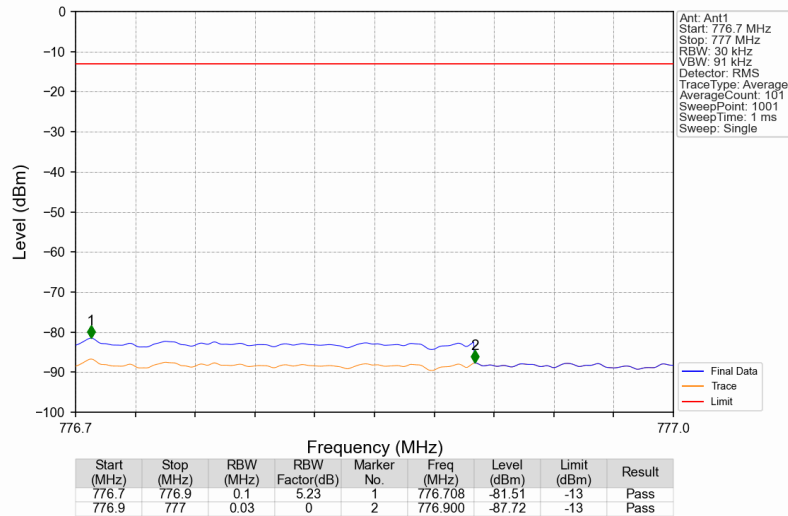
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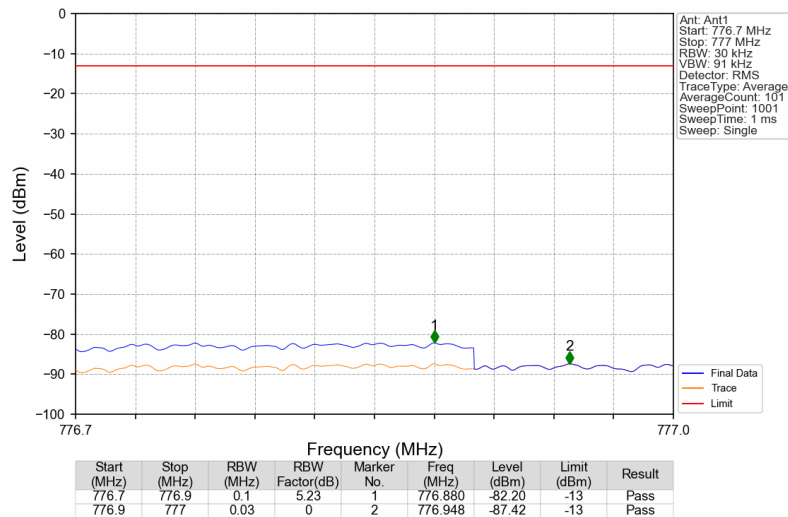
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Band13\_746.1MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



Band13\_746.1MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3



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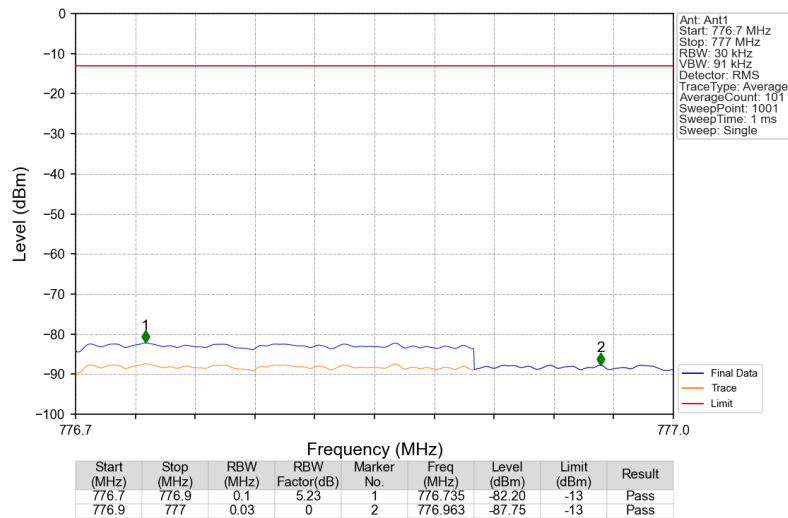
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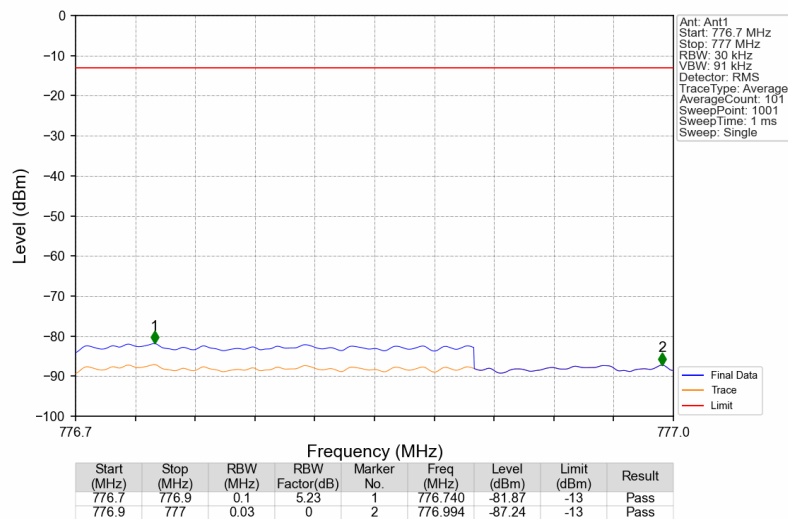
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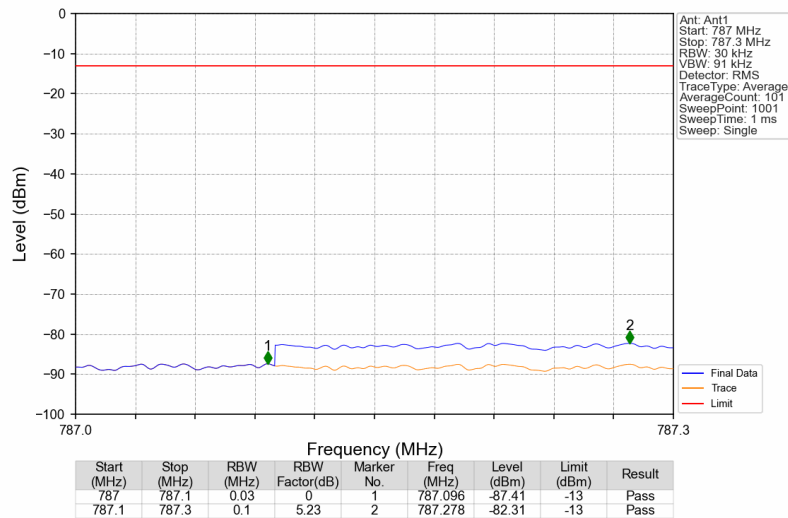
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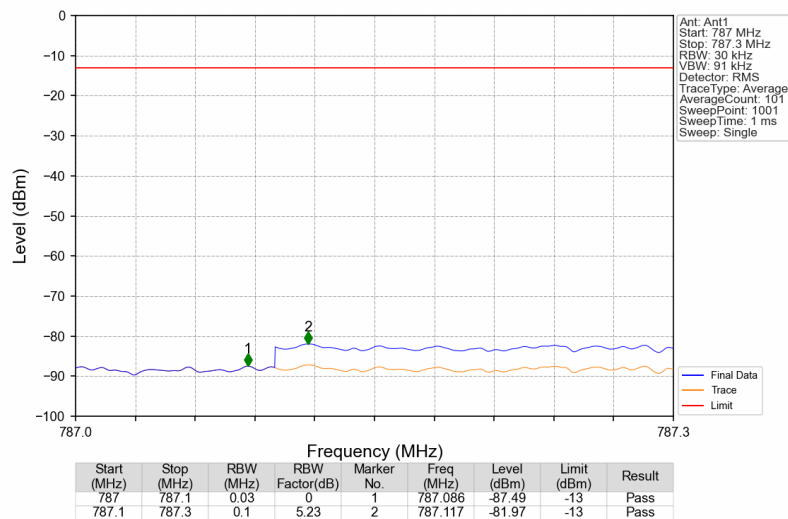
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Band13\_755.9MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



Band13\_755.9MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3



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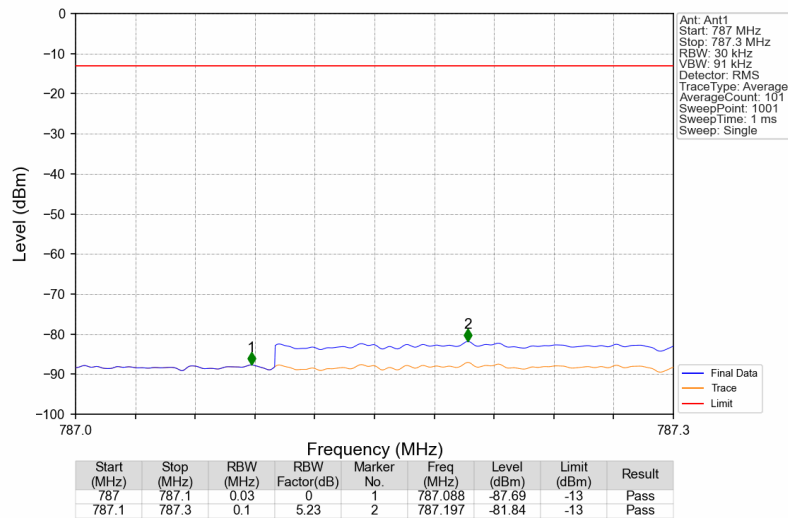
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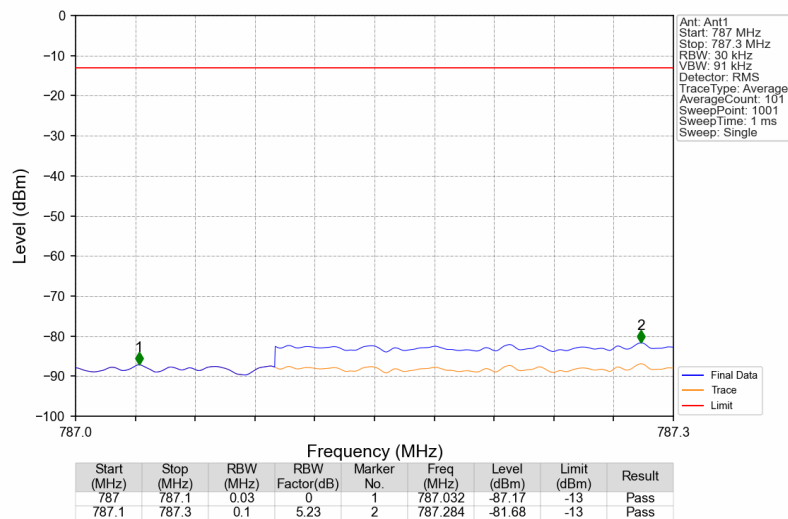
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## Band13\_755.9MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



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## 6. Spurious emissions

## 6.1 Band13

## 6.1.1 Test Result

Band: 13 / NTNV								
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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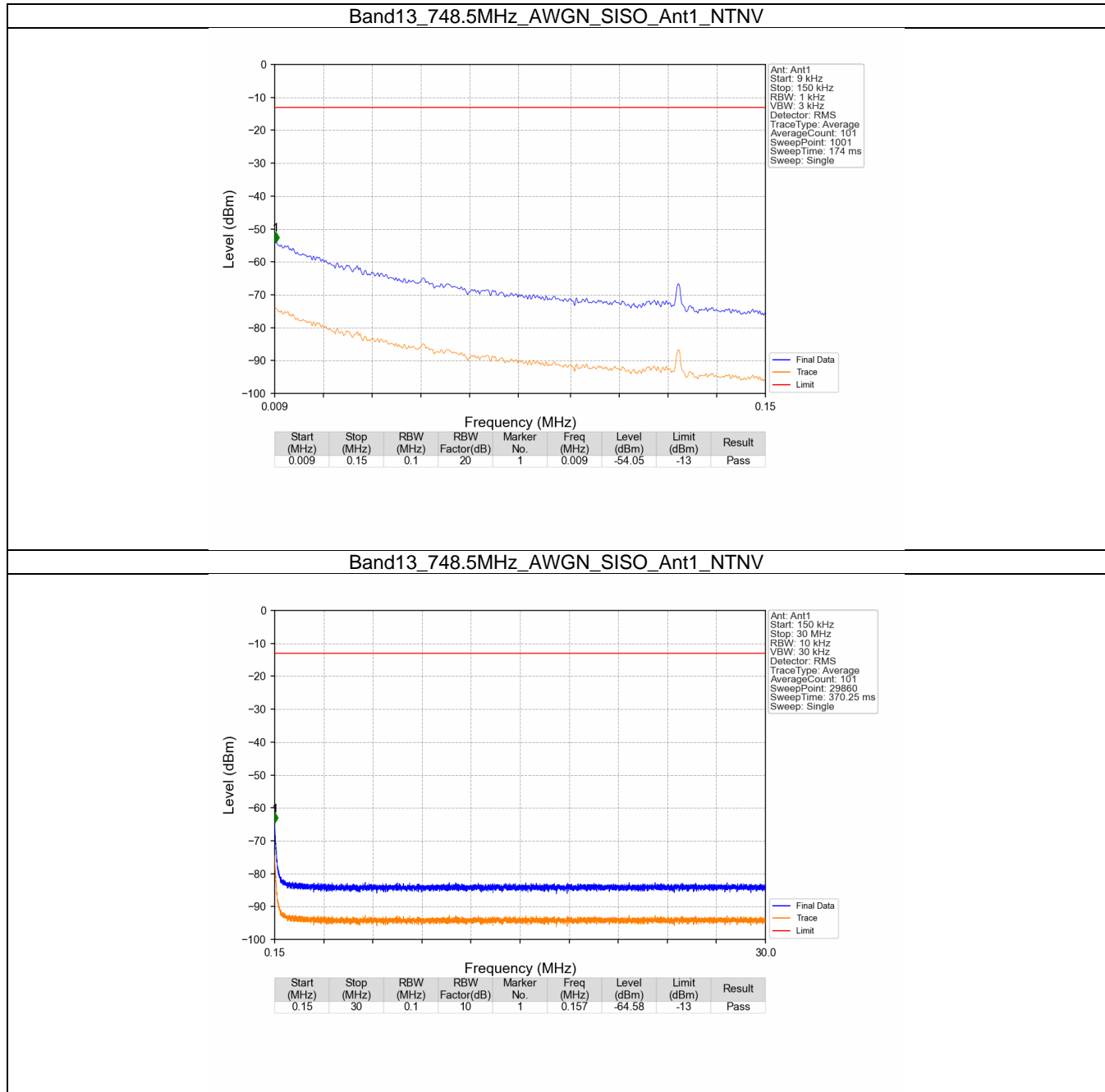
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### 6.1.2 Test Graph



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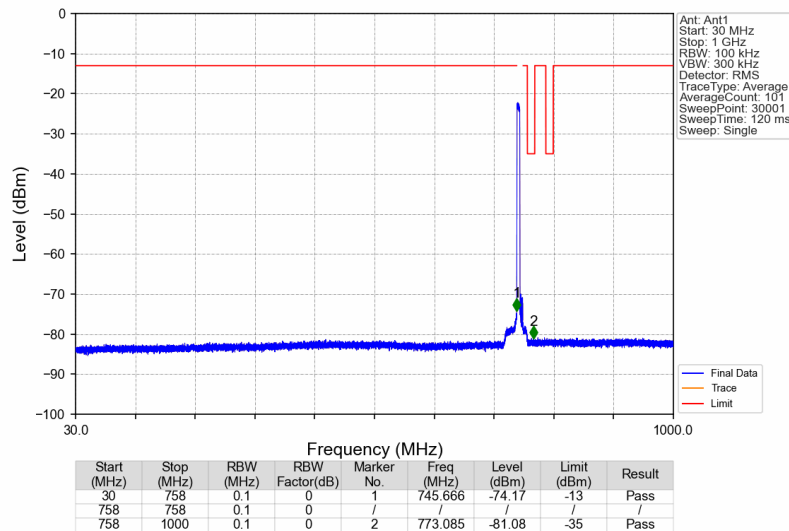
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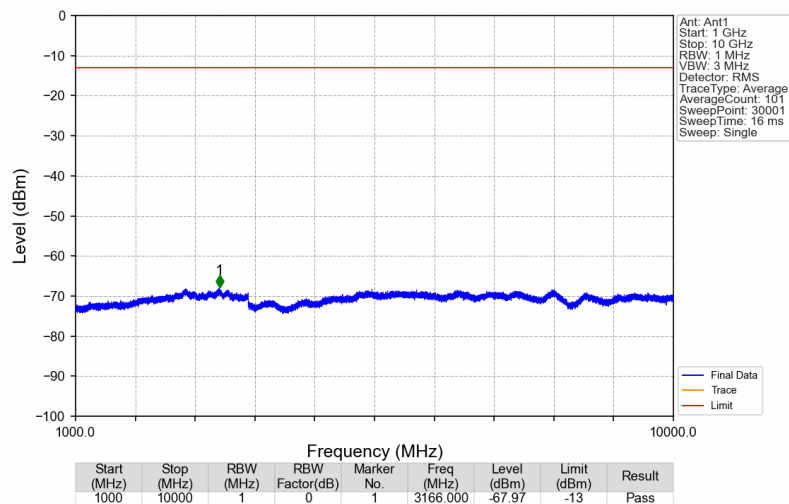
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Band13\_748.5MHz\_AWGN\_SISO\_Ant1\_NTNV



Band13\_748.5MHz\_AWGN\_SISO\_Ant1\_NTNV



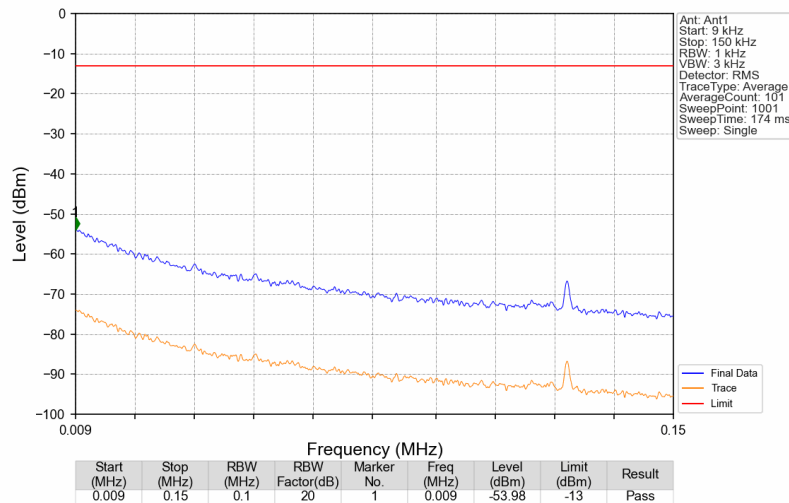
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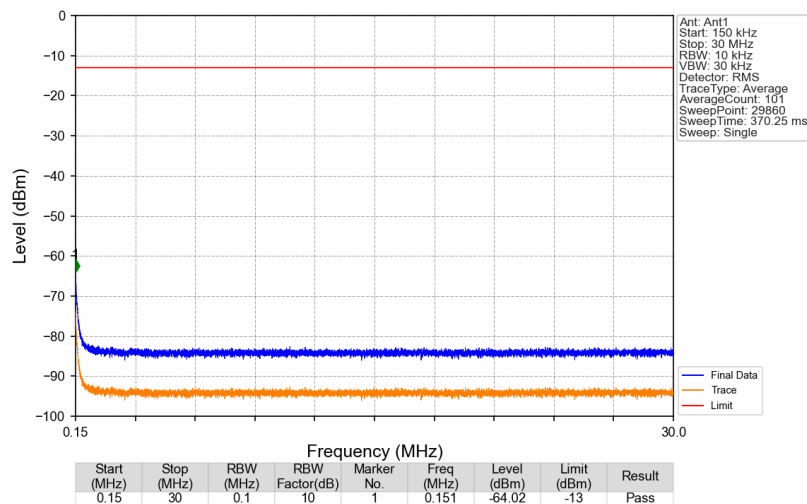
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Band13\_751MHz\_AWGN\_SISO\_Ant1\_NTNV



Band13\_751MHz\_AWGN\_SISO\_Ant1\_NTNV



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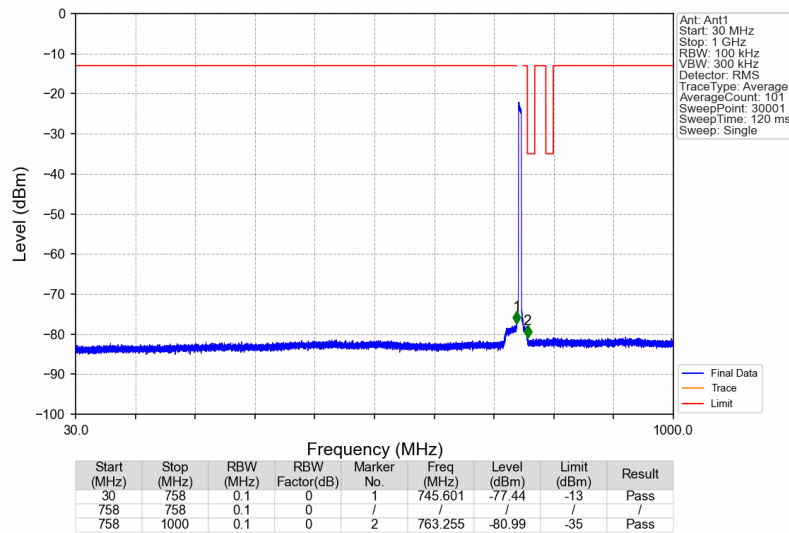
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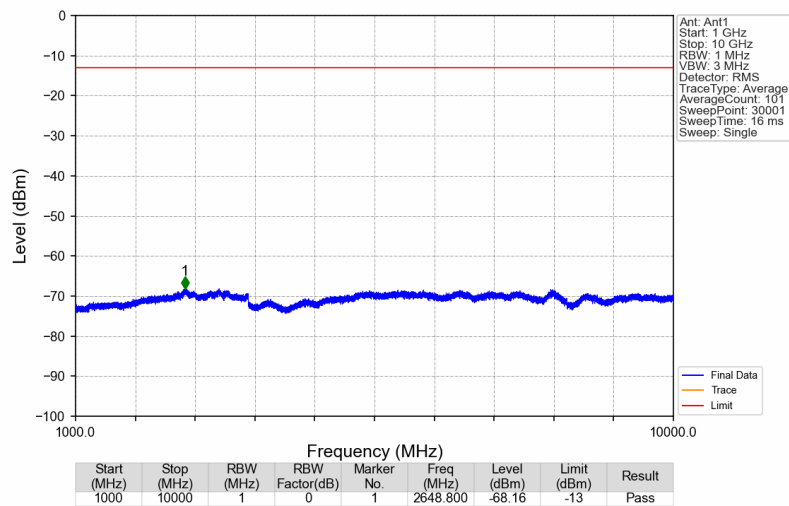
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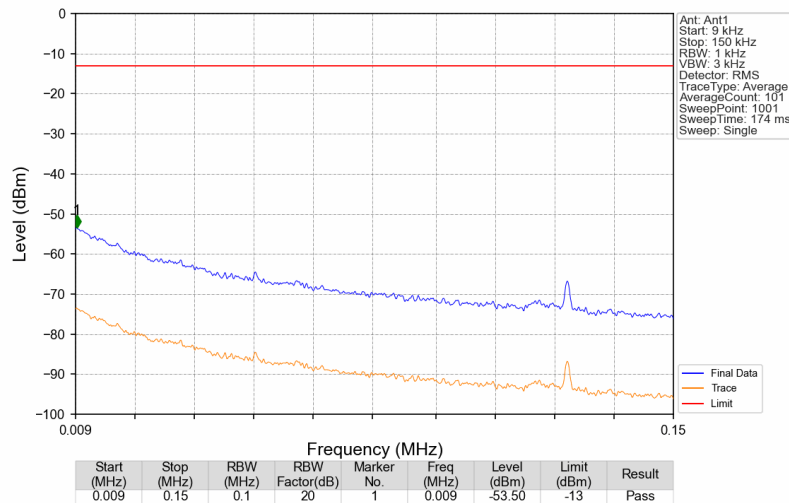


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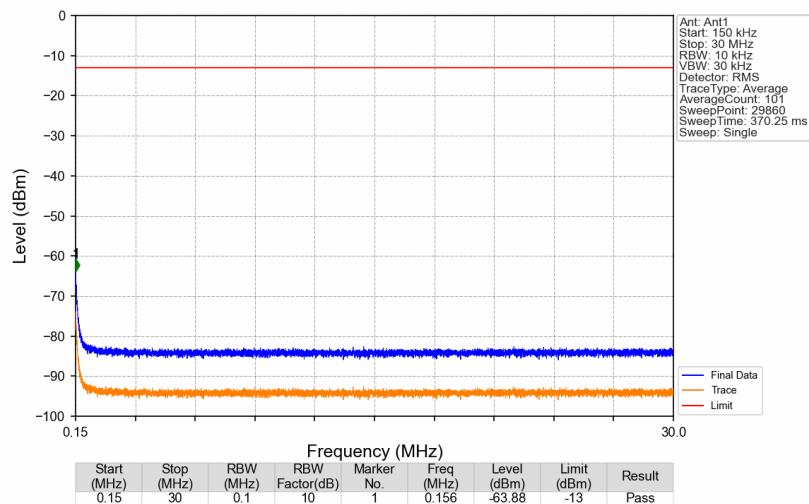




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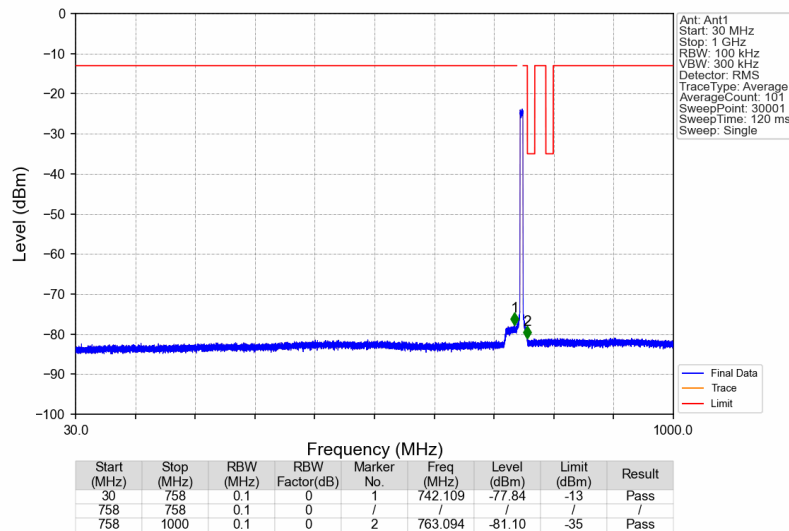
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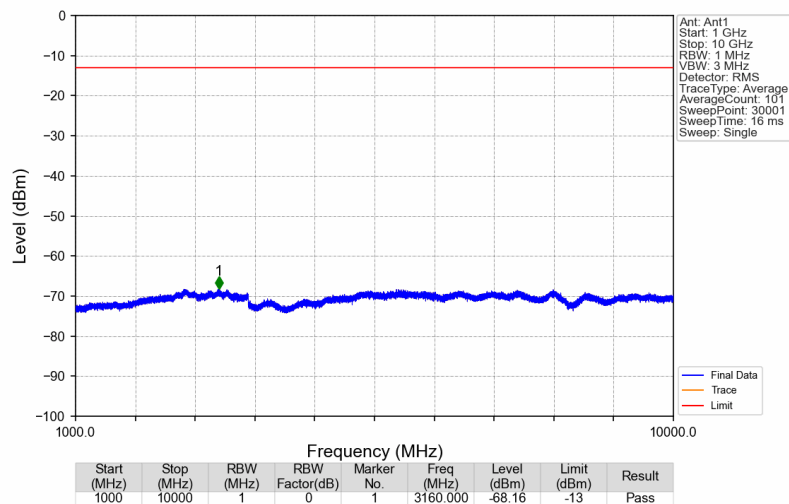
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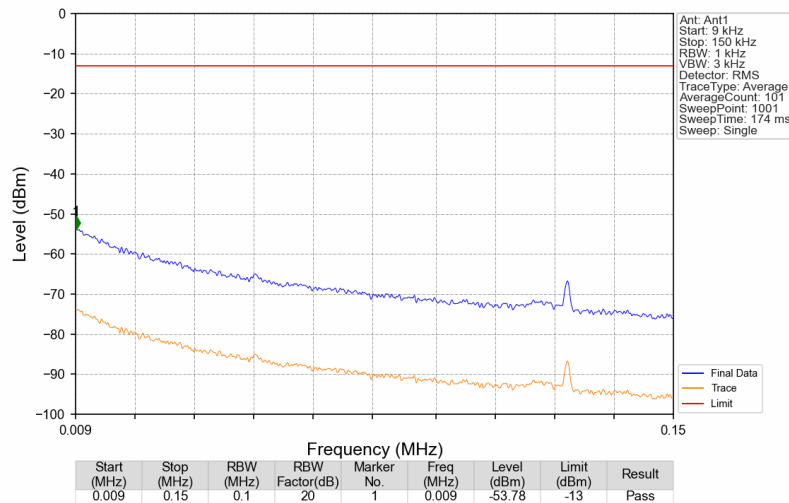
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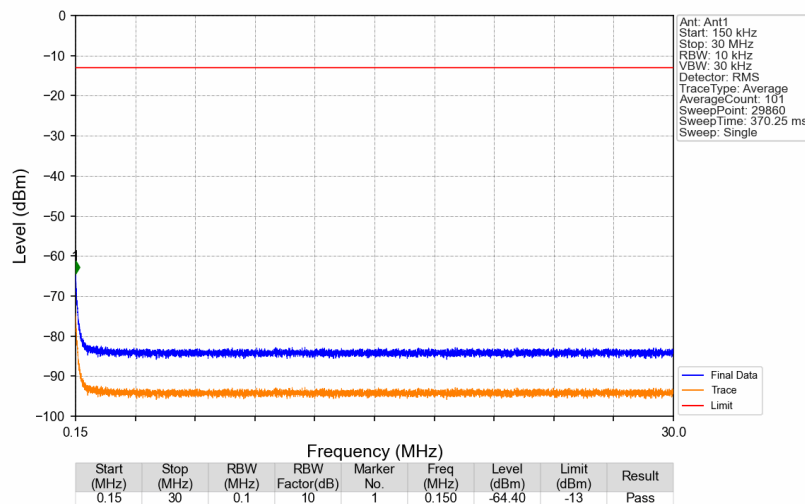
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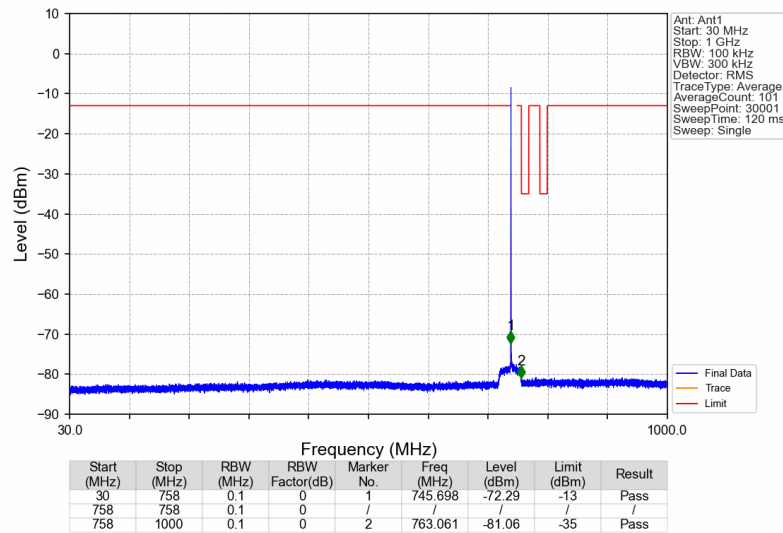
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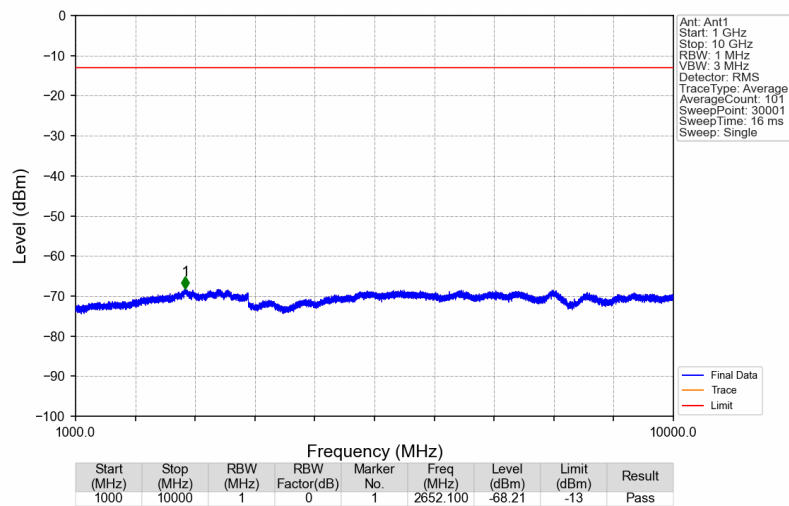
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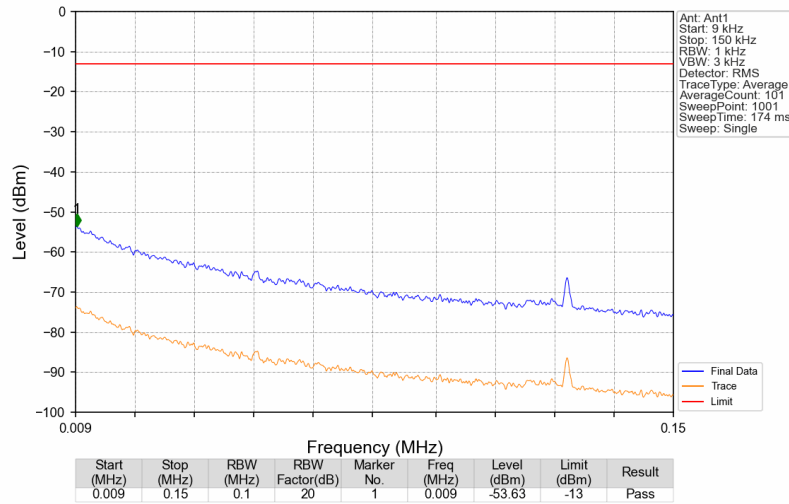
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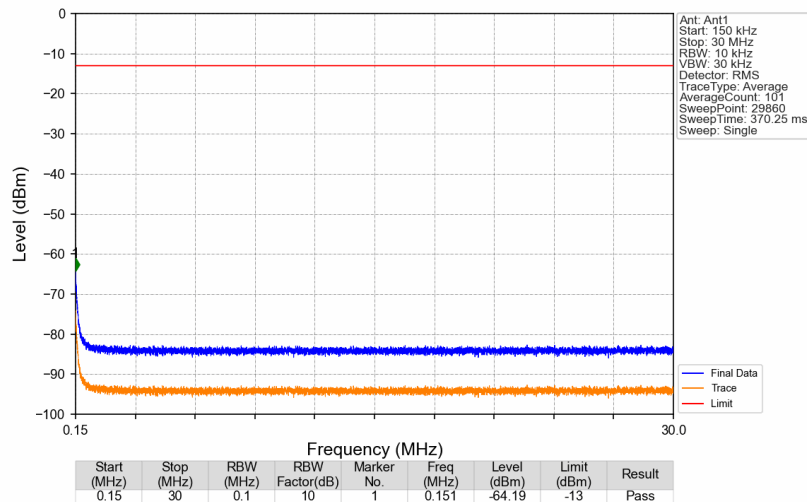
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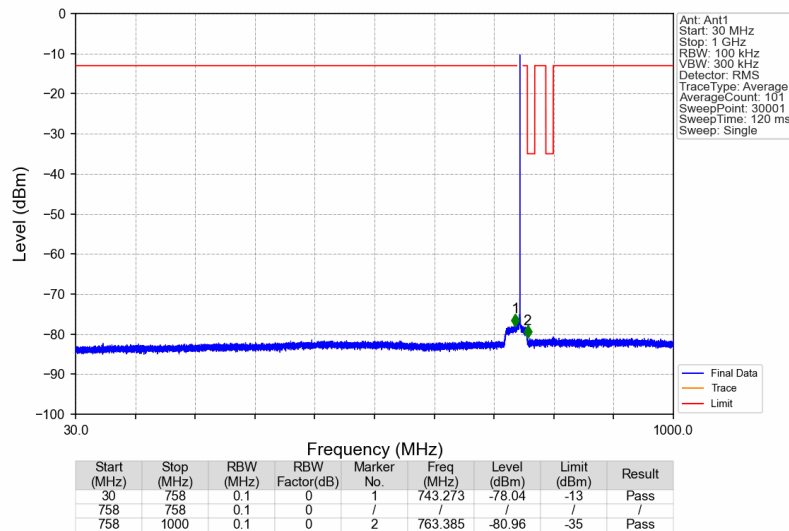
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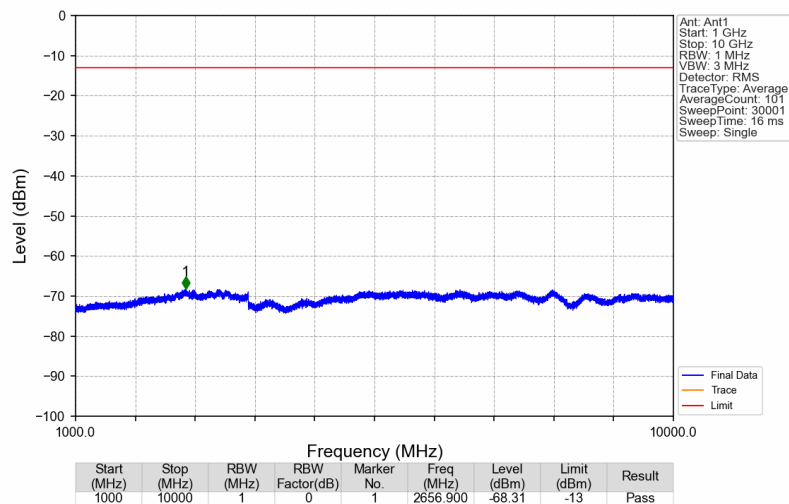
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## Band13\_751MHz\_GMSK\_SISO\_Ant1\_NTNV



## Band13\_751MHz\_GMSK\_SISO\_Ant1\_NTNV



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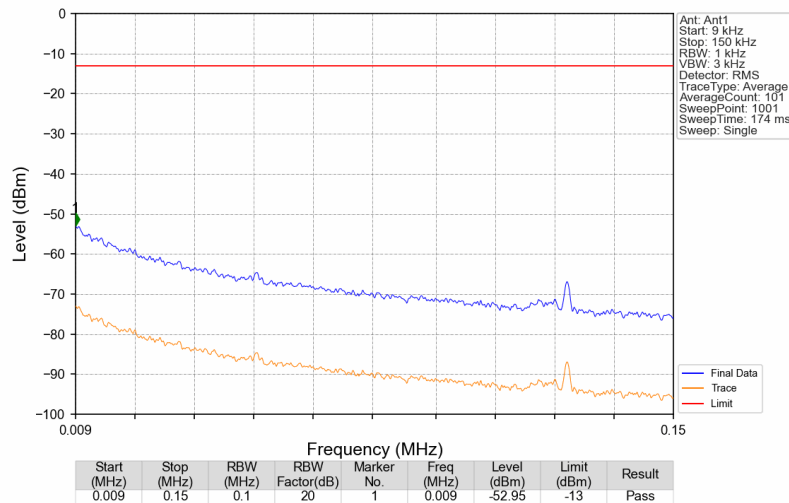
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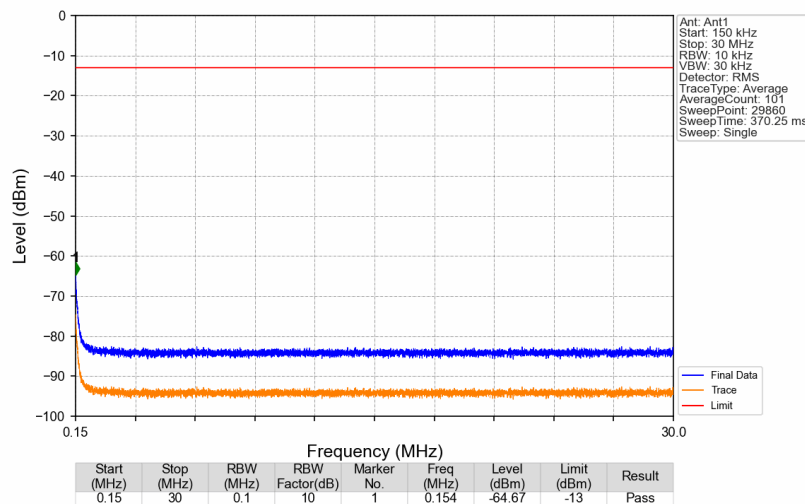
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Band13\_755.9MHz\_GMSK\_SISO\_Ant1\_NTNV



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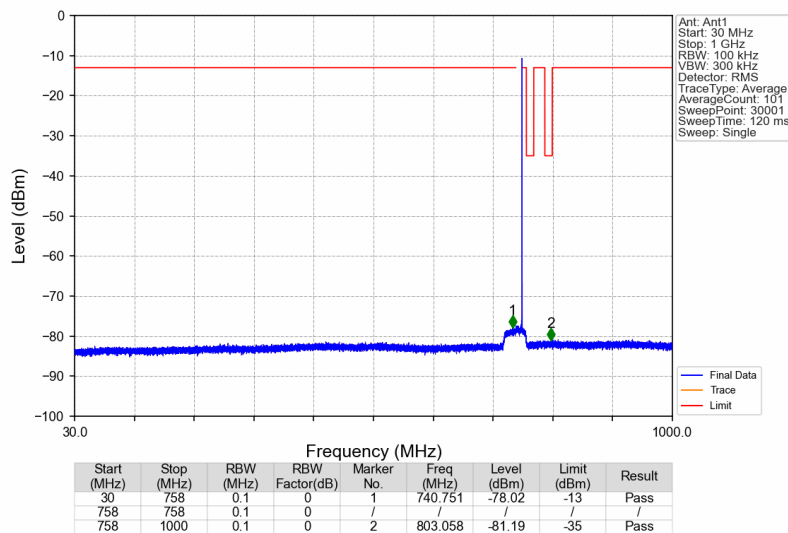
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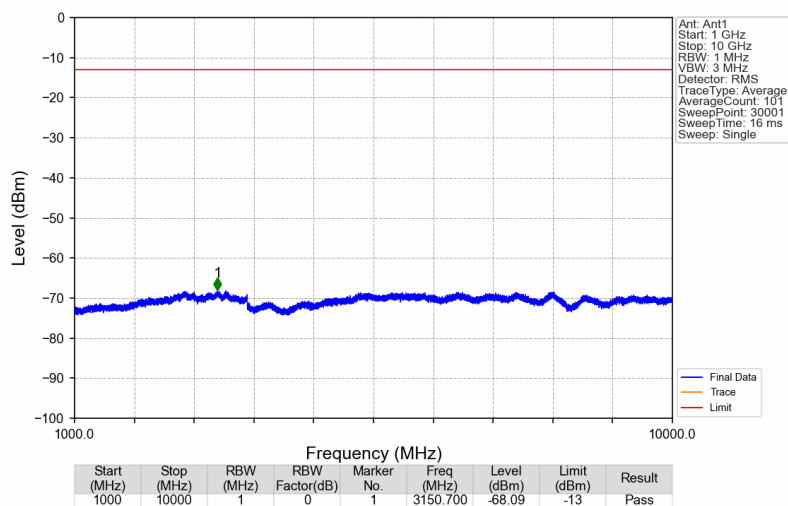
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## 7. Frequency stability measurements

### 7.1 Band13\_Ant1

#### 7.1.1 Test Result

Band: 13 / NTNV							
Signal			Temp (°C)	Voltage (VAC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict
Type	Level (dBm)	Frequency (MHz)					
-30CW	-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
			-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
			-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
			-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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