

Appendix C for KSCR2209001813AT-FCC-Booster-NR14

1. Out of band rejection

1.1 Band14

1.1.1 Test Result

Band: 14 / NTN							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	738 - 788	SISO	1	761.350	757.700	768.300	Pass

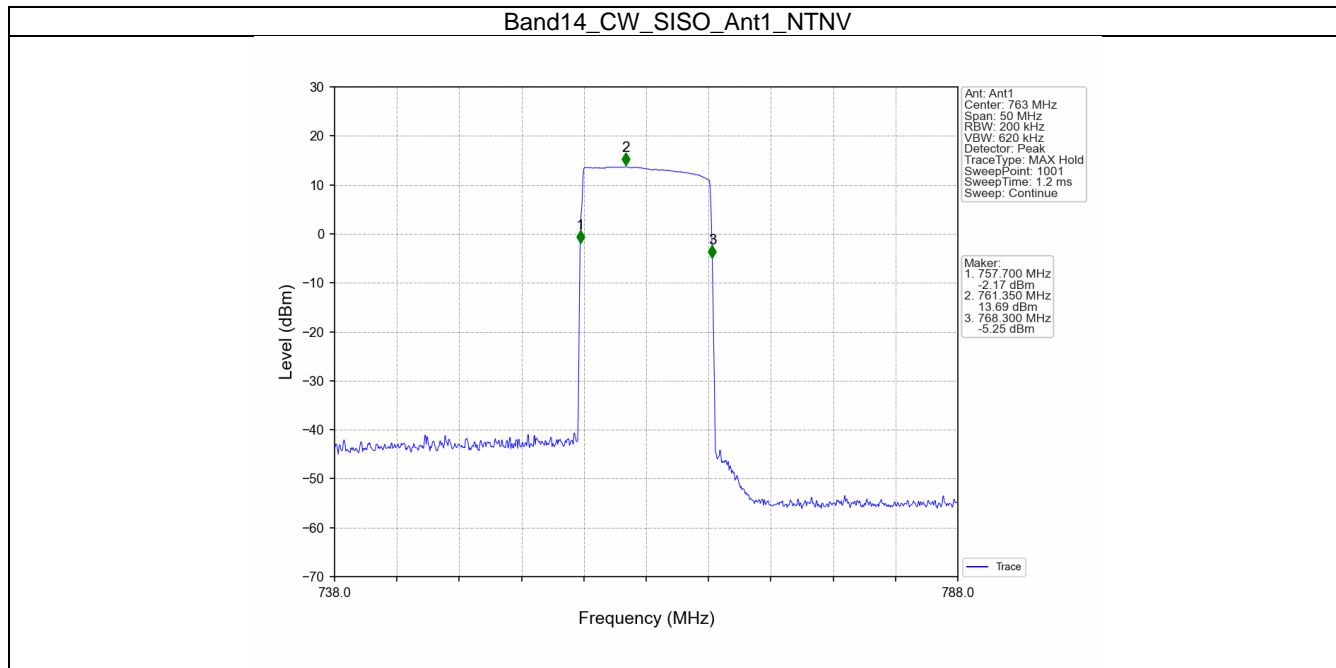
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1.1.2 Test Graph



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2. AGC threshold

2.1 Band14

2.1.1 Test Result

Band: 14 / NTV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
AWGN	761.35	SISO	1	-2.20	Pass
GMSK	761.35	SISO	1	-1.20	Pass



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### 3. Input-versus-output signal comparison

#### 3.1 Band14\_OBW

##### 3.1.1 Test Result

Band: 14 / NTV							
Type	Signal		TX Type	ANT	99% OBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	0.8	761.35	SISO	1	4.524	4.535	Pass
	-2.2	761.35	SISO	1	4.531	4.540	Pass
GMSK	1.8	761.35	SISO	1	0.244	0.244	Pass
	-1.2	761.35	SISO	1	0.244	0.243	Pass

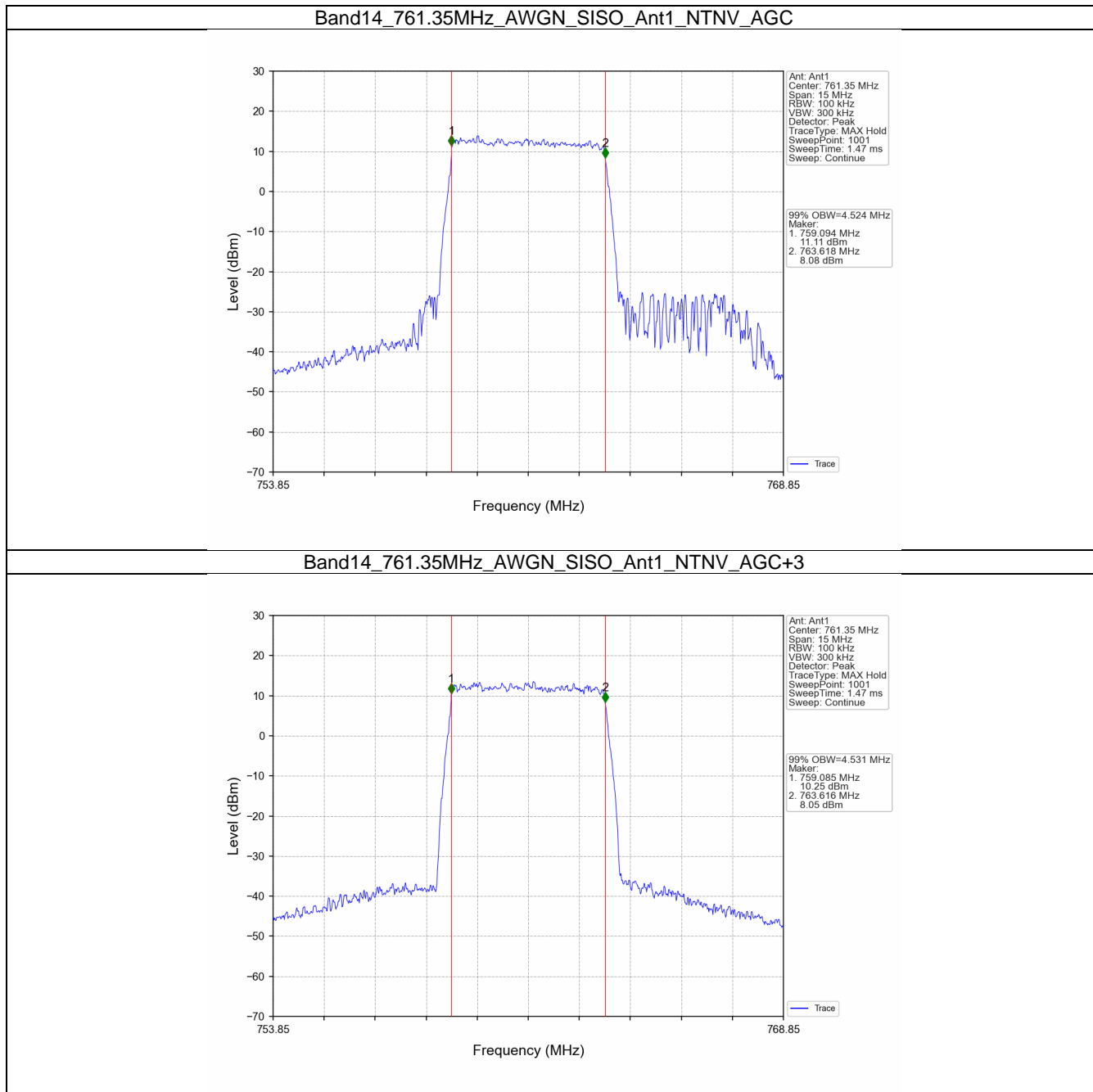


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## 3.1.2 Test Graph



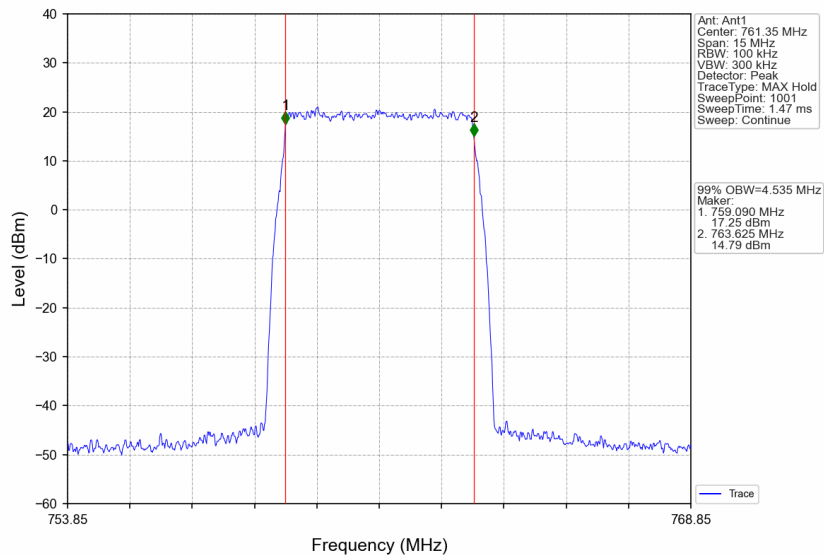
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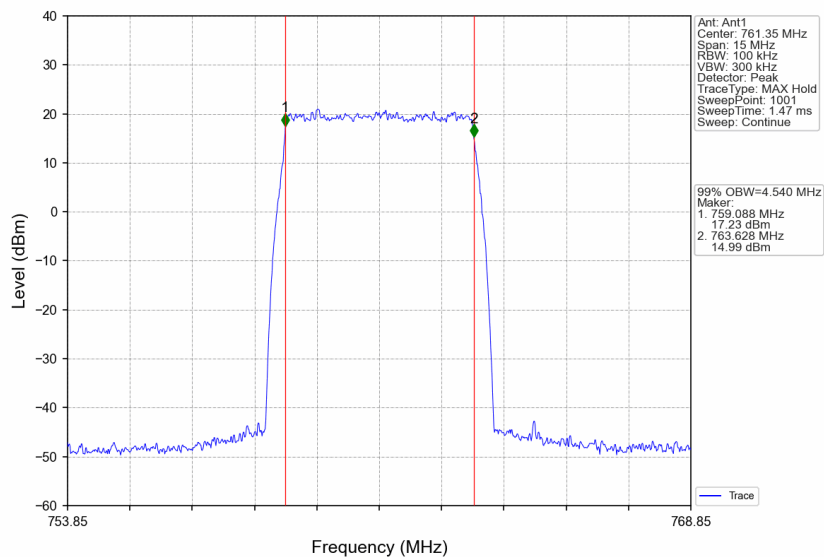
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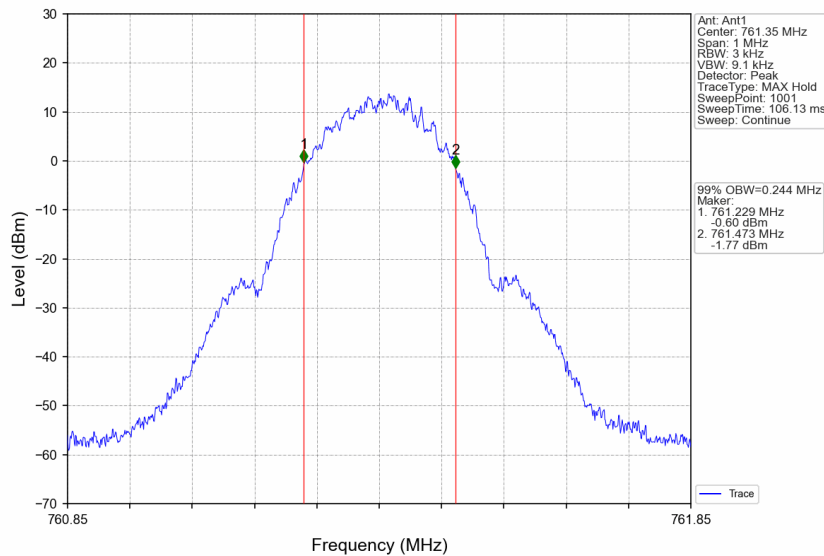
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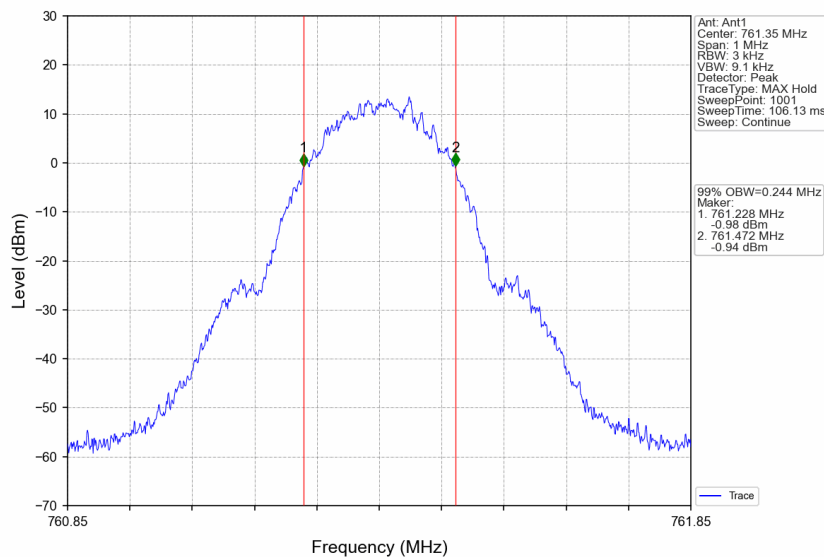
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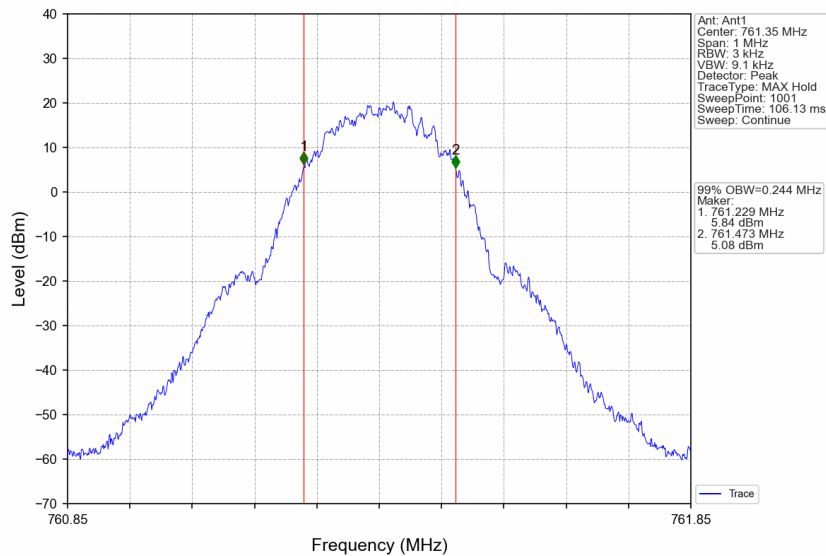
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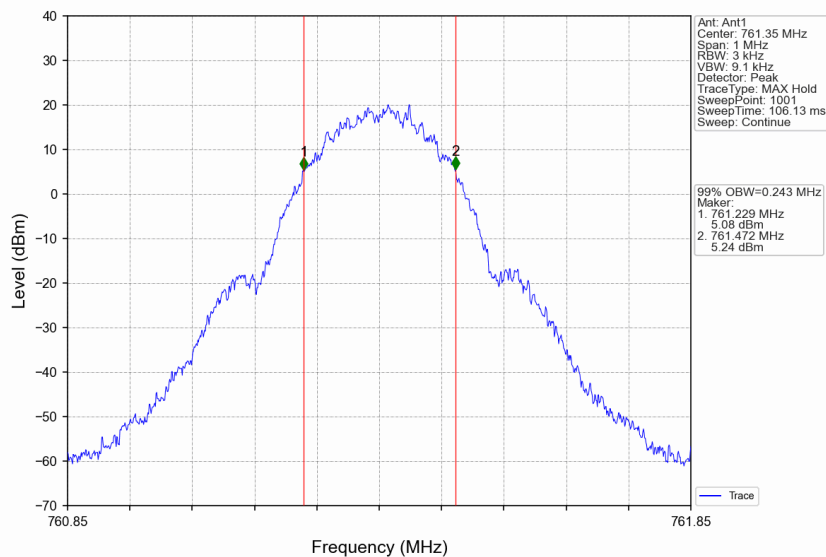
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3.2 Band14\_EBW

3.2.1 Test Result

Band: 14 / NTNV							
Type	Signal		TX Type	ANT	26dB EBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	0.8	761.35	SISO	1	5.060	5.063	Pass
	-2.2	761.35	SISO	1	5.050	5.069	Pass
GMSK	1.8	761.35	SISO	1	0.313	0.317	Pass
	-1.2	761.35	SISO	1	0.313	0.313	Pass



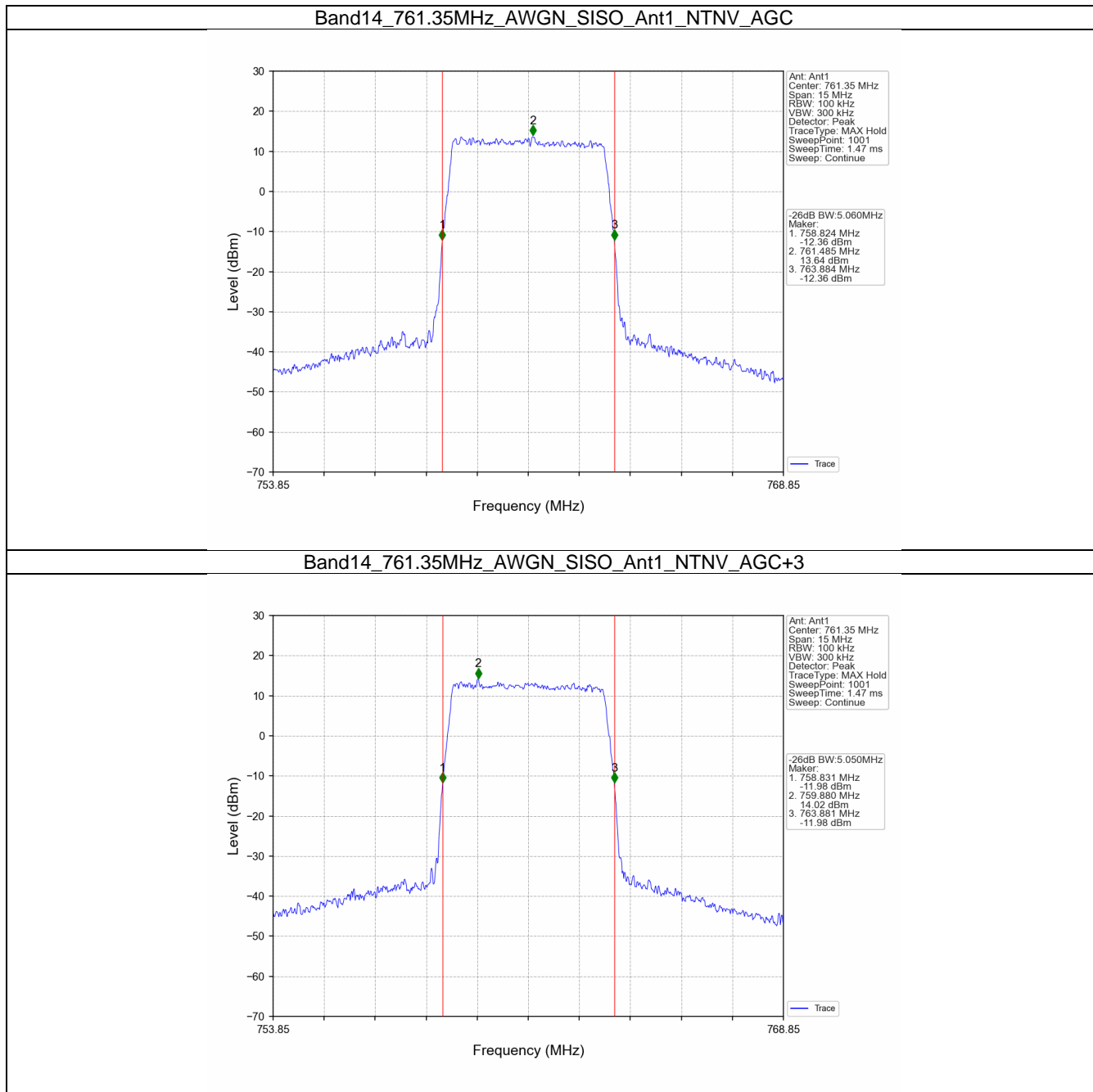
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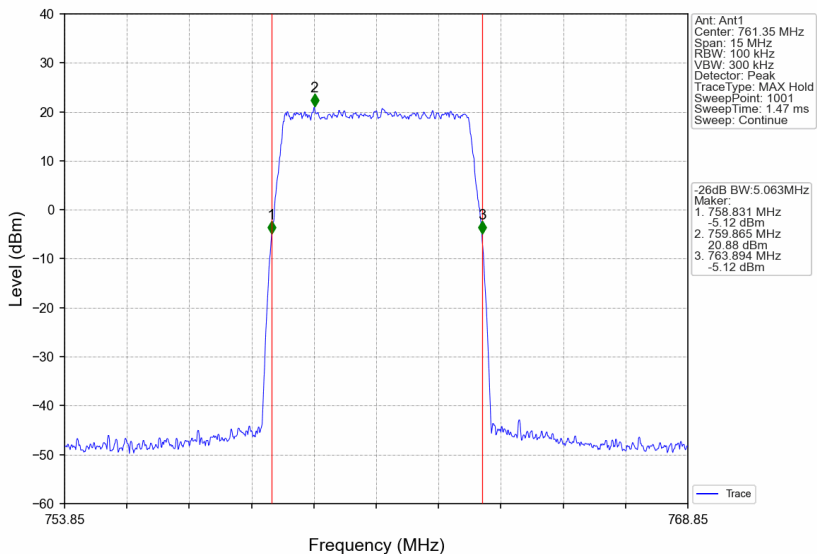
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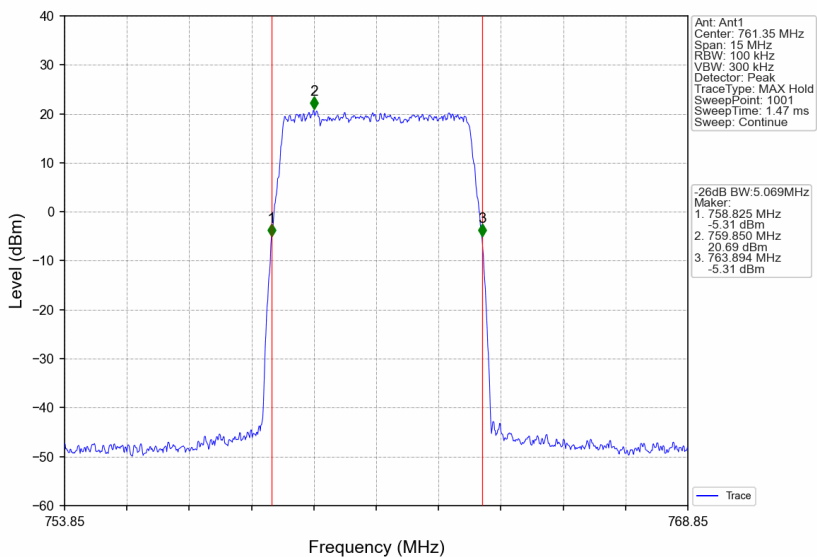
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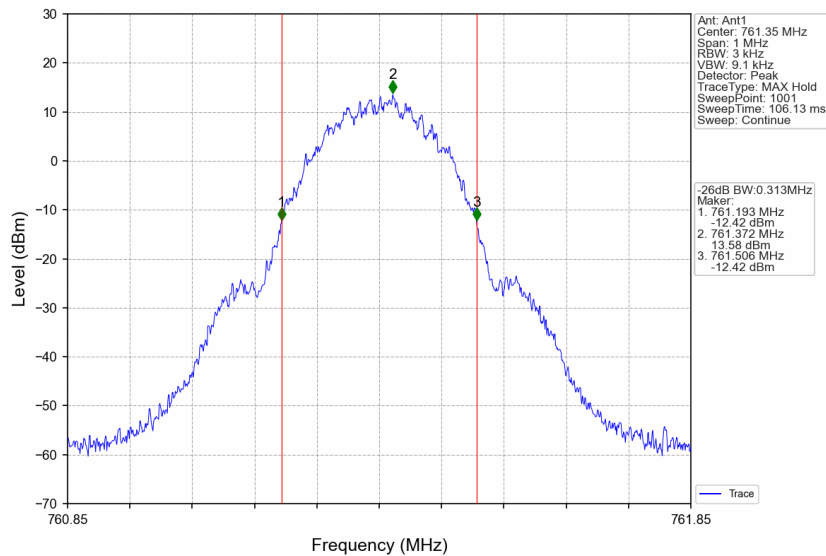
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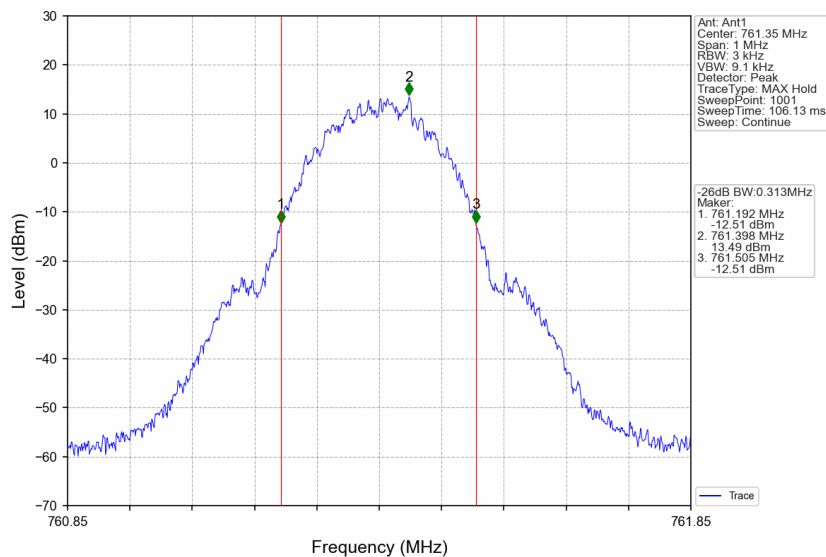
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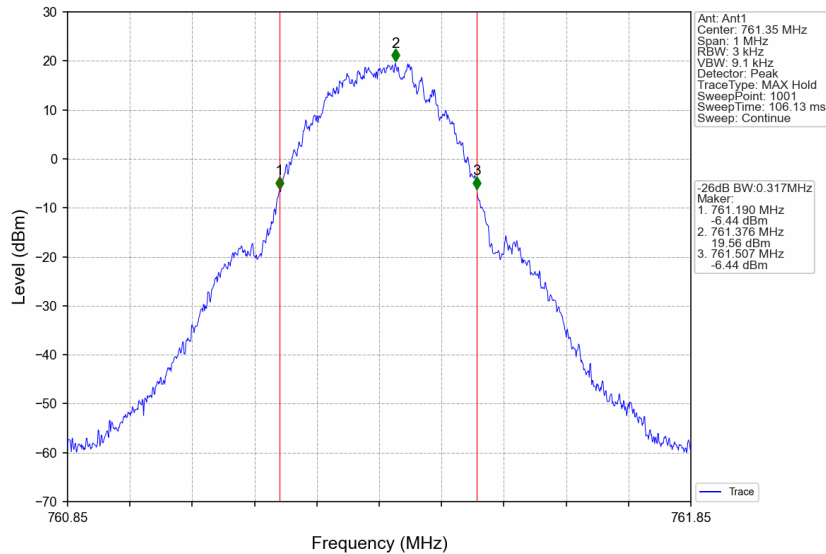
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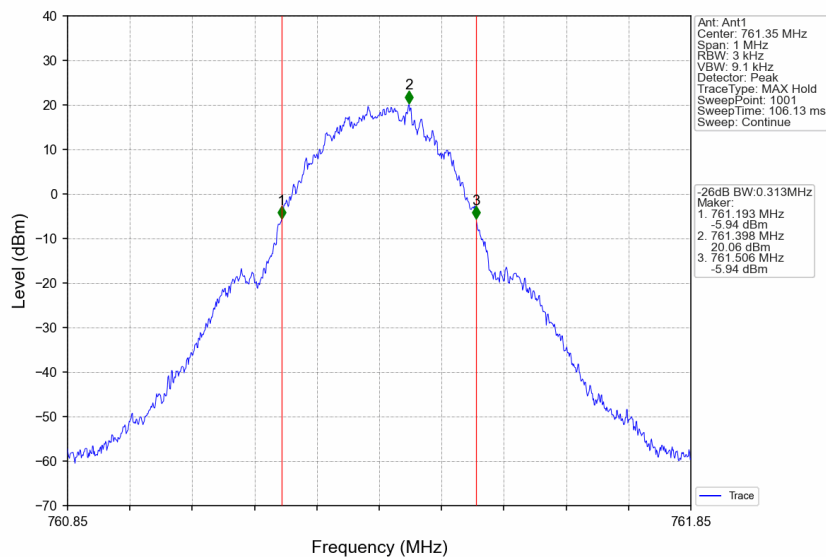
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4. Input/output power and amplifier/booster gain

4.1 Band14\_ERP

4.1.1 Test Result

Band: 14 / 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	761.35	SISO	1	10.55	-6.76	11.01	<=60	17.31	Pass
	0.8	761.35	SISO	1	10.56	-3.57	11.02	<=60	/	Pass
GMSK	-1.2	761.35	SISO	1	17.16	-0.25	17.62	<=60	17.41	Pass
	1.8	761.35	SISO	1	17.21	2.76	17.67	<=60	/	Pass

Band: 14 / NTV							
Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Total Output Power (dBm)	ERP(dBm)	Gain (dB)
					SISO		
746MHz-756MHz	761.35	AWGN	Pre-AGC	-2.2	17.15	17.61	/
			3dB Above AGC	0.8	17.19	17.65	/
	761.35	GMSK	Pre-AGC	-1.2	17.16	17.62	/
			3dB Above AGC	1.8	17.21	17.67	/

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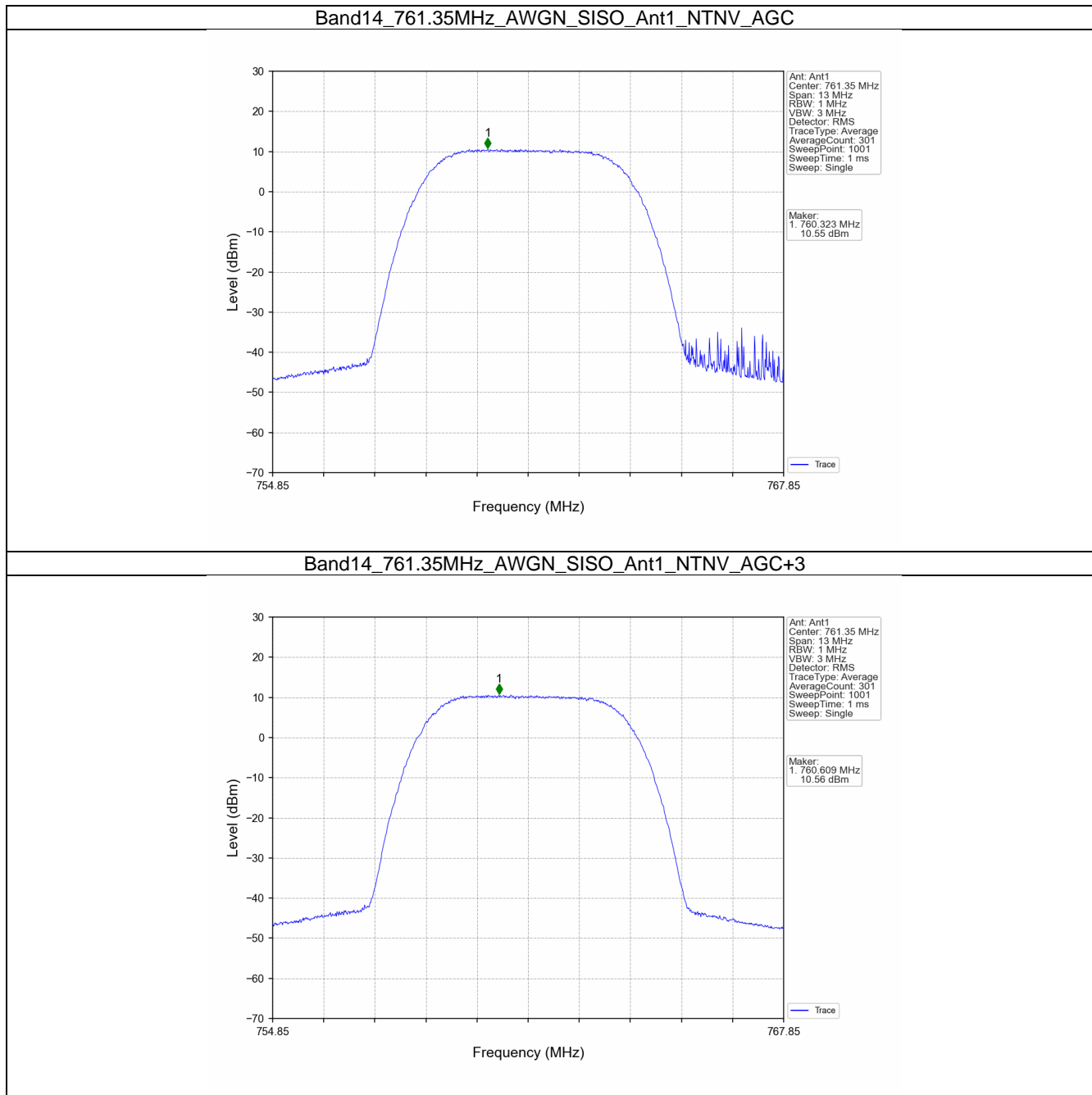
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4.1.2 Test Graph



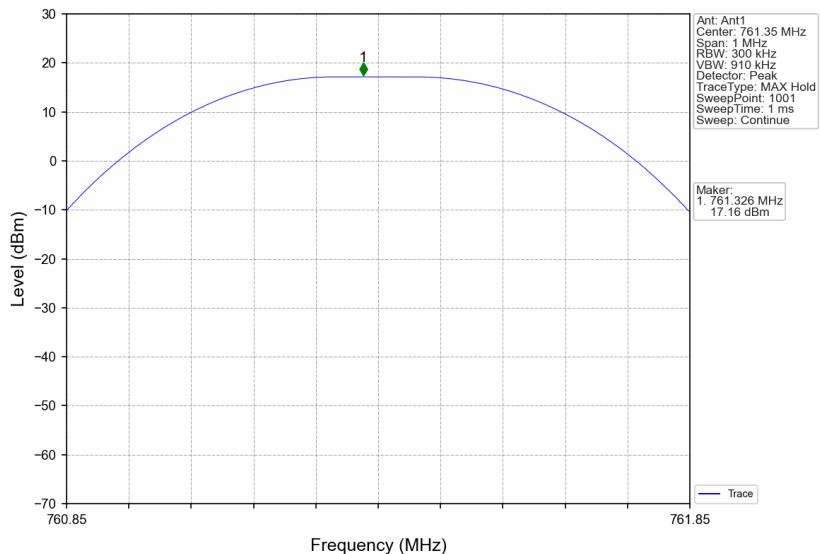
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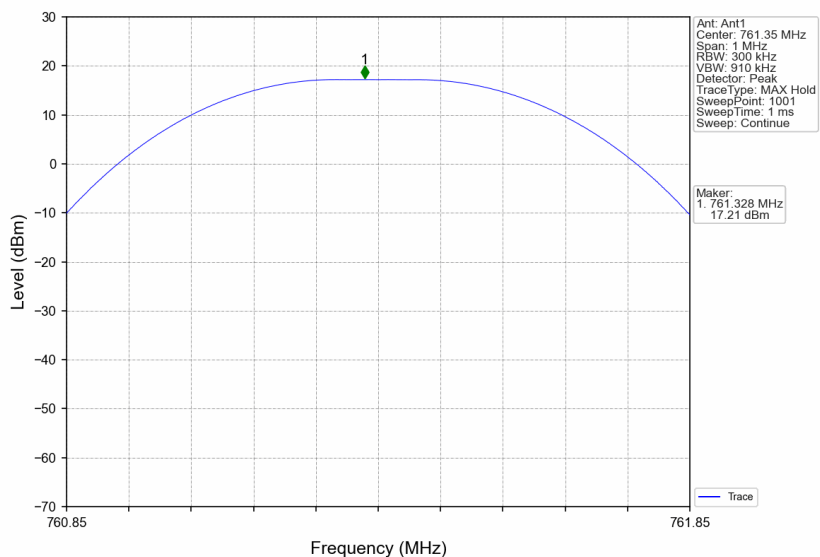
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4.2 Band14\_PAPR

4.2.1 Test Result

Band: 14 / NTNV							
Type	Signal		TX Type	ANT	PAPR (dB)		Verdict
	Level (dBm)	Frequency (MHz)			Result	Limit	
AWGN	-2.2	761.35	SISO	1	8.36	<=13	Pass
	0.8	761.35	SISO	1	8.33	<=13	Pass
GMSK	-1.2	761.35	SISO	1	0.40	<=13	Pass
	1.8	761.35	SISO	1	0.30	<=13	Pass



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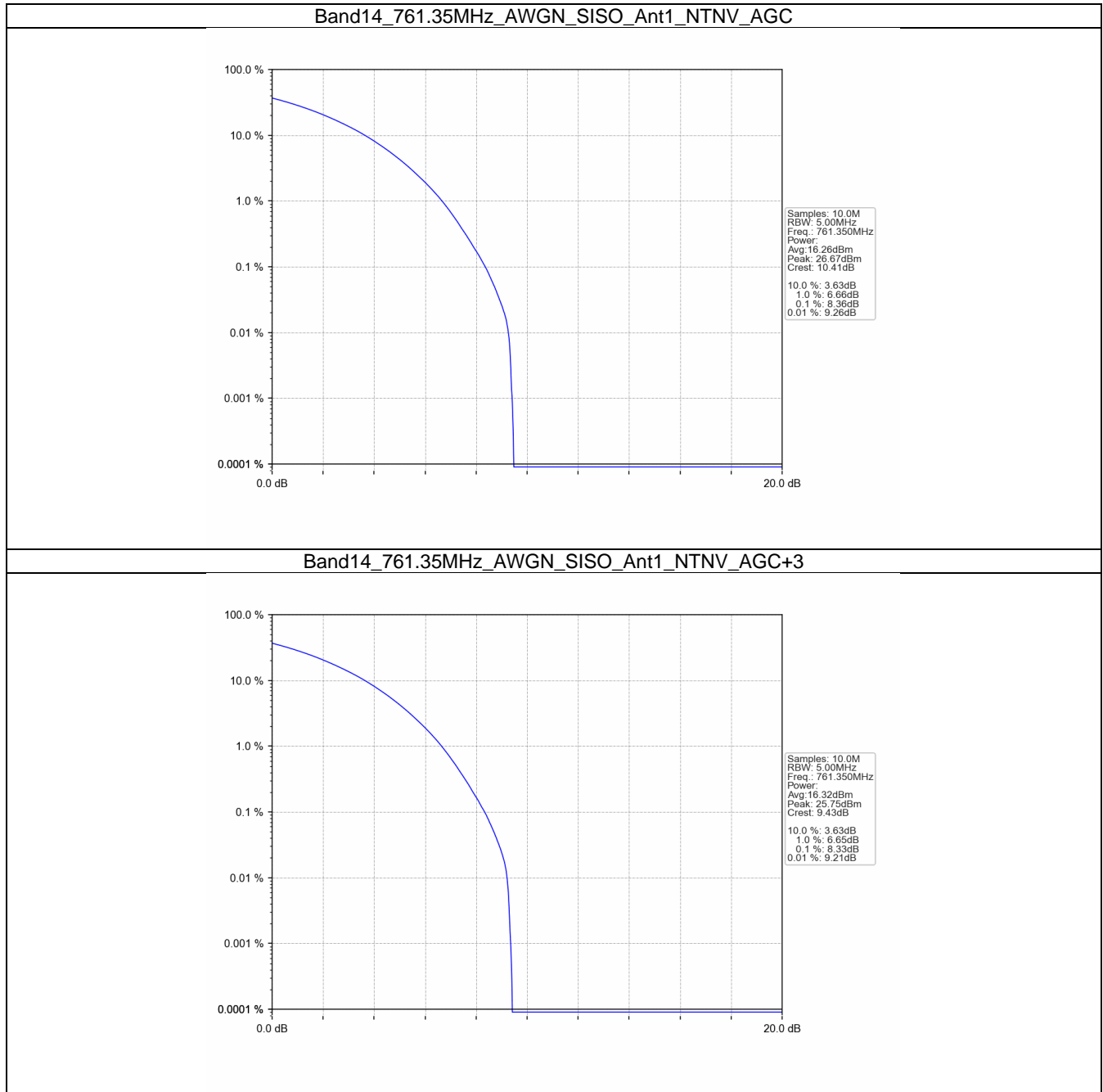
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4.2.2 Test Graph



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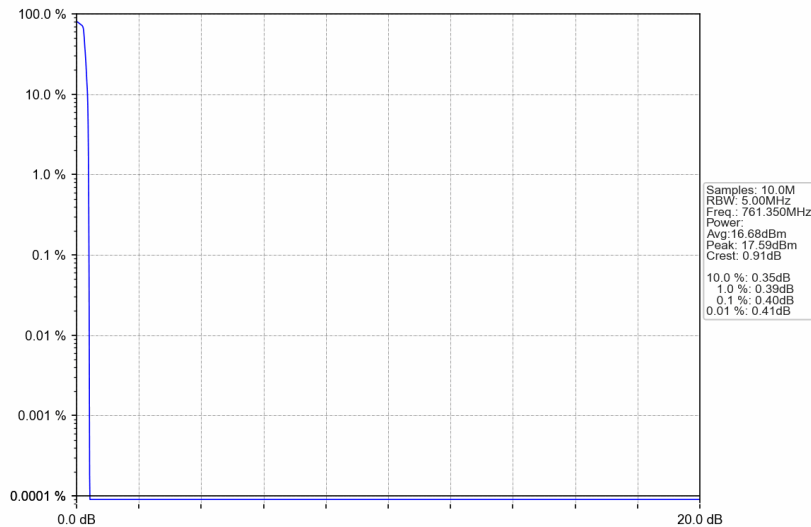
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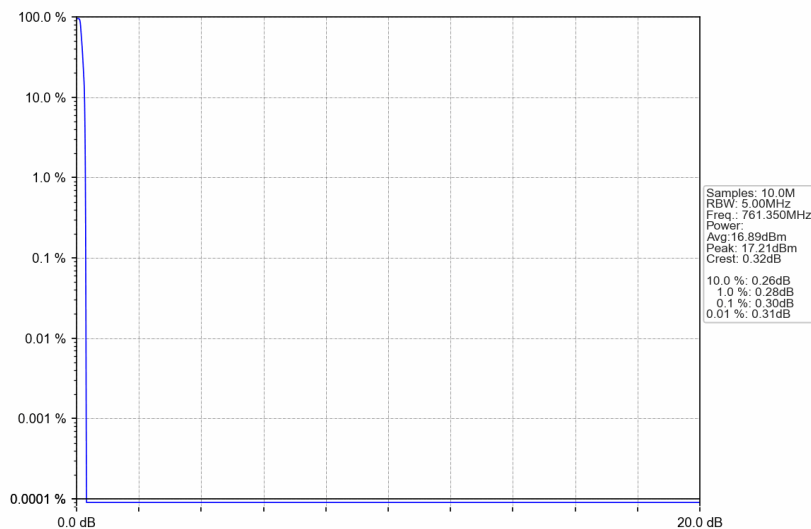
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5. Out-of-band/out-of-block (including intermodulation) emissions

5.1 Band14

5.1.1 Test Result

Band: 14 / NTV									
Signal				Channel	TX Type	ANT	OOB (dBm)		Verdict
Input	Type	Level (dBm)	Frequency (MHz)				Result	Limit	
Two	AWGN	-2.2	760.5	LCH	SISO	1	-81.70	Refer To Test Graph	Pass
		0.8	760.5	LCH	SISO	1	-81.84	Refer To Test Graph	Pass
One	AWGN	-2.2	760.5	LCH	SISO	1	-81.40	Refer To Test Graph	Pass
		0.8	760.5	LCH	SISO	1	-81.90	Refer To Test Graph	Pass
Two	AWGN	-2.2	765.5	HCH	SISO	1	-81.66	Refer To Test Graph	Pass
		0.8	765.5	HCH	SISO	1	-81.90	Refer To Test Graph	Pass
One	AWGN	-2.2	765.5	HCH	SISO	1	-81.81	Refer To Test Graph	Pass
		0.8	765.5	HCH	SISO	1	-81.81	Refer To Test Graph	Pass
Two	GMSK	-1.2	758.1	LCH	SISO	1	-81.80	Refer To Test Graph	Pass
		1.8	758.1	LCH	SISO	1	-81.84	Refer To Test Graph	Pass
One	GMSK	-1.2	758.1	LCH	SISO	1	-81.82	Refer To Test Graph	Pass
		1.8	758.1	LCH	SISO	1	-81.82	Refer To Test Graph	Pass
Two	GMSK	-1.2	767.9	HCH	SISO	1	-81.56	Refer To Test Graph	Pass
		1.8	767.9	HCH	SISO	1	-81.84	Refer To Test Graph	Pass
One	GMSK	-1.2	767.9	HCH	SISO	1	-81.72	Refer To Test Graph	Pass
		1.8	767.9	HCH	SISO	1	-81.70	Refer To Test Graph	Pass



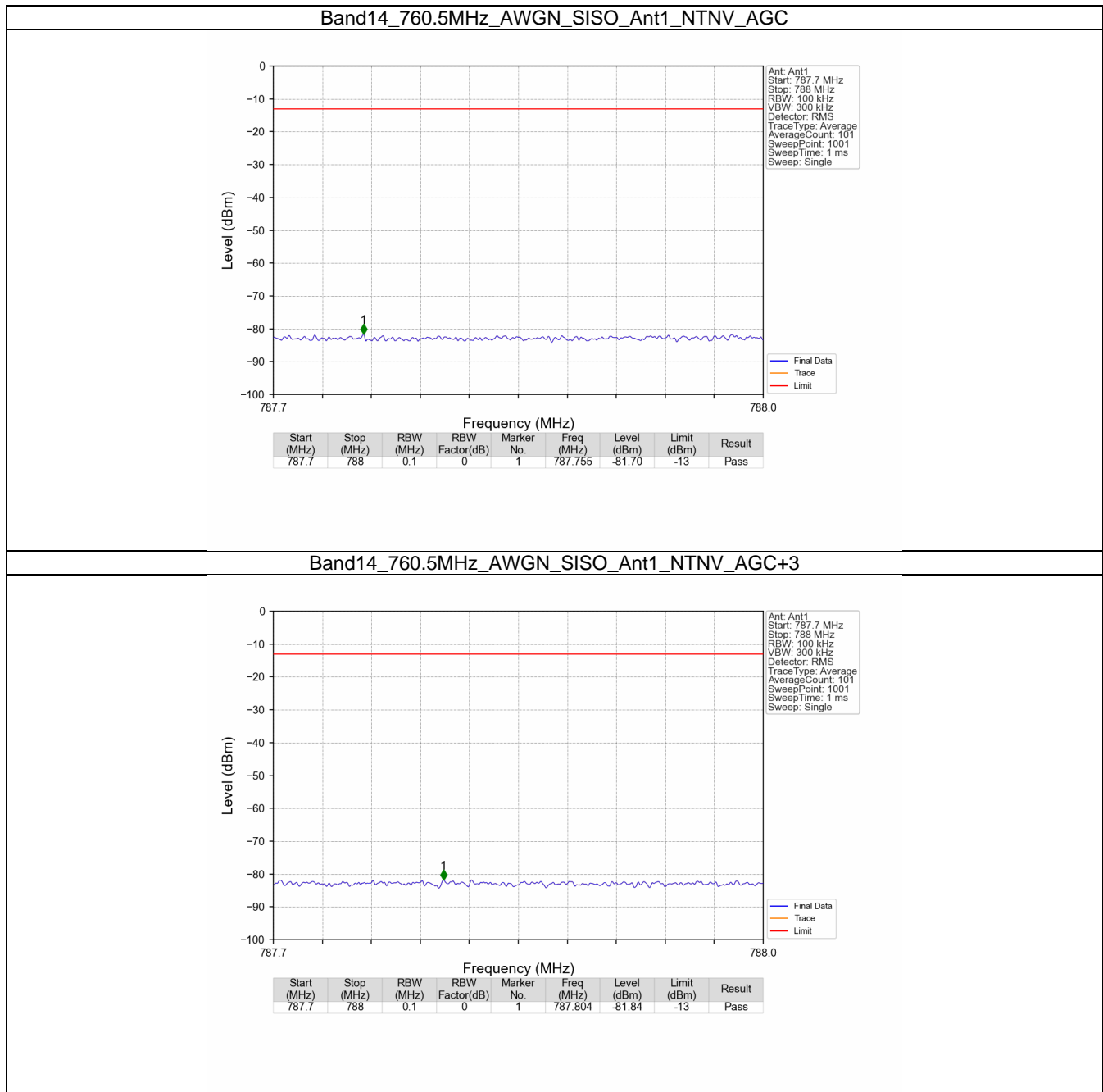
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## 5.1.2 Test Graph



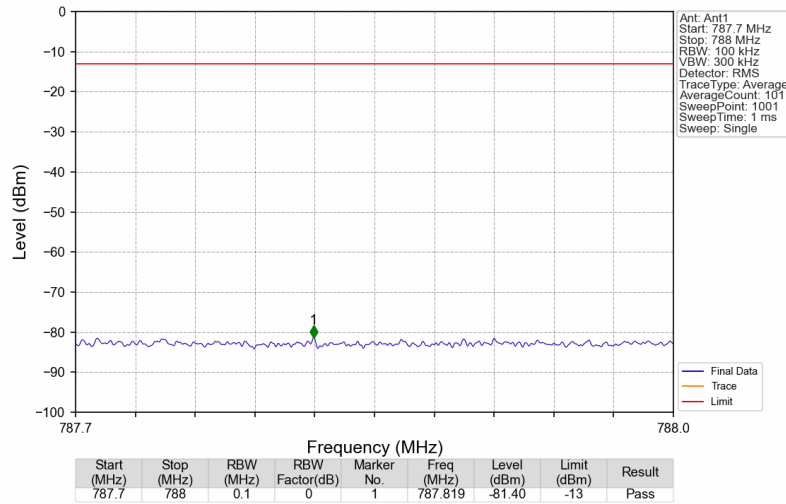
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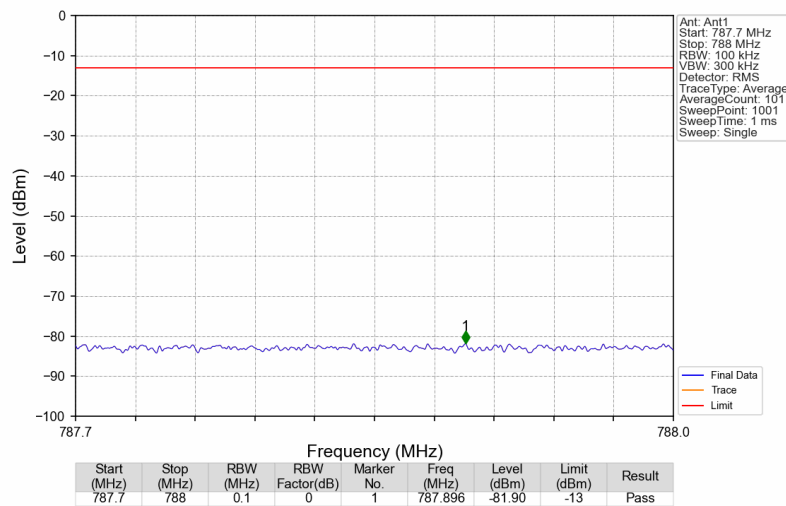
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### Band14\_760.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC



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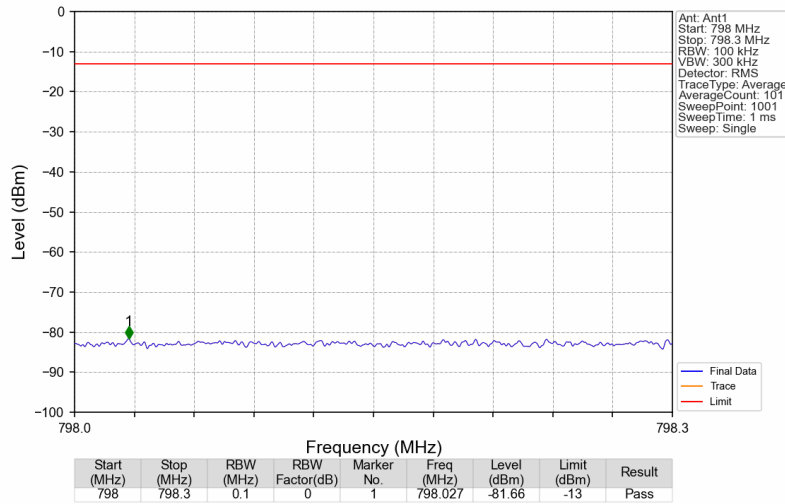
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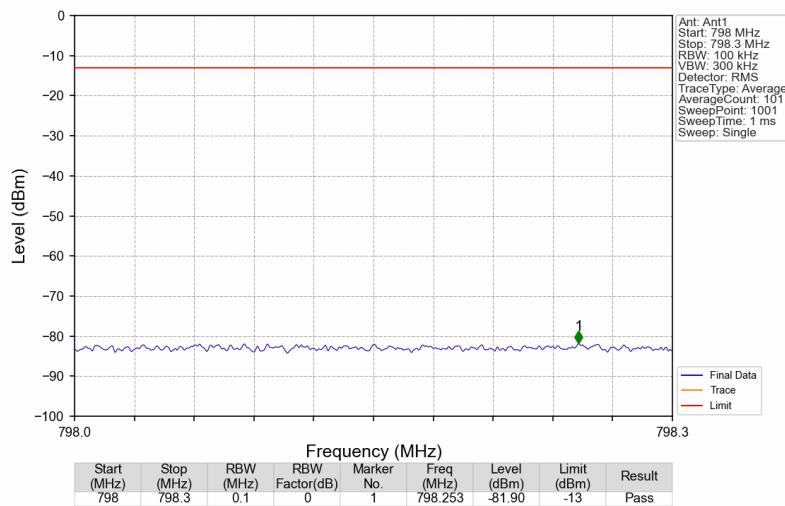
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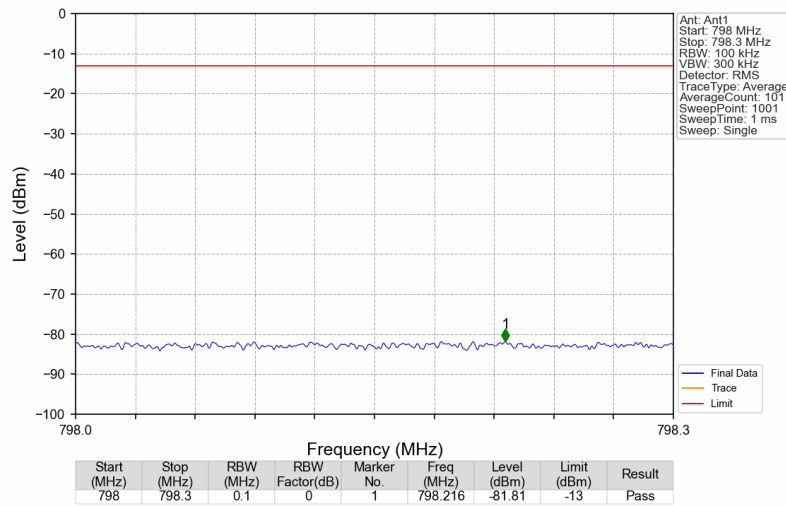
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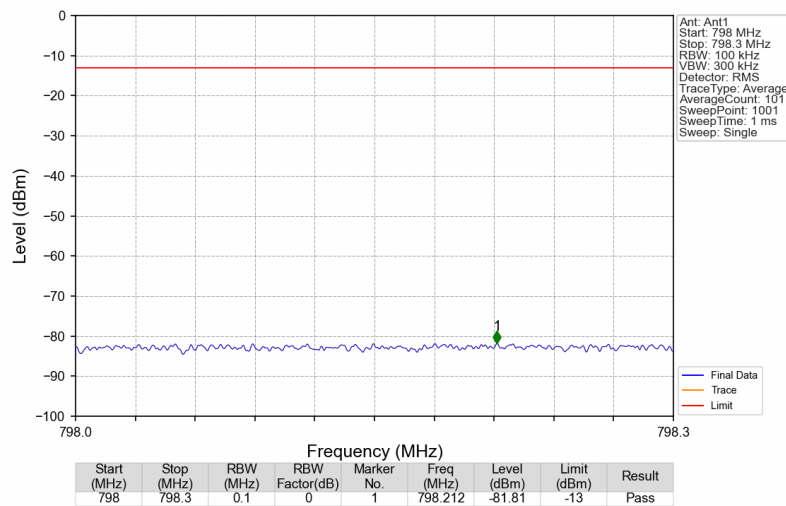
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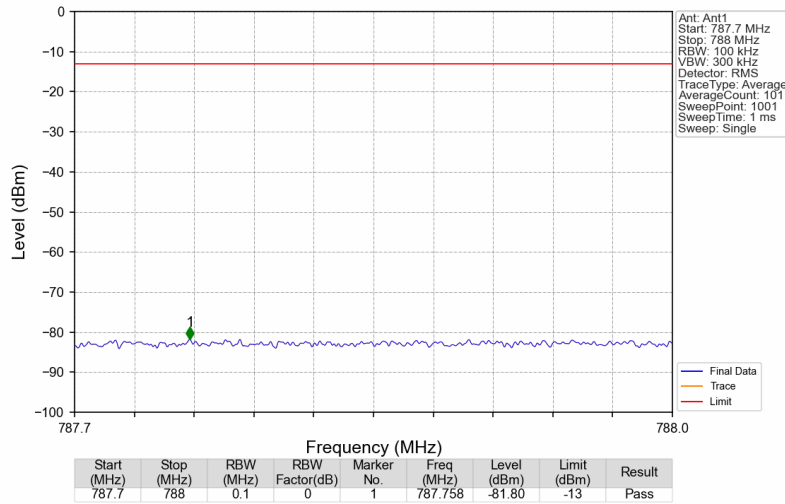
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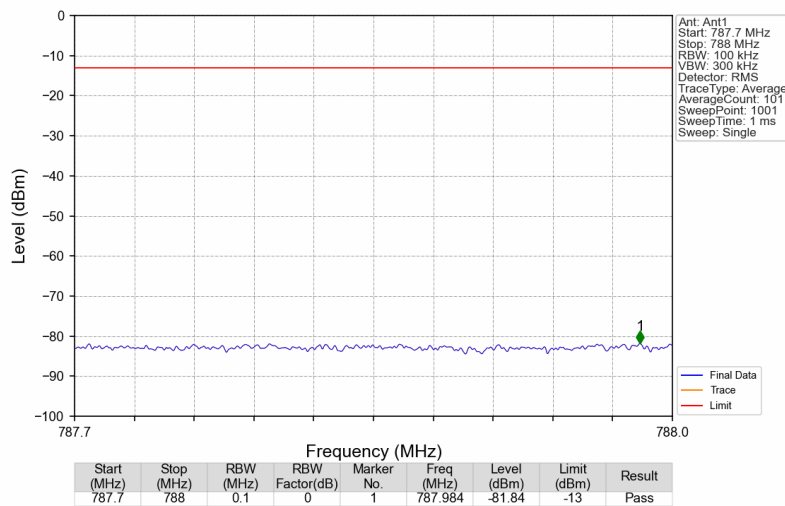
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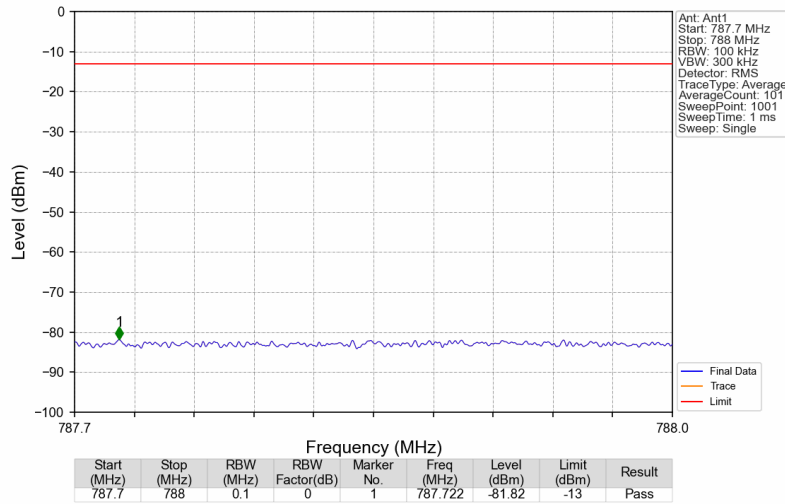
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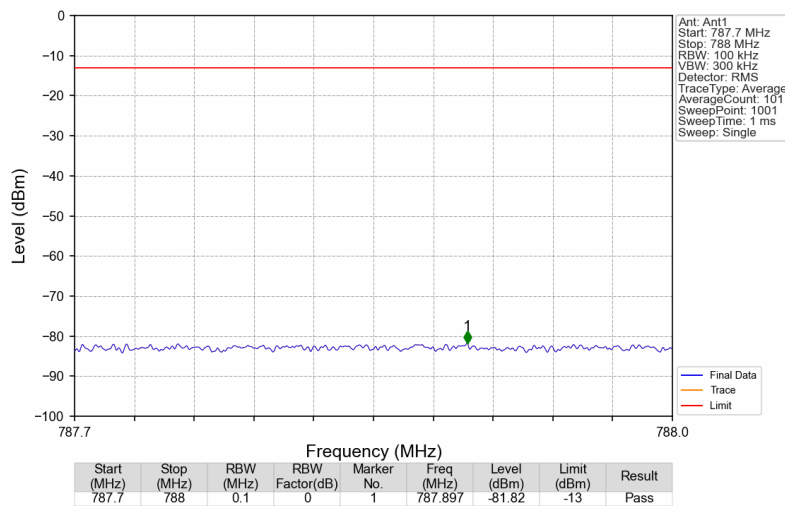
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### Band14\_758.1MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



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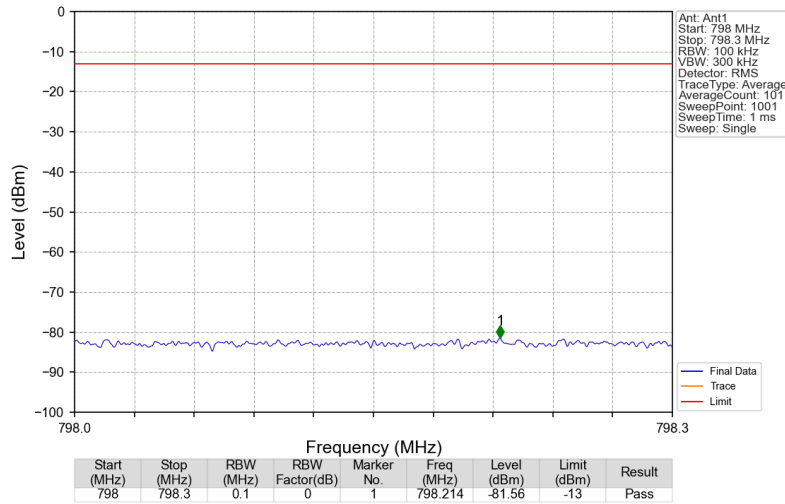
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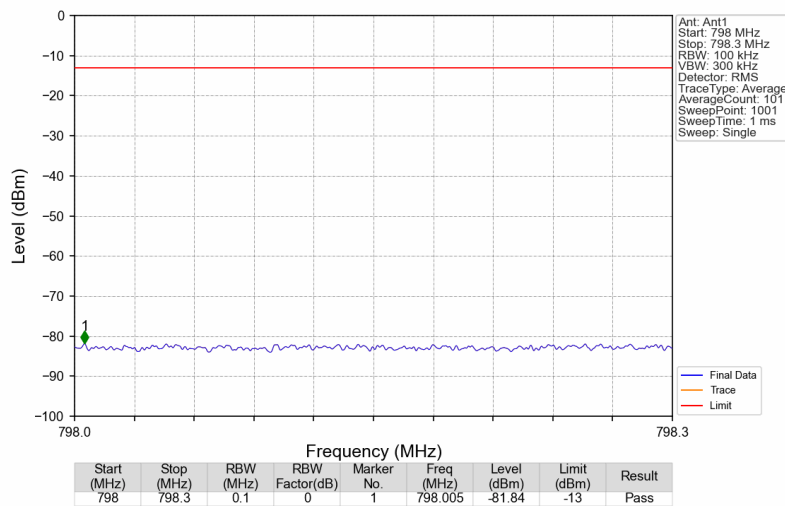
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### Band14\_767.9MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



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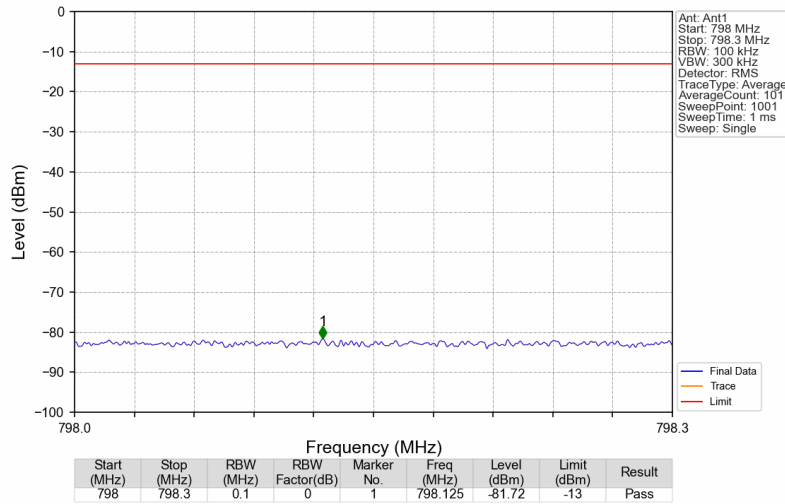
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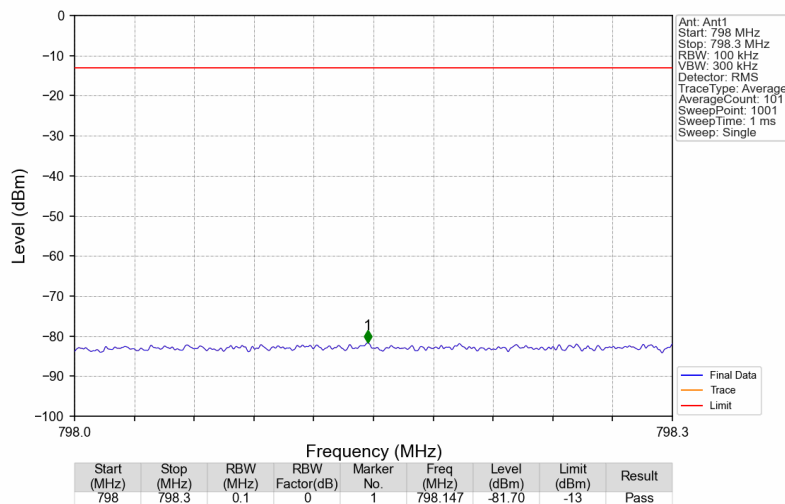
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## 6. Spurious emissions

### 6.1 Band14

#### 6.1.1 Test Result

Band: 14 / NTV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
AWGN	-2.2	760.5	LCH	SISO	1	Refer To Test Graph		Pass
		763	MCH	SISO	1	Refer To Test Graph		Pass
		765.5	HCH	SISO	1	Refer To Test Graph		Pass
GMSK	-1.2	758.1	LCH	SISO	1	Refer To Test Graph		Pass
		763	MCH	SISO	1	Refer To Test Graph		Pass
		767.9	HCH	SISO	1	Refer To Test Graph		Pass



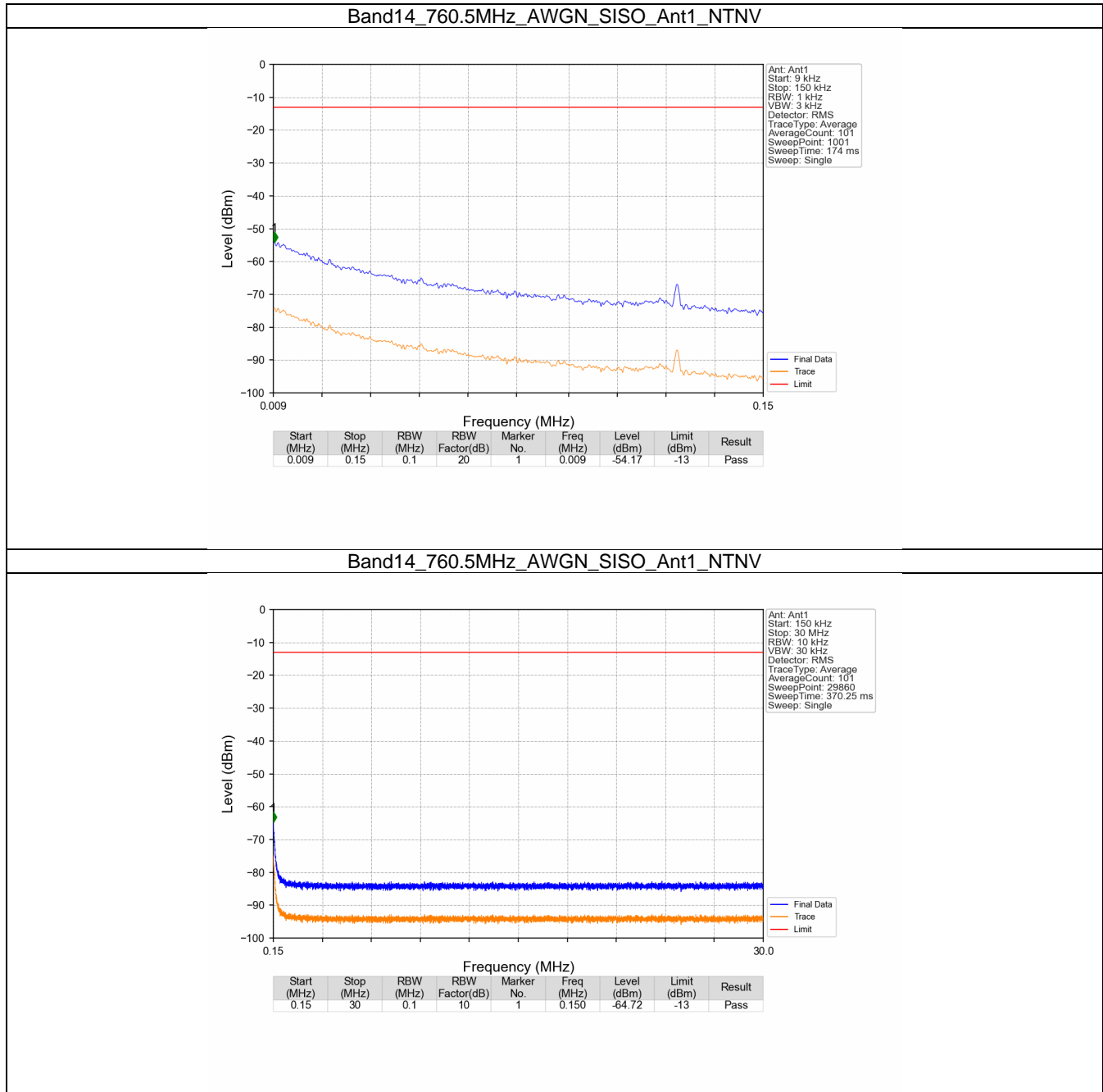
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6.1.2 Test Graph



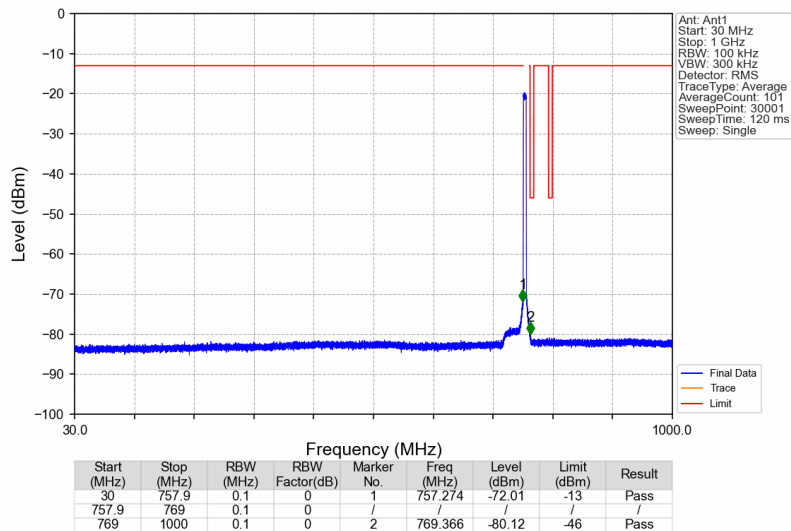
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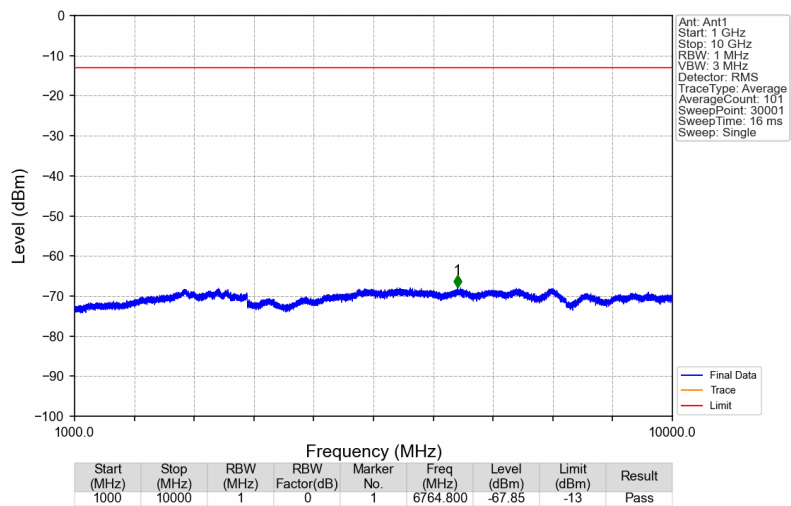
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Band14\_760.5MHz\_AWGN\_SISO\_Ant1\_NTNV



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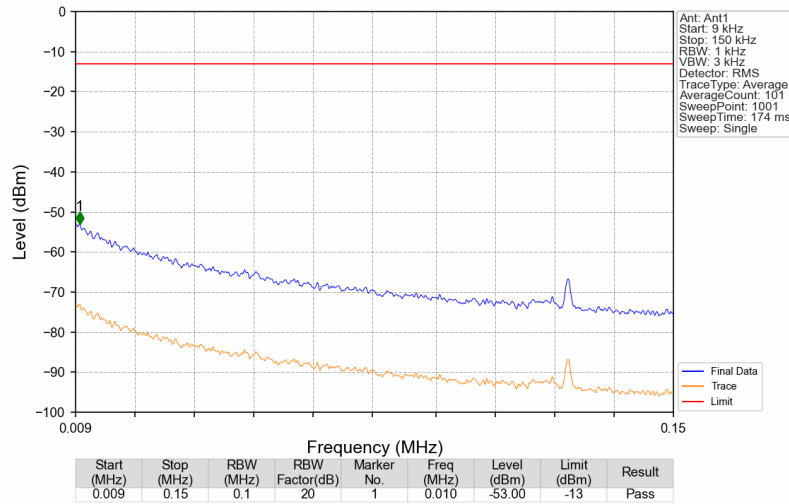
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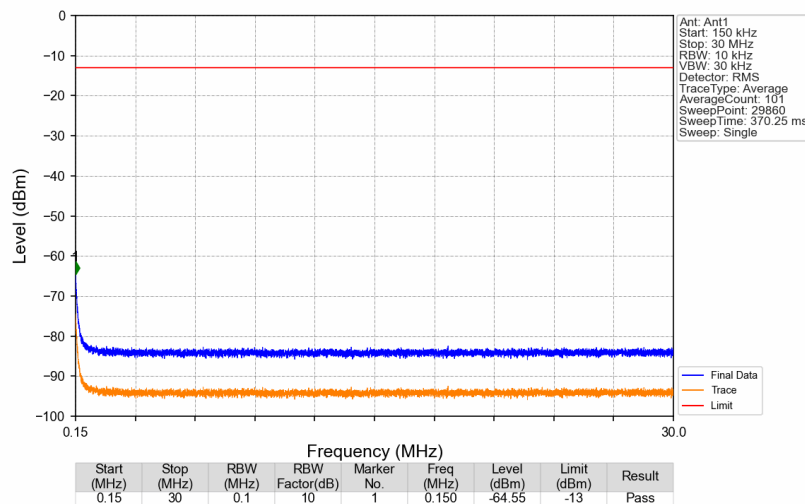


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### Band14\_763MHz\_AWGN\_SISO\_Ant1\_NTNV



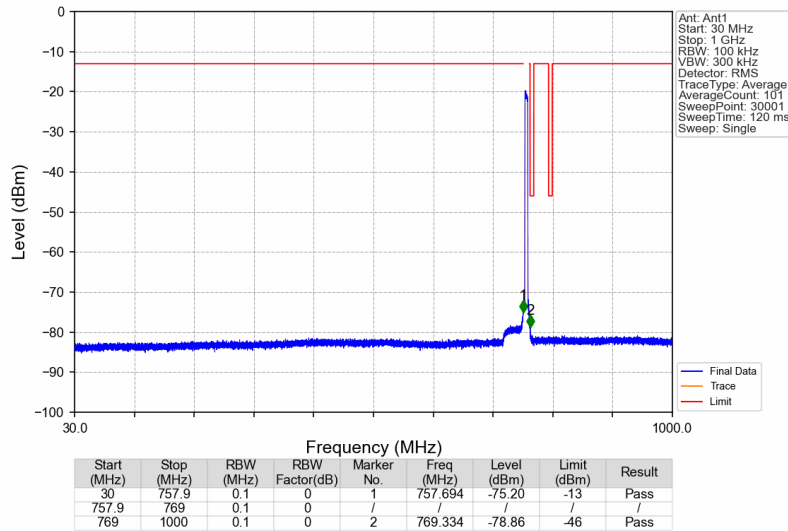
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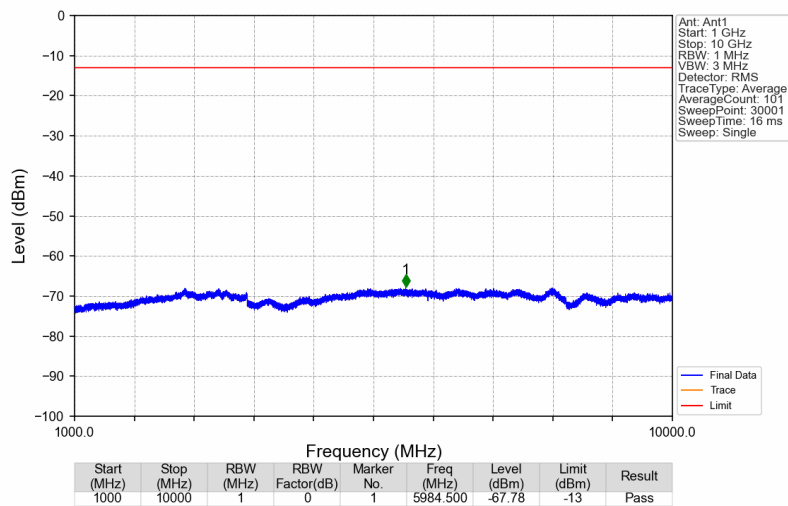
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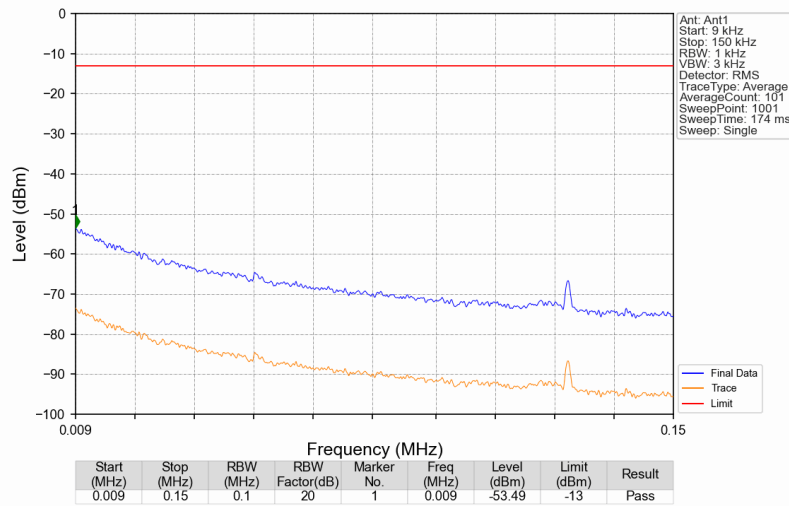
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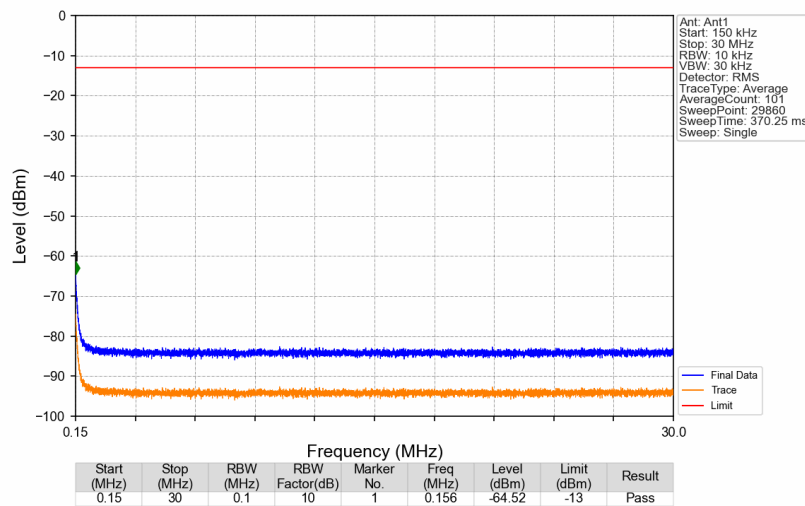
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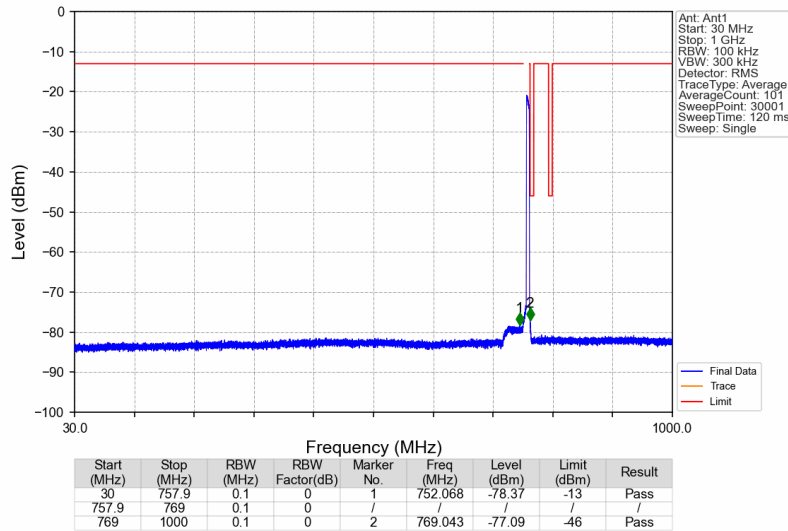
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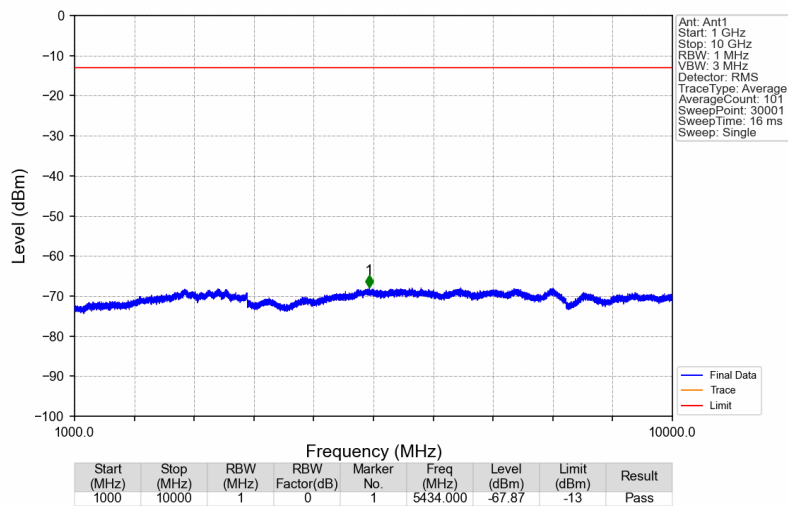
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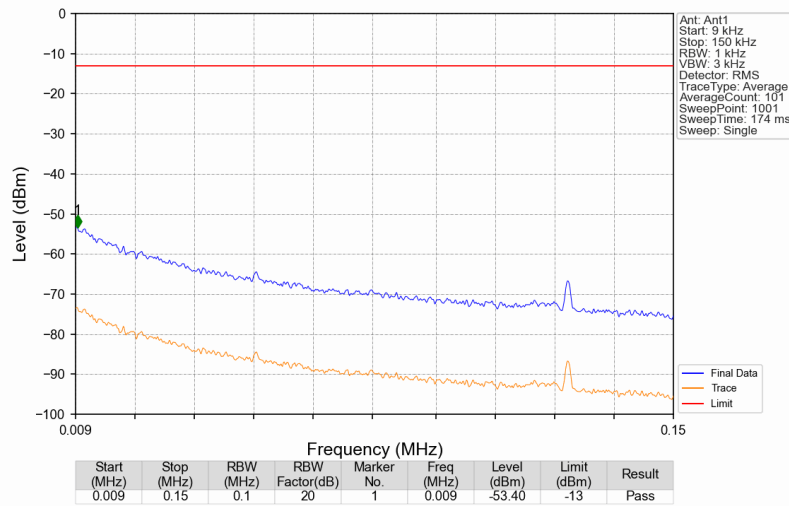
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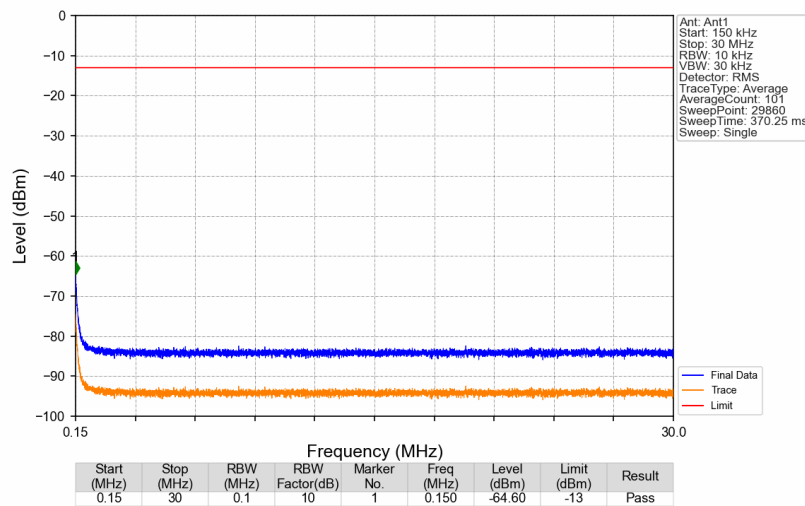
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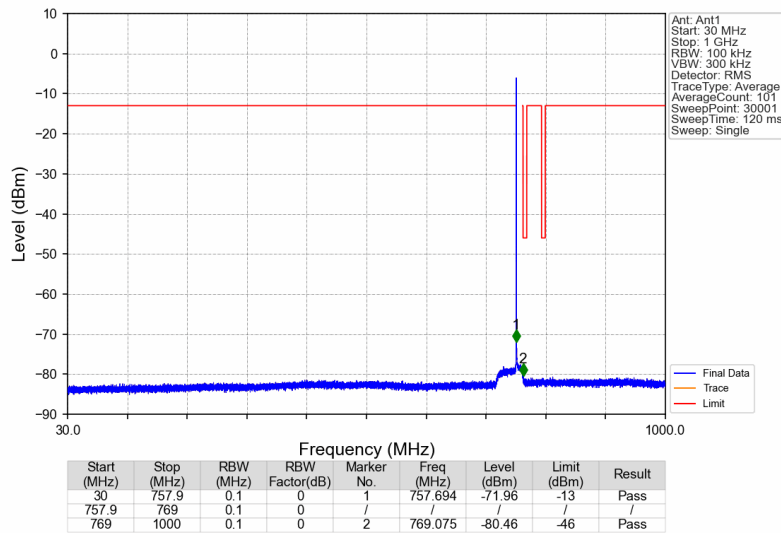
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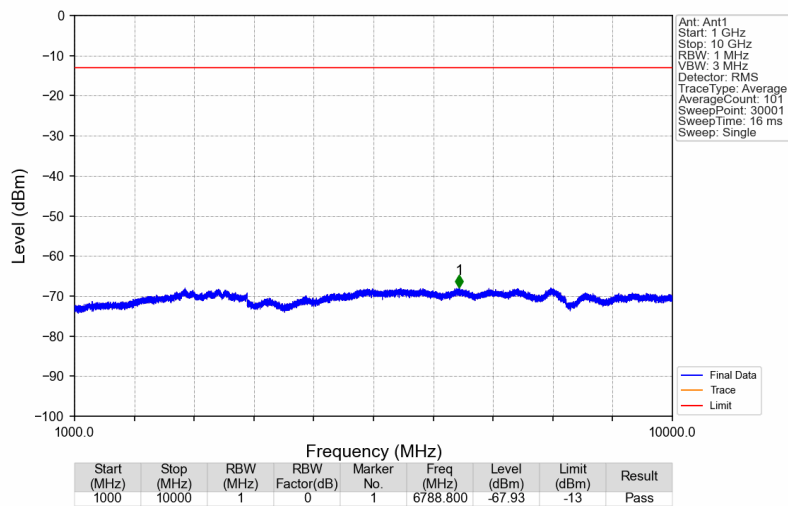
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### Band14\_758.1MHz\_GMSK\_SISO\_Ant1\_NTNV



### Band14\_758.1MHz\_GMSK\_SISO\_Ant1\_NTNV



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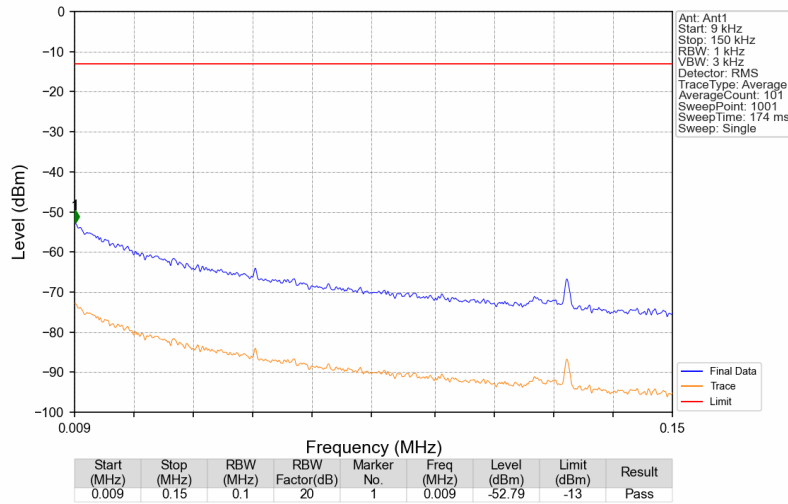
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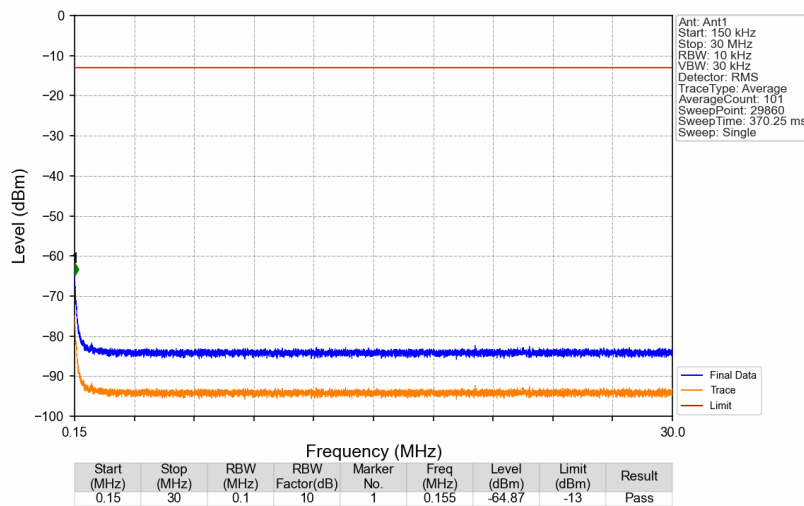
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Band14\_763MHz\_GMSK\_SISO\_Ant1\_NTNV



Band14\_763MHz\_GMSK\_SISO\_Ant1\_NTNV



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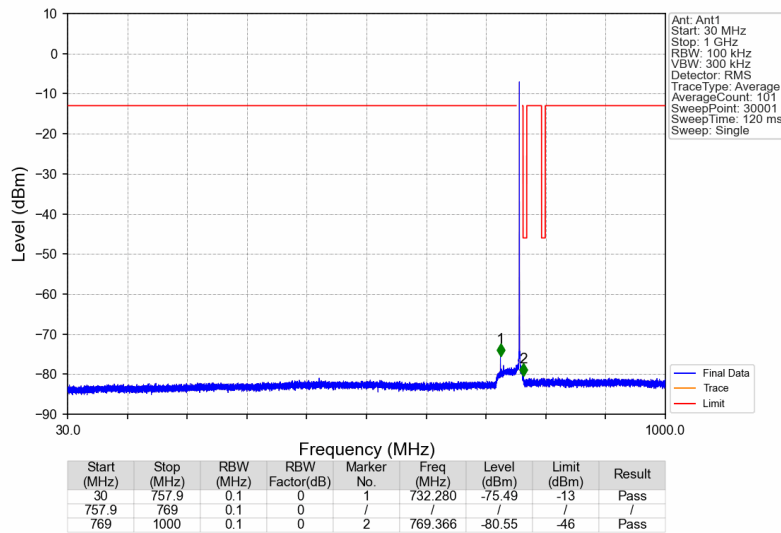
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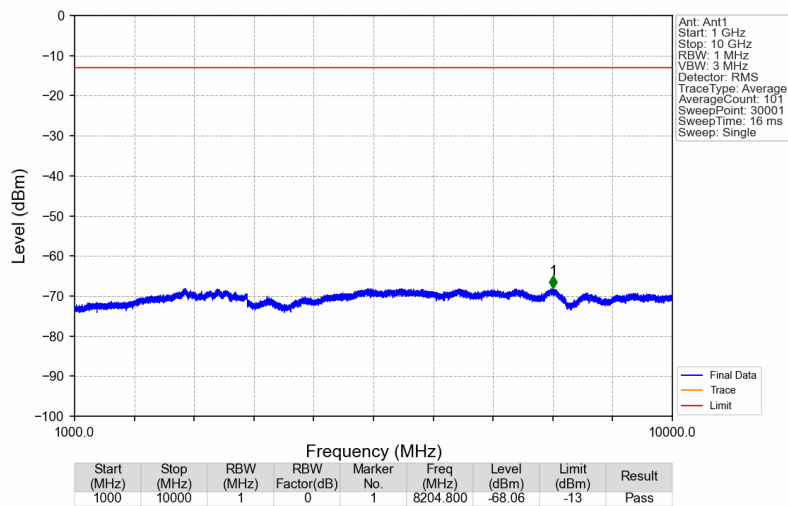
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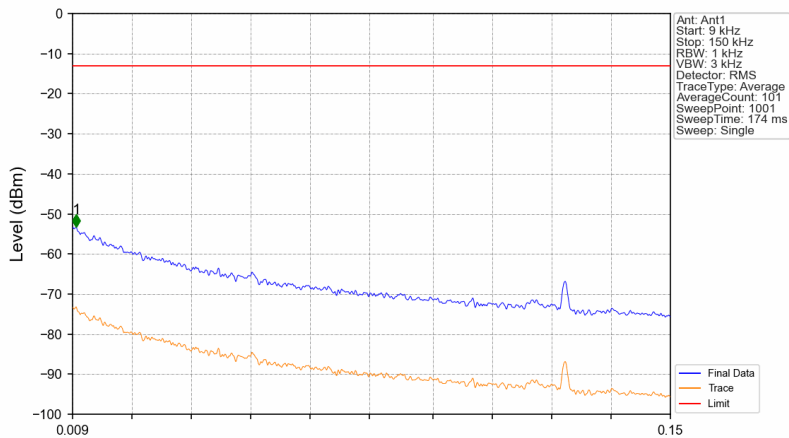
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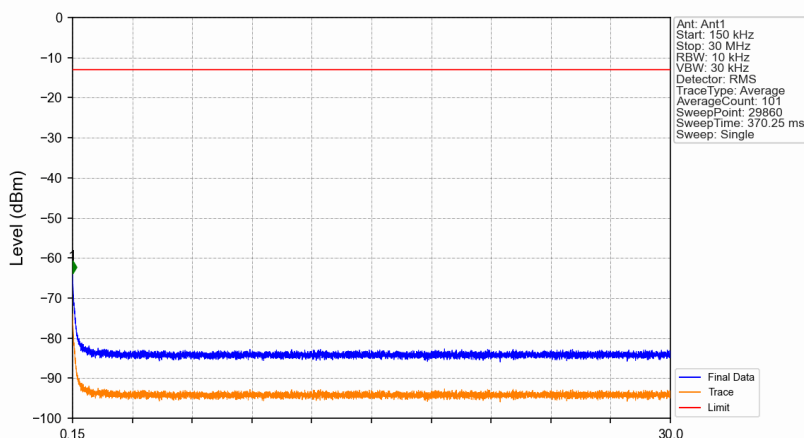


### Band14\_767.9MHz\_GMSK\_SISO\_Ant1\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	0.1	20	1	0.010	-53.22	-13	Pass

### Band14\_767.9MHz\_GMSK\_SISO\_Ant1\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.15	30	0.1	10	1	0.151	-63.91	-13	Pass



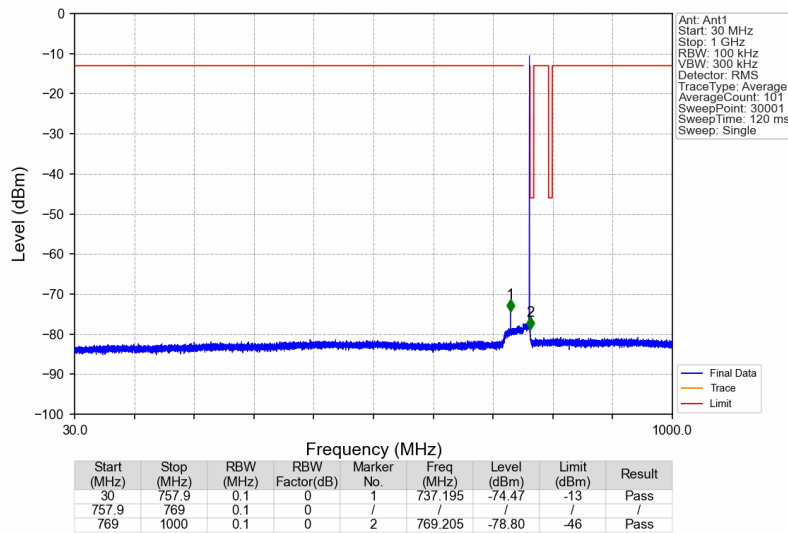
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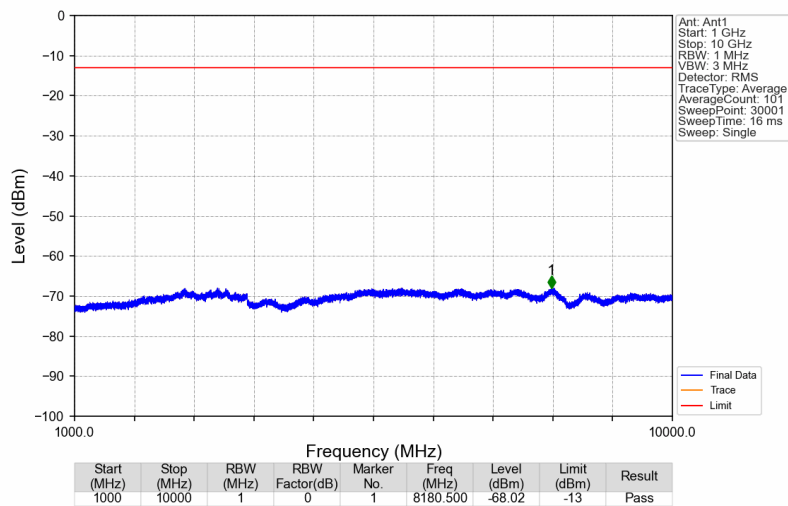
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### Band14\_767.9MHz\_GMSK\_SISO\_Ant1\_NTNV



### Band14\_767.9MHz\_GMSK\_SISO\_Ant1\_NTNV



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7. Frequency stability measurements

7.1 Band14\_Ant1

7.1.1 Test Result

			Band: 14 / NTVN					
Signal			Temp (°C)	Voltage (VAC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict	
Type	Level (dBm)	Frequency (MHz)						
CW	-2.2	758.1	20	102	758.10	0.00	Pass	
				120	758.10	0.00	Pass	
				138	758.10	0.00	Pass	
			-30	120	758.10	0.00	Pass	
				-20	120	758.10	0.00	Pass
					120	758.10	0.00	Pass
			-10	120	758.10	0.00	Pass	
				0	120	758.10	0.00	Pass
			10	120	758.10	0.00	Pass	
				30	120	758.10	0.00	Pass
		40	120	758.10	0.00	Pass		
			50	120	758.10	0.00	Pass	
		763	20	102	763.00	0.00	Pass	
				120	763.00	0.00	Pass	
				138	763.00	0.00	Pass	
			-30	120	763.00	0.00	Pass	
				-20	120	763.00	0.00	Pass
					120	763.00	0.00	Pass
			-10	120	763.00	0.00	Pass	
				0	120	763.00	0.00	Pass
			10	120	763.00	0.00	Pass	
				30	120	763.00	0.00	Pass
		40	120	763.00	0.00	Pass		
			50	120	763.00	0.00	Pass	
		767.9	20	102	767.90	0.00	Pass	
				120	767.90	0.00	Pass	
				138	767.90	0.00	Pass	
			-30	120	767.90	0.00	Pass	
				-20	120	767.90	0.00	Pass
					120	767.90	0.00	Pass
-10	120		767.90	0.00	Pass			
	0		120	767.90	0.00	Pass		
10	120		767.90	0.00	Pass			
	30		120	767.90	0.00	Pass		
40	120	767.90	0.00	Pass				
	50	120	767.90	0.00	Pass			



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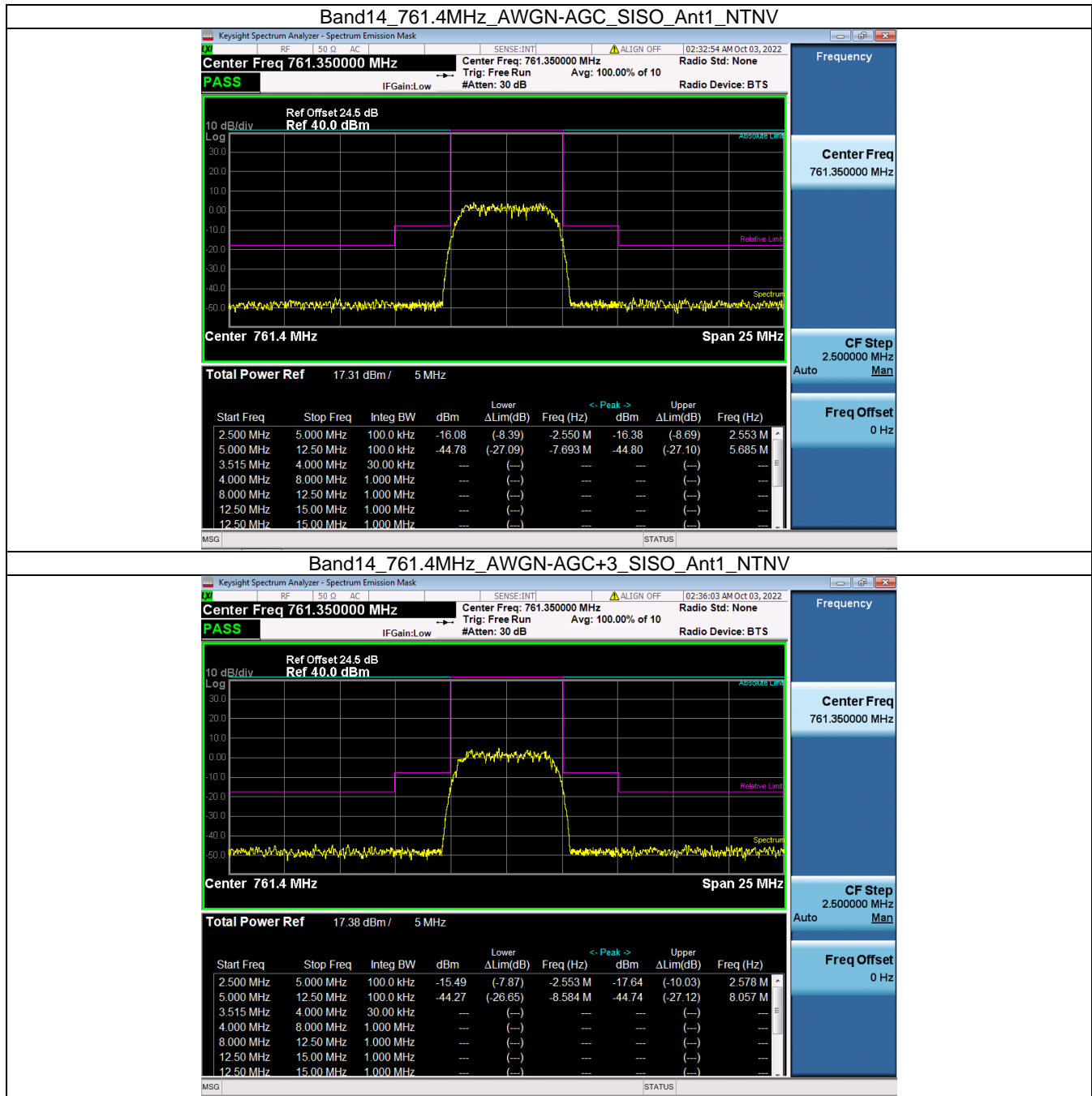
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### 8. Emission Mask

#### 8.1 Band14\_Ant1

##### 8.1.1 Test Result

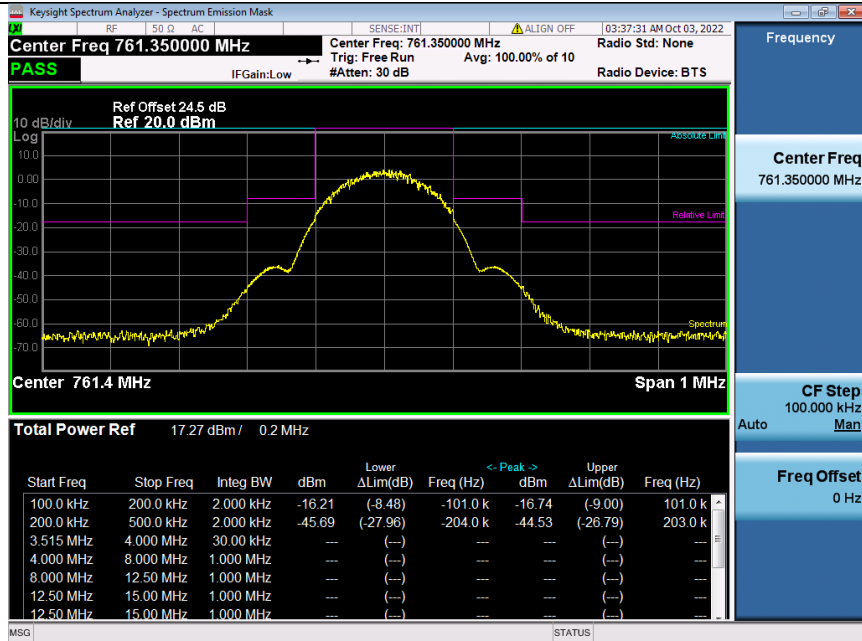


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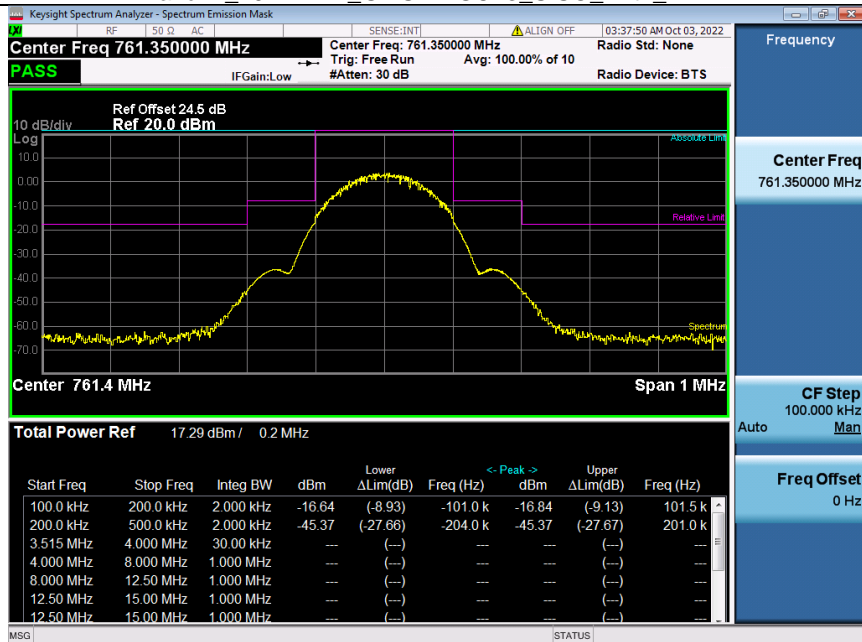
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## Band14\_761.4MHz\_GMSK-AGC\_SISO\_Ant1\_NTNV



## Band14\_761.4MHz\_GMSK-AGC+3\_SISO\_Ant1\_NTNV



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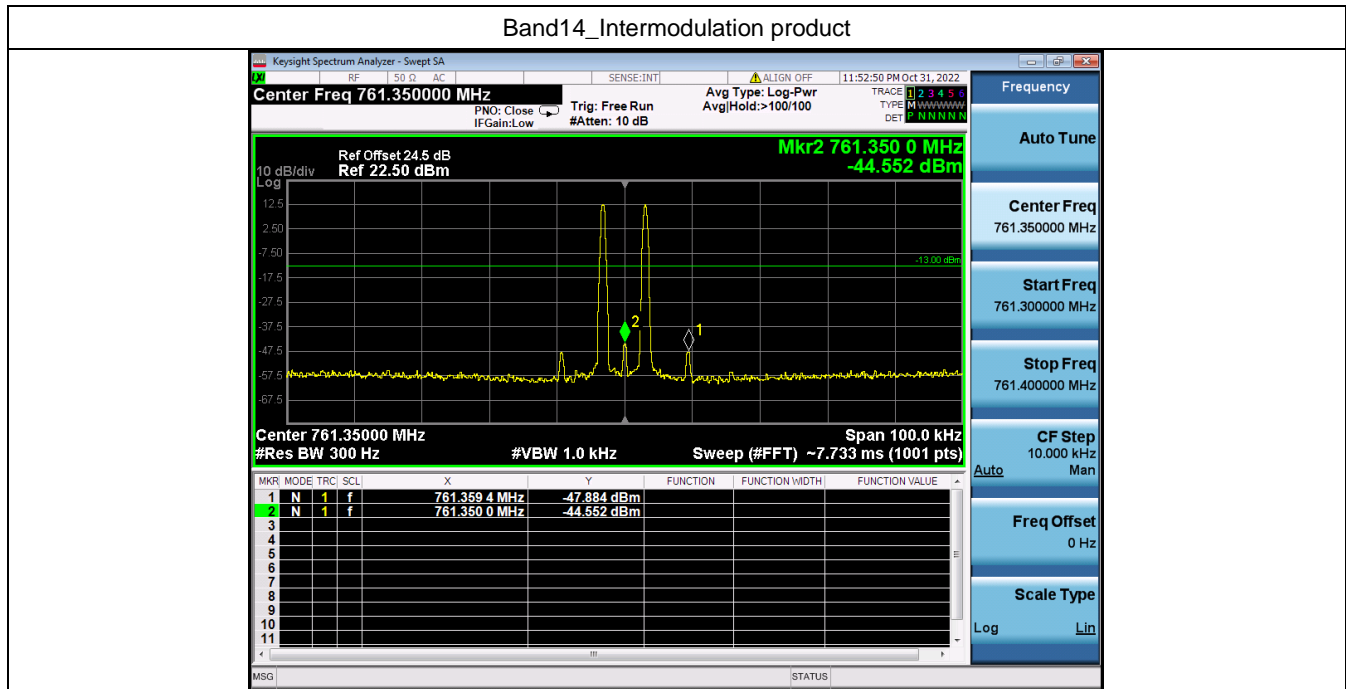
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9.Noise/emission at Antenna Terminal

9.1 Band14\_Ant1

9.1.1 Test Result

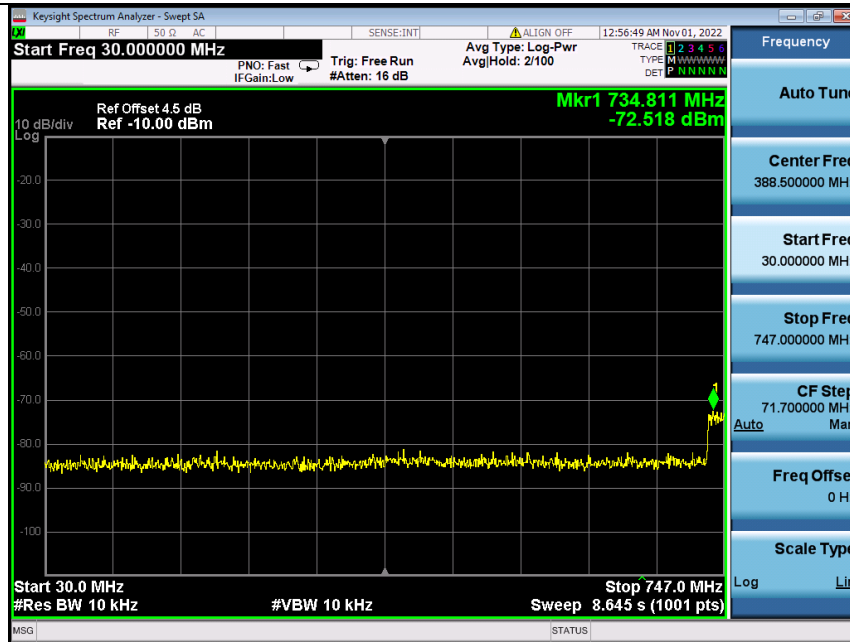


Remark:  
 The antenna gain of this device in band 14 is 2.61dBi.  
 $ERP = EIRP - 2.15dB$   
 The conducted max intermodulation product is  $-47.884dBm/300Hz = -32.655dBm/10kHz$ , ERP of intermodulation product is  $-32.655dBm/10kHz + 2.61dBi - 2.15dB = -32.195dBm/10kHz$   
 Applicant must use good engineering practice to make sure that the ERP of intermodulation products should not exceed the level -30dBm in 10kHz measurement bandwidth.

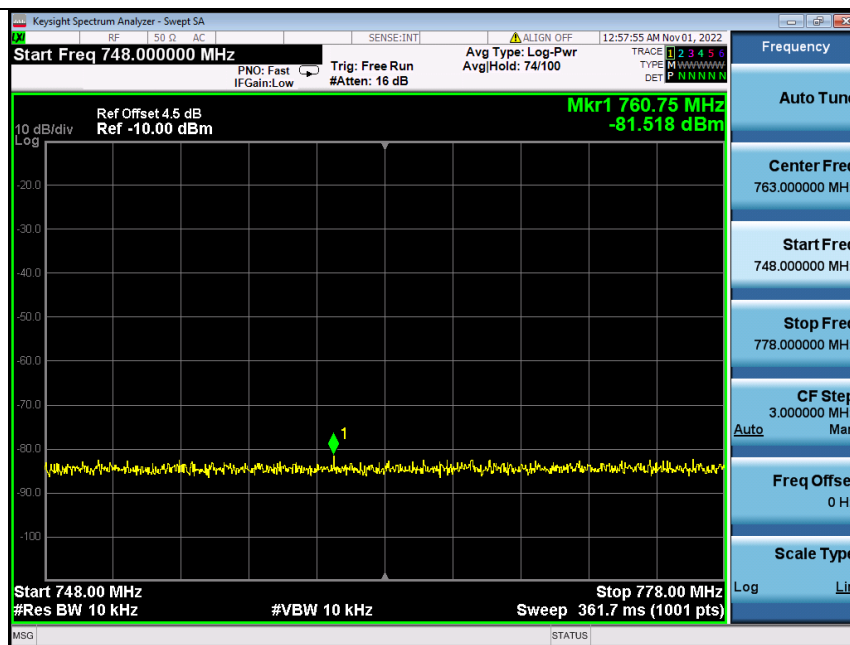


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Band14\_ Noise outside of the passband



Band14\_ Noise outside of the passband



Remark:

The antenna gain of this device in band 14 is 2.61dBi.

ERP = EIRP - 2.15dB

The conducted max. noise on spectrum more than 1MHz outside of the passband is -57.831dBm/10Hz, ERP of noise on spectrum more than 1MHz outside of the passband is -72.518dBm/10kHz + 2.61dBi -2.15dB = -72.058dBm/10kHz.

Applicant must use good engineering practice to make sure that the ERP of noise on spectrum more than 1MHz outside of the passband should not exceed the level -70dBm in 10kHz measurement bandwidth.



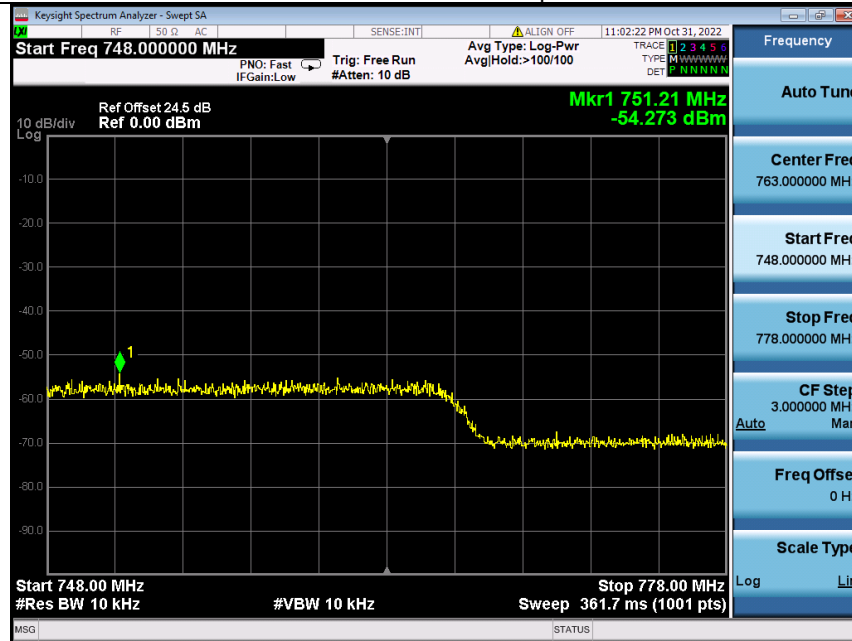
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Band14\_ Noise within of the passband



Remark:

The antenna gain of this device in band 14 is 2.61dBi.

ERP = EIRP - 2.15dB

The conducted max. noise on spectrum within the passband is -54.273dBm/10kHz, ERP of noise on spectrum within the passband is -54.273dBm/10kHz + 2.61dBi -2.15dB = -53.813 dBm/10kHz.

Applicant must use good engineering practice to make sure that the ERP of noise within of the passband should not exceed the level -43dBm in 10kHz measurement bandwidth



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