

Appendix E for KSCR2208001464AT

1. Out of band rejection

1.1 Band41

1.1.1 Test Result

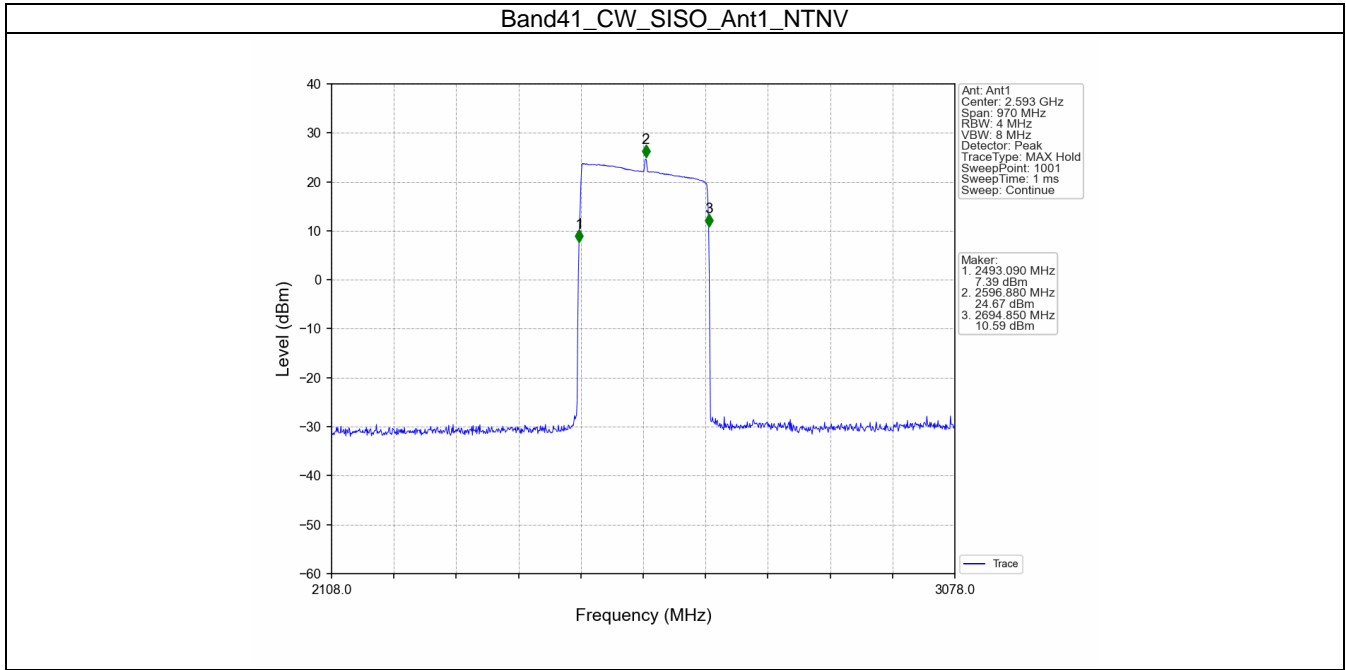
Band: 41 / NTNV							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	2108 - 3078	SISO	1	2596.880	2493.090	2694.850	Pass



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1.1.2 Test Graph



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## 2. AGC threshold

### 2.1 Band41

#### 2.1.1 Test Result

Band: 41 / NTNV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
AWGN	2596.88	SISO	1	-2.00	Pass
GMSK	2596.88	SISO	1	-2.00	Pass



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

#### 3.1 Band41\_OBW

##### 3.1.1 Test Result

Band: 41 / NTVN							
Type	Signal		TX Type	ANT	99% OBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	1	2596.88	SISO	1	4.508	4.541	Pass
	-2	2596.88	SISO	1	4.520	4.527	Pass
GMSK	1	2596.88	SISO	1	0.243	0.245	Pass
	-2	2596.88	SISO	1	0.245	0.244	Pass

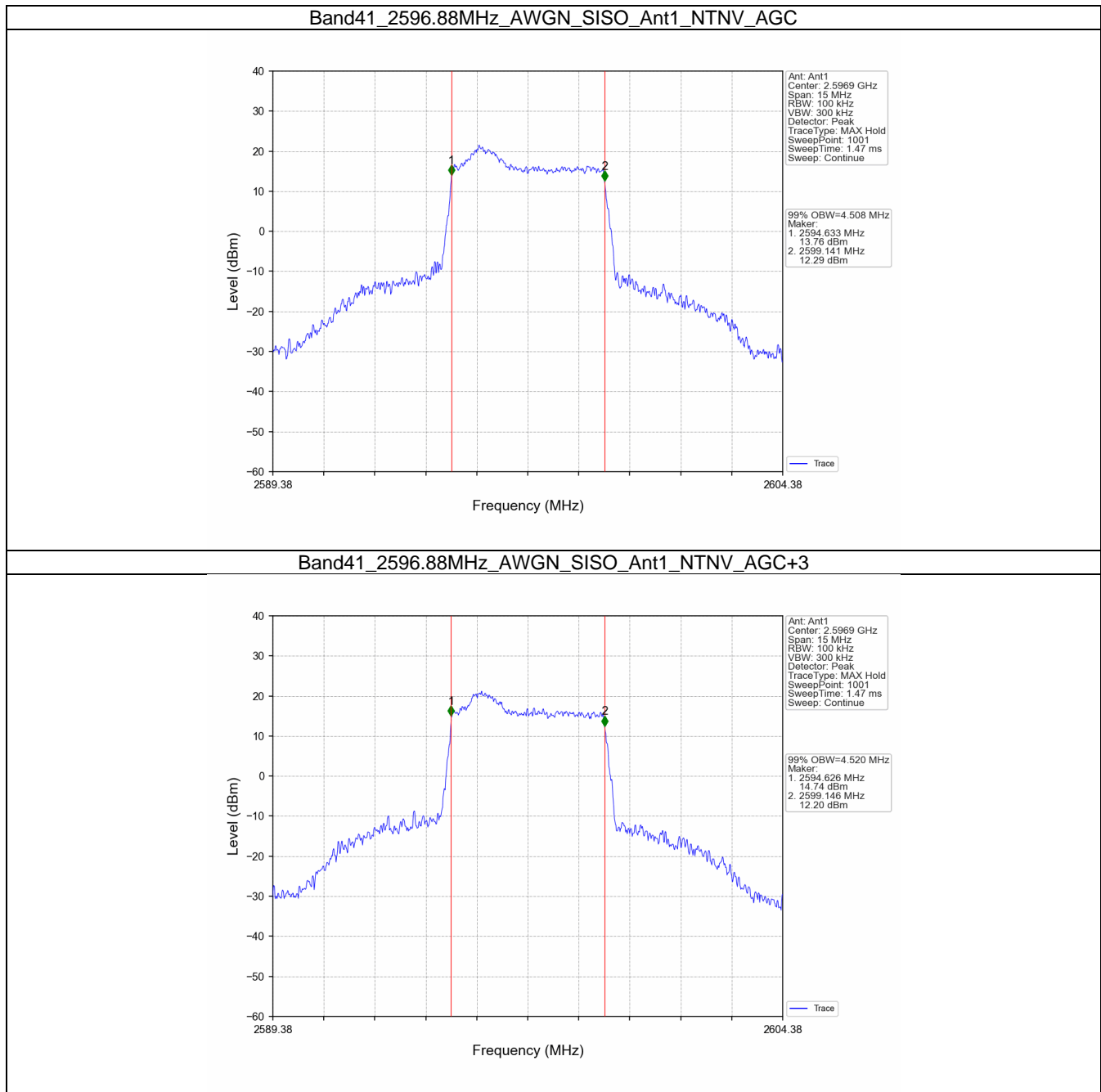


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3.1.2 Test Graph



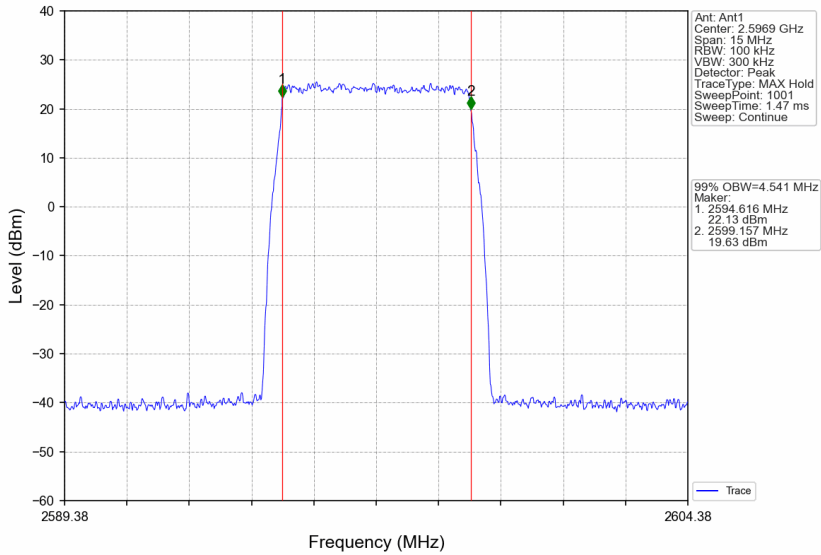
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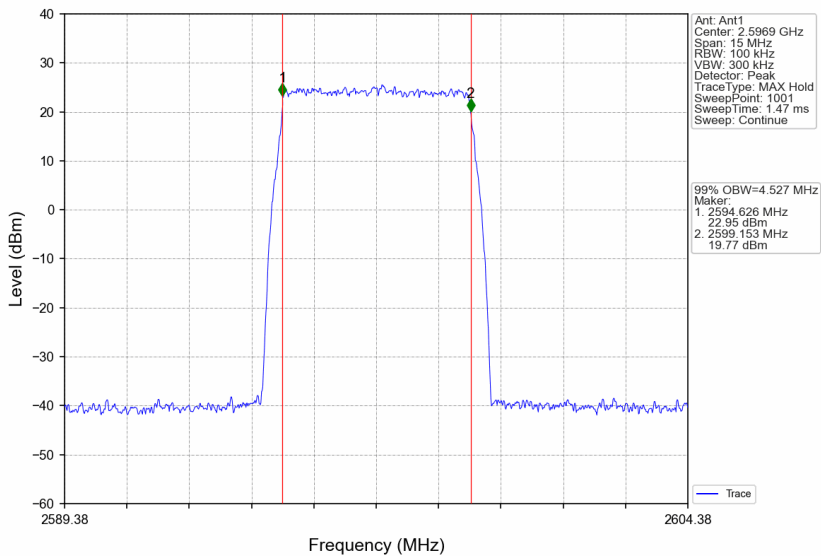
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Band41\_2596.88MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3



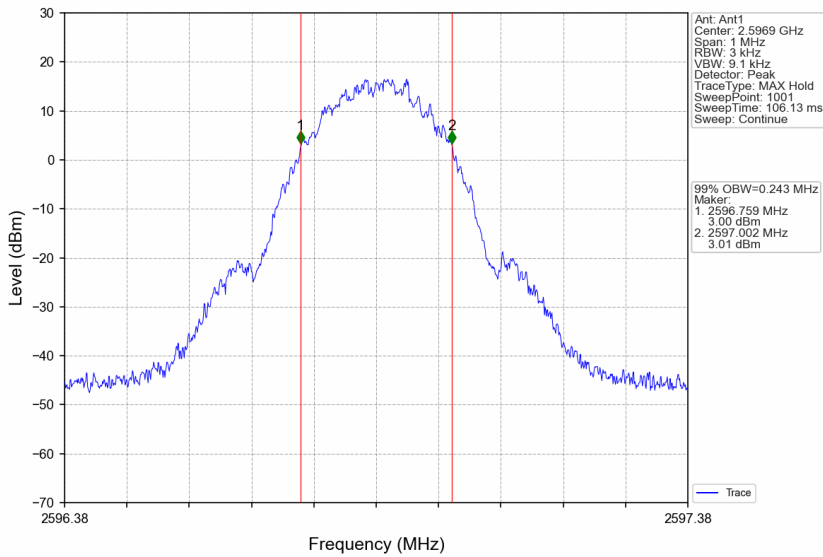
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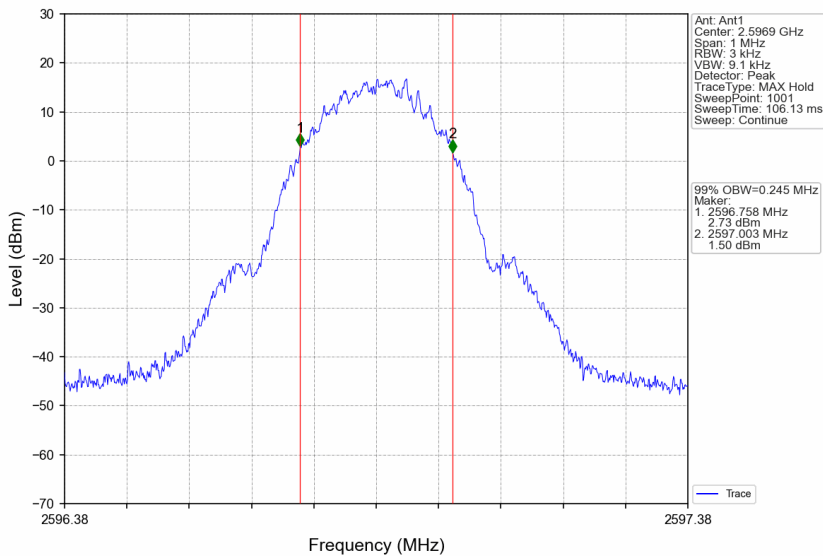
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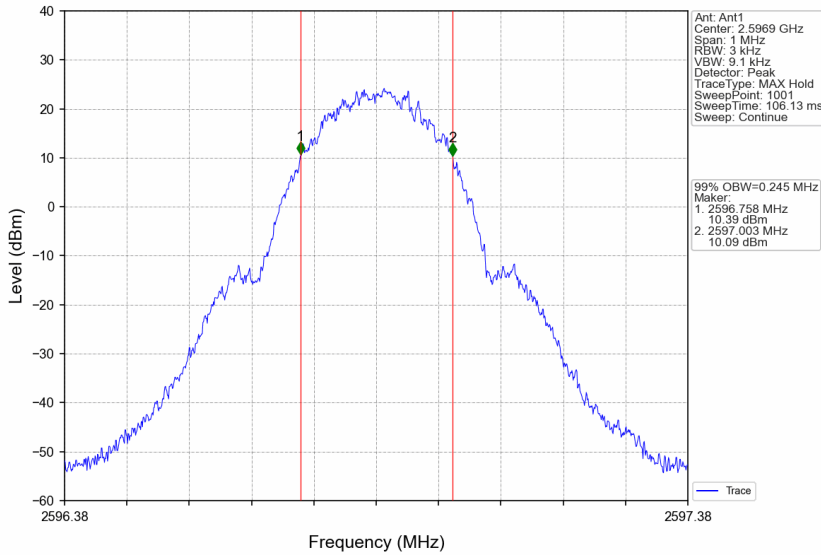
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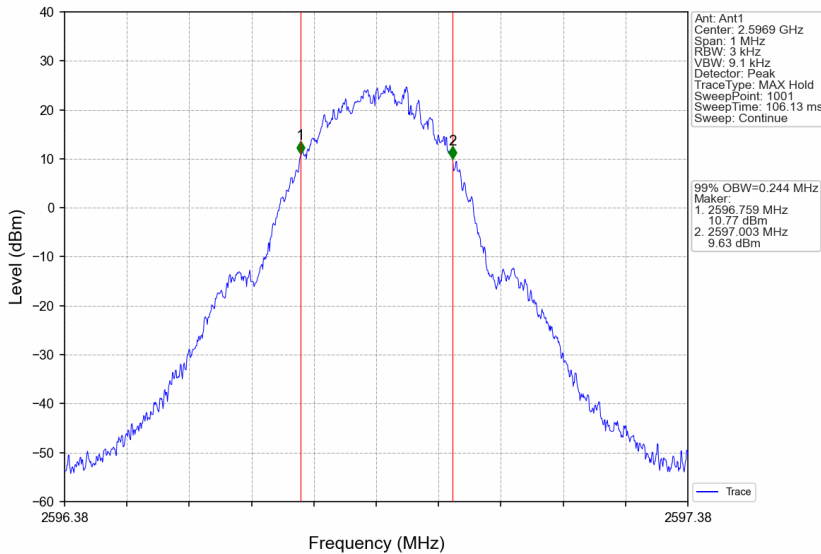
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3.2 Band41\_EBW

3.2.1 Test Result

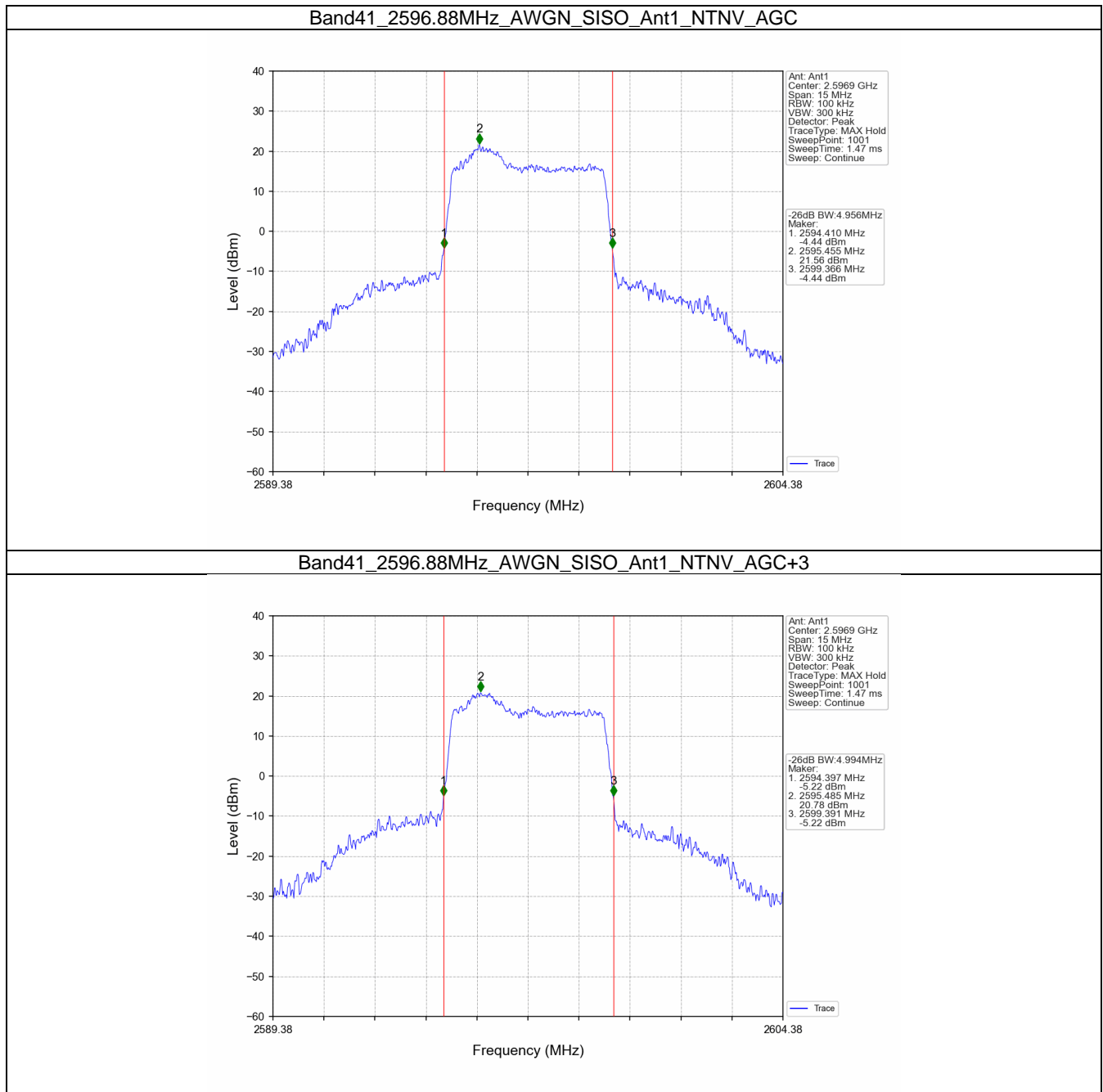
Band: 41 / NTNV							
Type	Signal		TX Type	ANT	26dB EBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	1	2596.88	SISO	1	4.956	5.073	Pass
	-2	2596.88	SISO	1	4.994	5.052	Pass
GMSK	1	2596.88	SISO	1	0.314	0.313	Pass
	-2	2596.88	SISO	1	0.313	0.315	Pass



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3.2.2 Test Graph



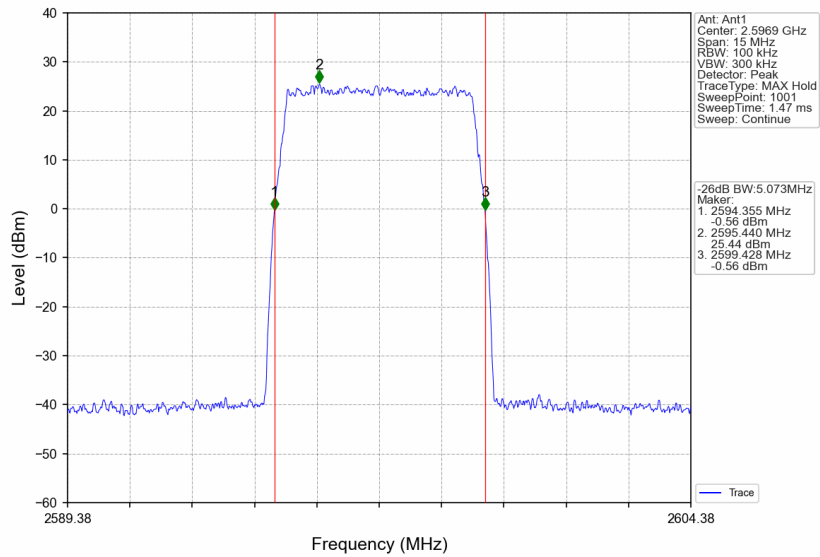
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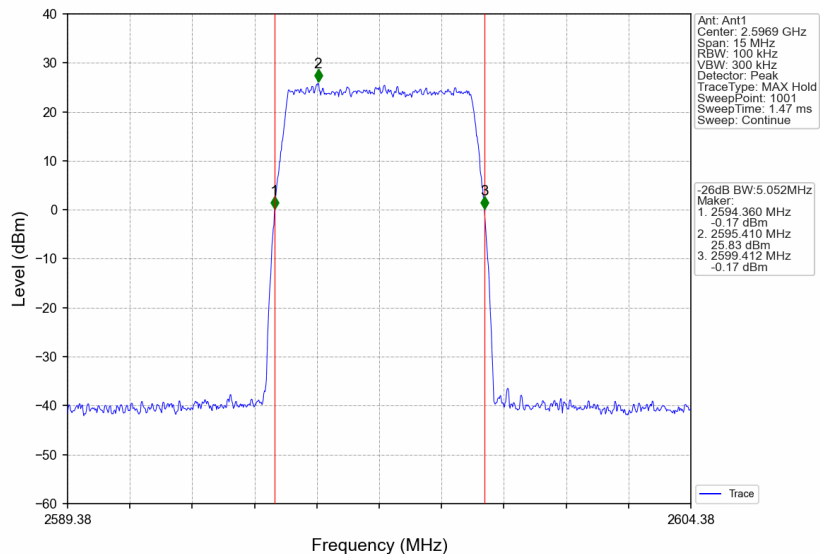
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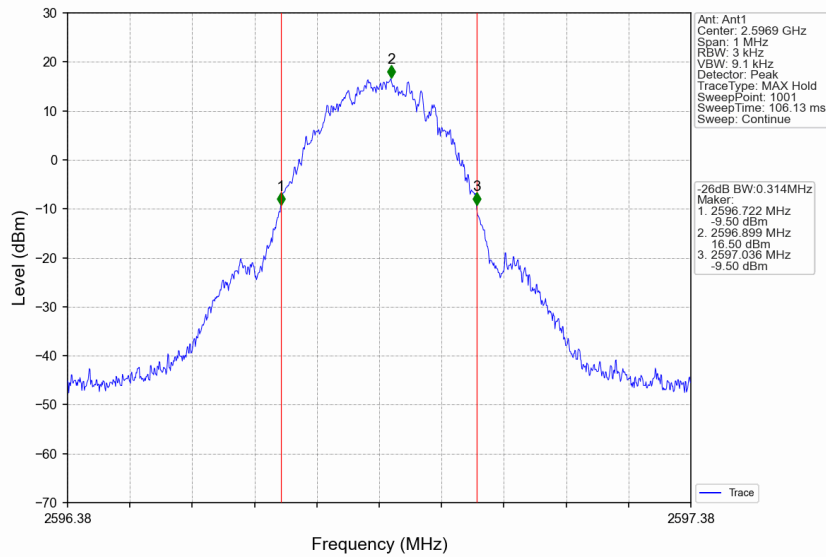


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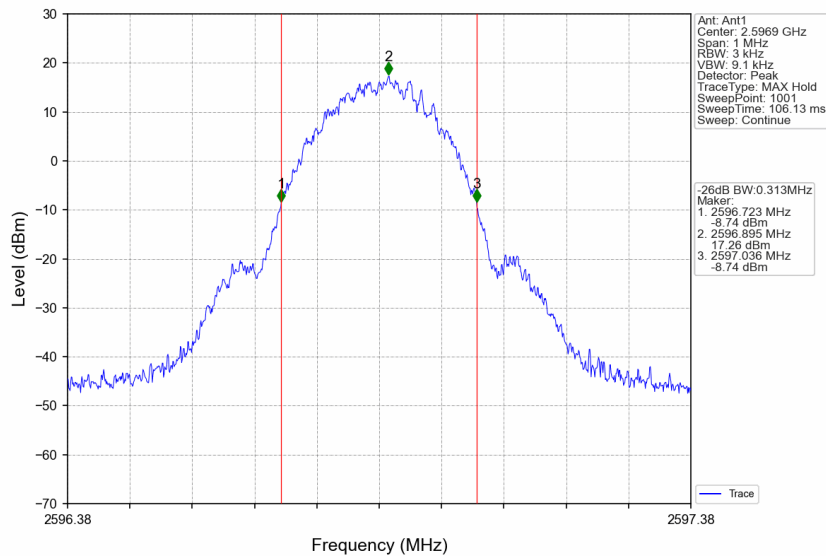
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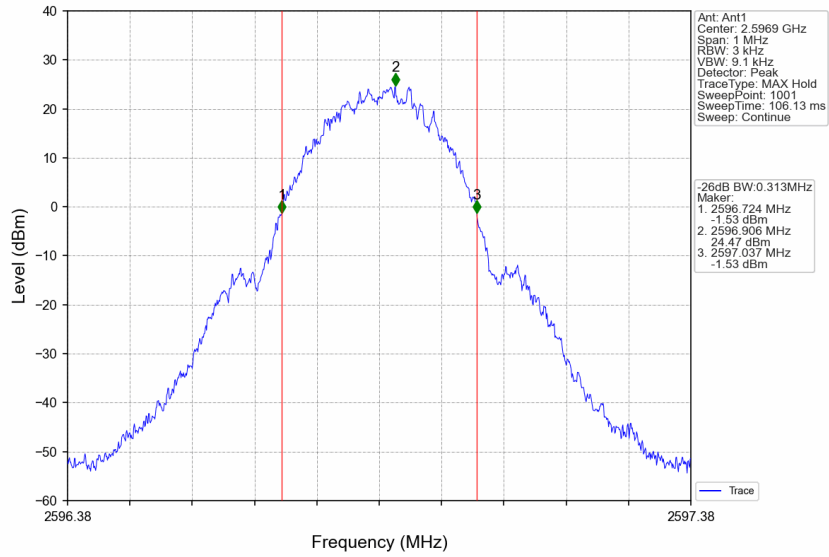
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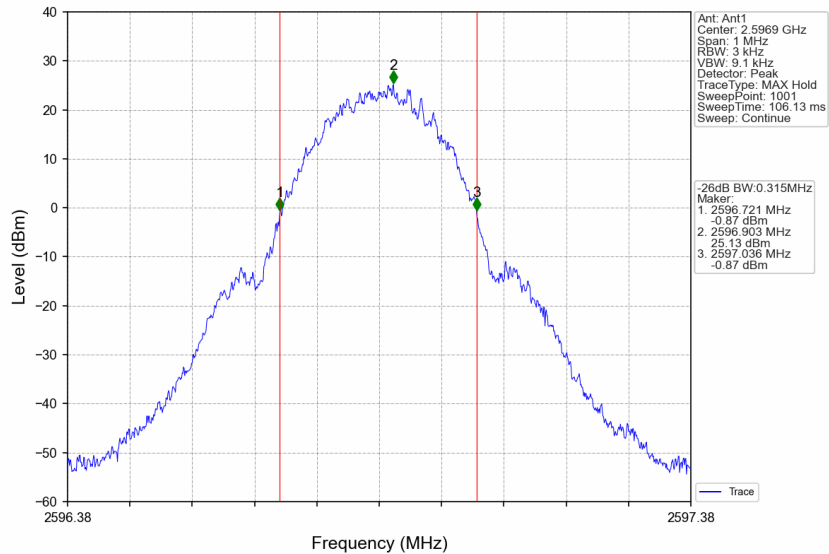
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#### 4. Input/output power and amplifier/booster gain

##### 4.1 Band41\_EIRP

##### 4.1.1 Test Result

Band: 41 / NTN										
Signal			TX Type	ANT	Conducted Power (dBm)		EIRP (dBm)		Booster Gain (dB)	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	Result	Limit		
AWGN	-2	2596.88	SISO	1	24.64	-2.02	30.28	<=92.17	26.66	Pass
	1	2596.88	SISO	1	24.53	0.99	30.17	<=92.17	/	Pass
GMSK	-2	2596.88	SISO	1	23.95	-1.78	29.59	<=80.19	25.73	Pass
	1	2596.88	SISO	1	24.50	1.19	30.14	<=80.19	/	Pass

2496MHz-2690MHz / NTN											
Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Conducted Power (dBm)				Total Output Power (dBm)	EIRP (dBm)	Gain (dB)
					Ant 1	Ant 2	Ant 3	Ant 4			
SISO mode											
2496MHz-2690MHz	2596.88	AWGN	Pre-AGC	-2.00	24.64	--	--	--	24.64	30.28	26.66
			3dB Above AGC	1.00	24.53	--	--	--	24.53	30.17	/
		GMSK	Pre-AGC	-2.00	23.95	--	--	--	23.95	29.59	25.73
			3dB Above AGC	1.00	24.50	--	--	--	24.50	30.14	/

2496MHz-2690MHz / NTN											
Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Total Output Power (dBm)			EIRP (dBm)			Gain (dB)
					SISO	2X2 MIMO	4X4 MIMO	SISO	2X2 MIMO	4X4 MIMO	
MIMO mode											
2496MHz-2690MHz	2596.88	AWGN	Pre-AGC	-2.00	24.64	27.65	30.66	30.28	33.29	36.30	/
			3dB Above AGC	1.00	24.53	27.54	30.55	30.17	33.18	36.19	/
		GMSK	Pre-AGC	-2.00	23.95	26.96	29.97	29.59	32.60	35.61	/
			3dB Above AGC	1.00	24.50	27.51	30.52	30.14	33.15	36.16	/



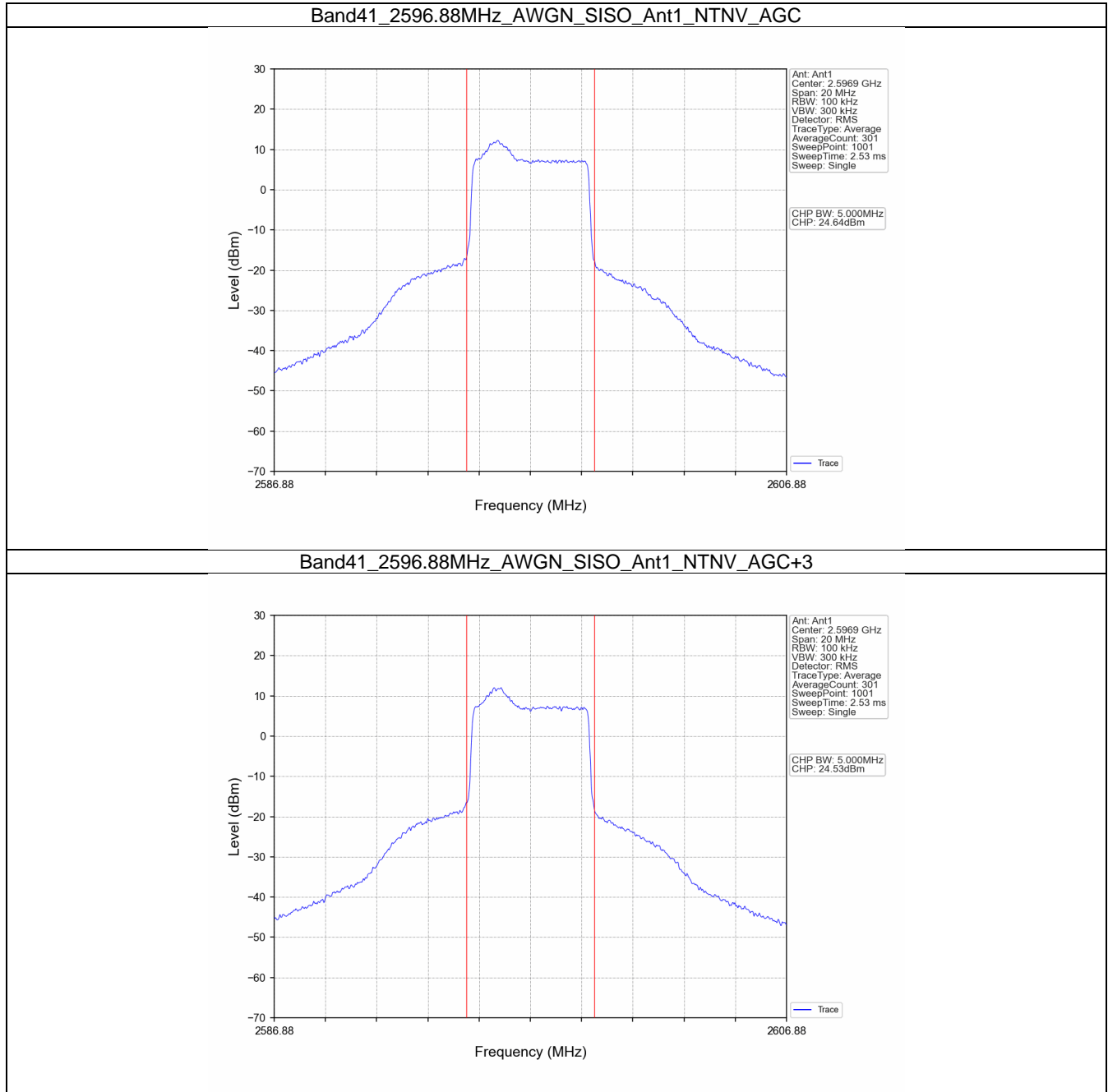
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4.1.2 Test Graph

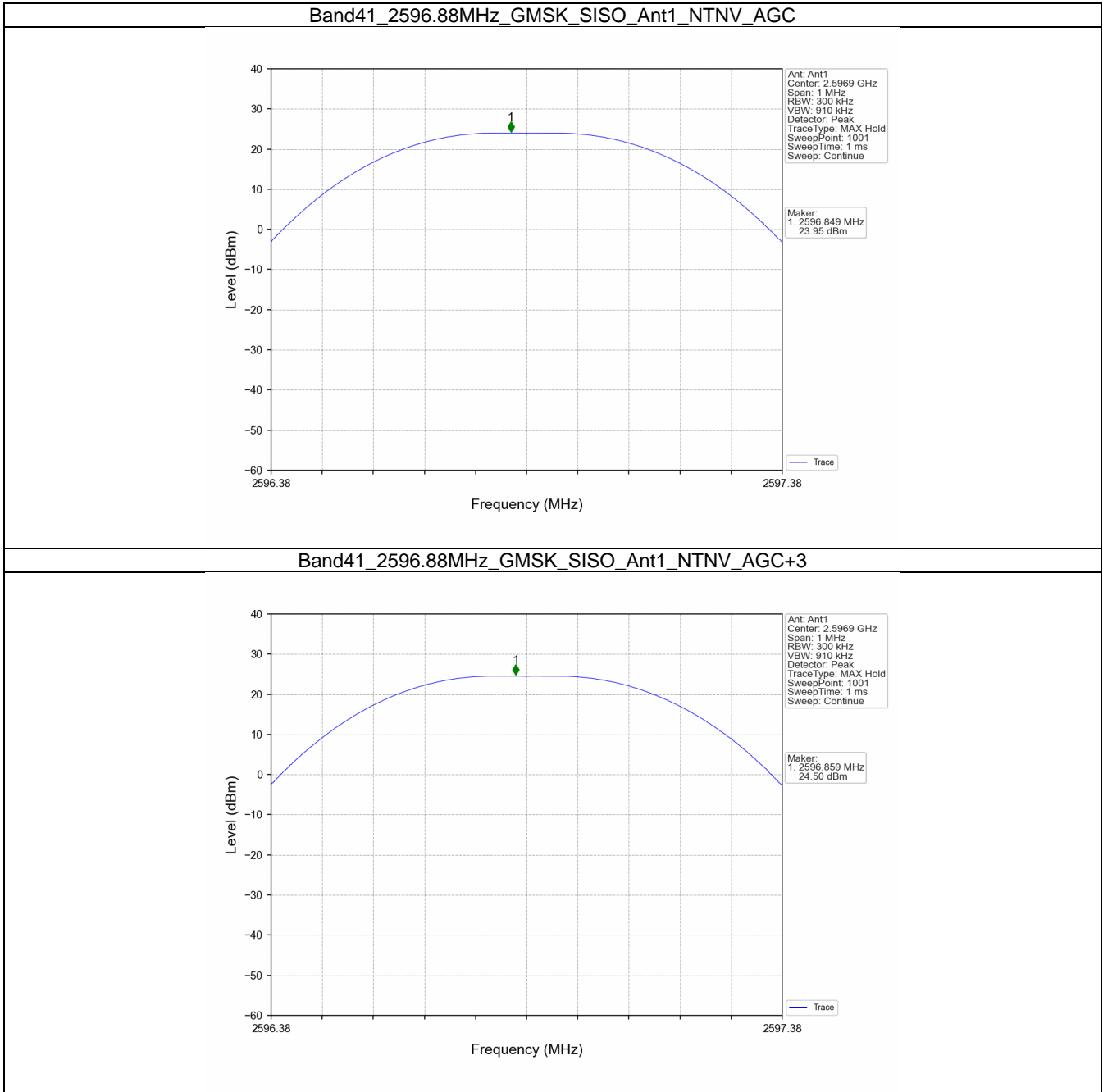


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4.2 Band41\_PAPR

4.2.1 Test Result

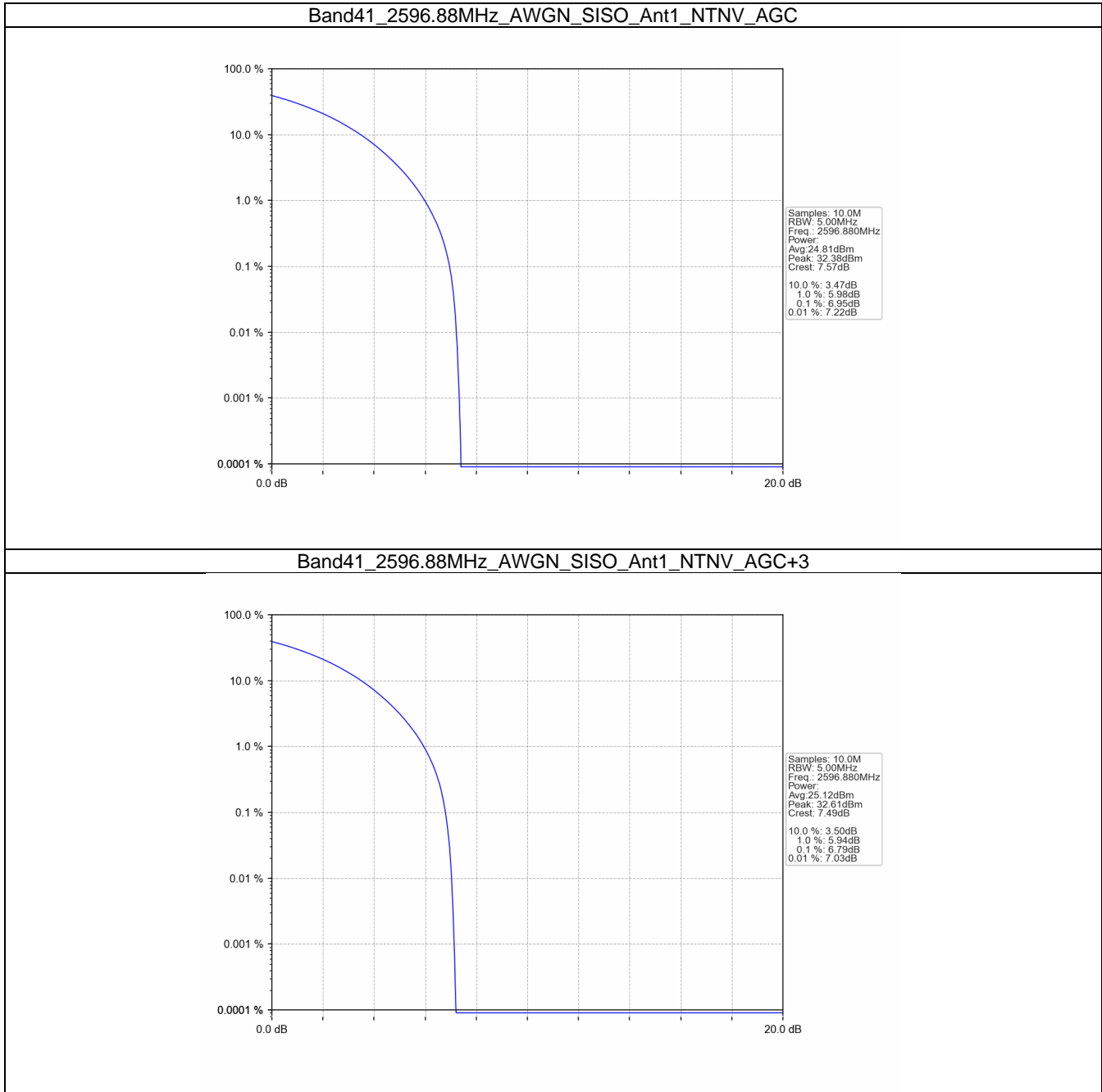
Band: 41 / NTV							
Type	Signal		TX Type	ANT	PAPR (dB)		Verdict
	Level (dBm)	Frequency (MHz)			Result	Limit	
AWGN	-2	2596.88	SISO	1	6.95	<=13	Pass
	1	2596.88	SISO	1	6.79	<=13	Pass
GMSK	-2	2596.88	SISO	1	0.26	<=13	Pass
	1	2596.88	SISO	1	0.26	<=13	Pass



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4.2.2 Test Graph

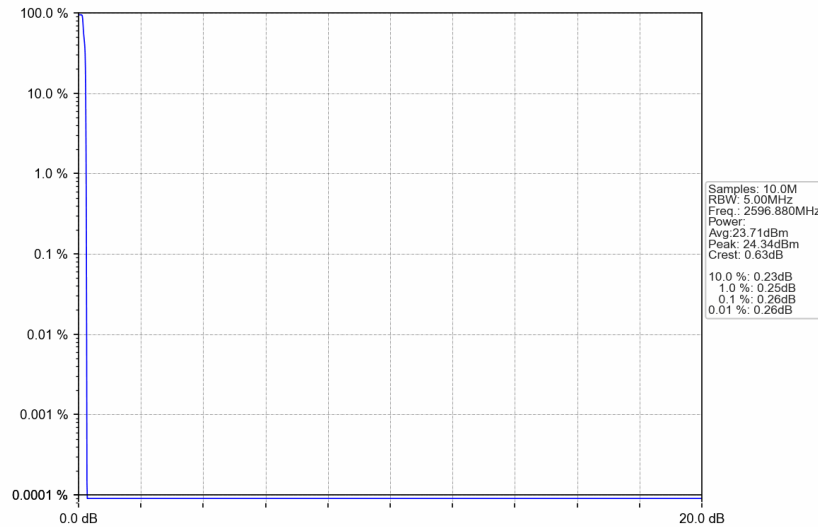


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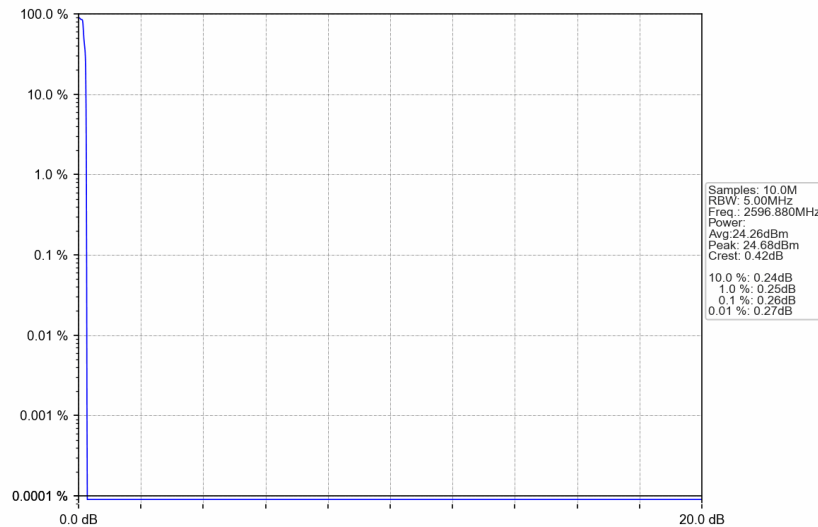
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Band41\_2596.88MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



Band41\_2596.88MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3



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

5.1 Band41

5.1.1 Test Result

Band: 41 / NTNV									
Input	Type	Signal		Channel	TX Type	ANT	OOB (dBm)		Verdict
		Level (dBm)	Frequency (MHz)				Result	Limit	
Two	AWGN	-2	2498.5	LCH	SISO	1	-54.32	Refer To Test Graph	Pass
		1	2498.5	LCH	SISO	1	-54.74	Refer To Test Graph	Pass
One	AWGN	-2	2498.5	LCH	SISO	1	-53.50	Refer To Test Graph	Pass
		1	2498.5	LCH	SISO	1	-50.91	Refer To Test Graph	Pass
Two	AWGN	-2	2687.5	HCH	SISO	1	-52.27	Refer To Test Graph	Pass
		1	2687.5	HCH	SISO	1	-47.67	Refer To Test Graph	Pass
One	AWGN	-2	2687.5	HCH	SISO	1	-52.30	Refer To Test Graph	Pass
		1	2687.5	HCH	SISO	1	-49.60	Refer To Test Graph	Pass
Two	GMSK	-2	2496.1	LCH	SISO	1	-26.48	Refer To Test Graph	Pass
		1	2496.1	LCH	SISO	1	-24.39	Refer To Test Graph	Pass
One	GMSK	-2	2496.1	LCH	SISO	1	-26.21	Refer To Test Graph	Pass
		1	2496.1	LCH	SISO	1	-24.46	Refer To Test Graph	Pass
Two	GMSK	-2	2689.9	HCH	SISO	1	-26.56	Refer To Test Graph	Pass
		1	2689.9	HCH	SISO	1	-22.86	Refer To Test Graph	Pass
One	GMSK	-2	2689.9	HCH	SISO	1	-26.47	Refer To Test Graph	Pass
		1	2689.9	HCH	SISO	1	-23.67	Refer To Test Graph	Pass

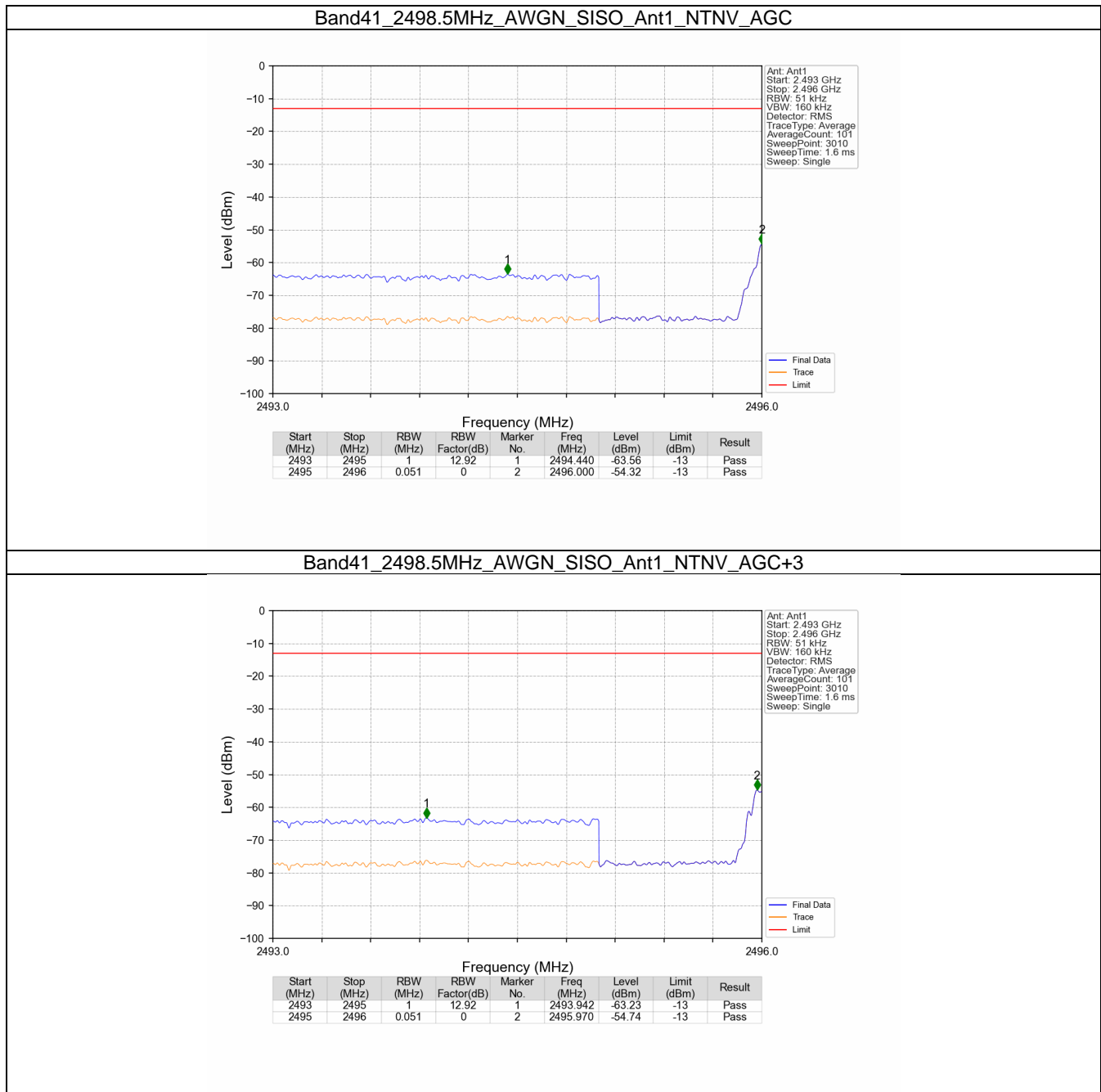


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5.1.2 Test Graph



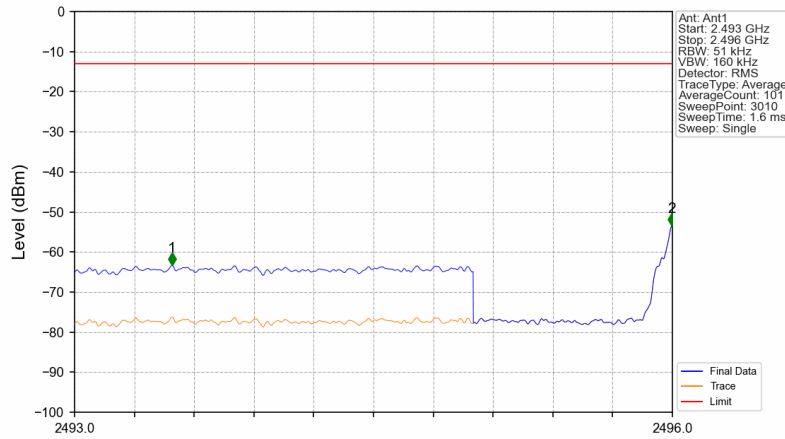
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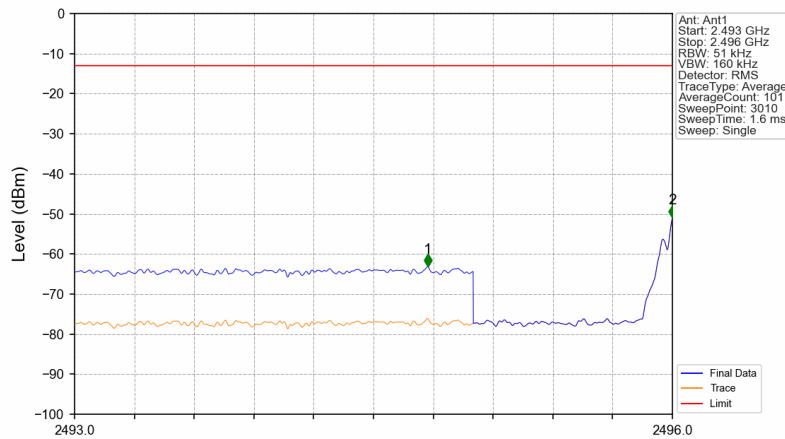
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### Band41\_2498.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2493	2495	1	12.92	1	2493.490	-63.34	-13	Pass
2495	2496	0.051	0	2	2495.998	-53.50	-13	Pass

### Band41\_2498.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2493	2495	1	12.92	1	2494.772	-63.20	-13	Pass
2495	2496	0.051	0	2	2496.000	-50.91	-13	Pass

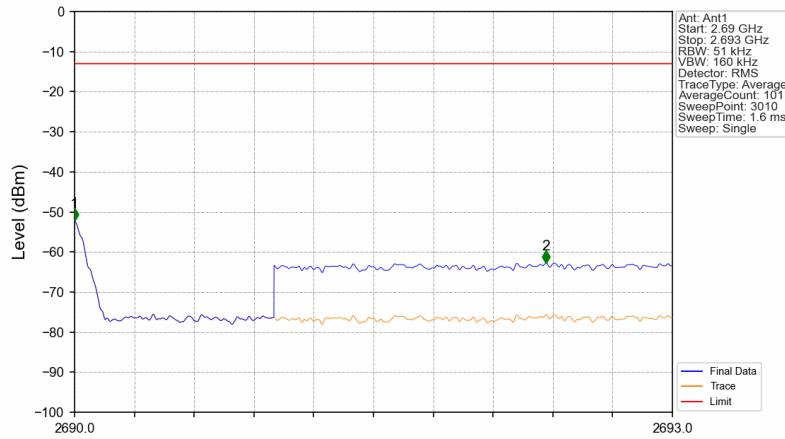


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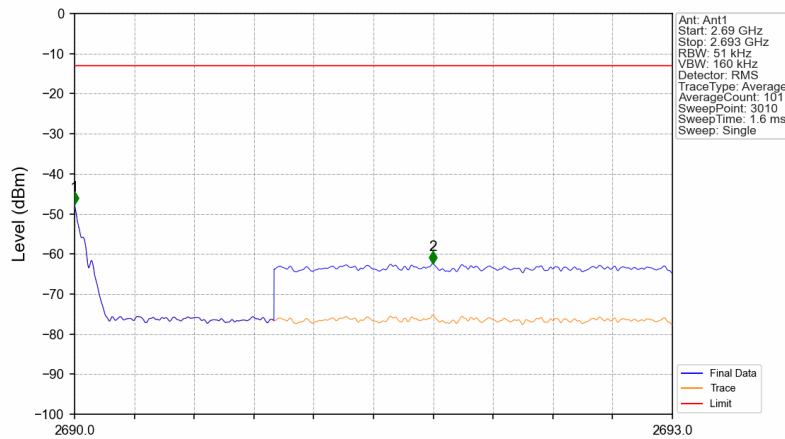
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### Band41\_2687.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	0.051	0	1	2690.000	-52.27	-13	Pass
2691	2693	1	12.92	2	2692.367	-62.73	-13	Pass

### Band41\_2687.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	0.051	0	1	2690.000	-47.67	-13	Pass
2691	2693	1	12.92	2	2691.798	-62.39	-13	Pass

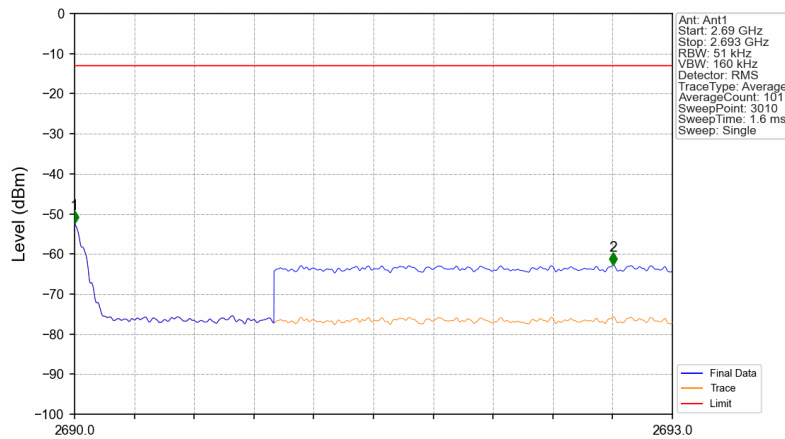


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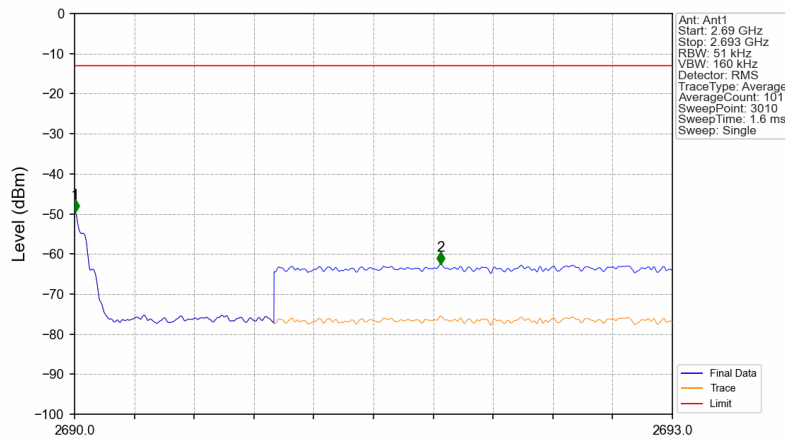
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### Band41\_2687.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	0.051	0	1	2690.000	-52.30	-13	Pass
2691	2693	1	12.92	2	2692.704	-62.73	-13	Pass

### Band41\_2687.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	0.051	0	1	2690.003	-49.60	-13	Pass
2691	2693	1	12.92	2	2691.836	-62.58	-13	Pass



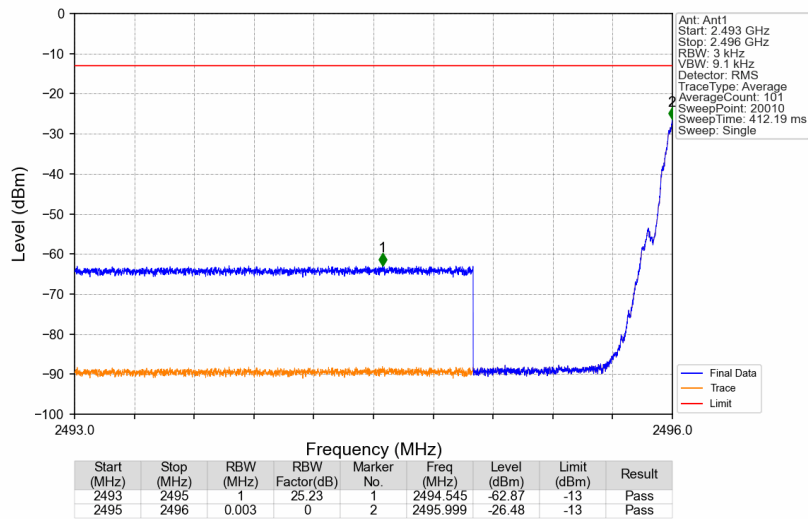
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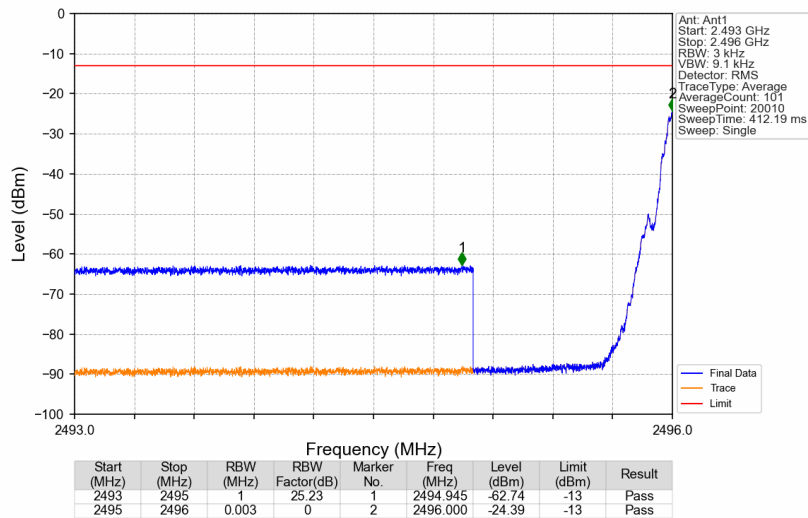
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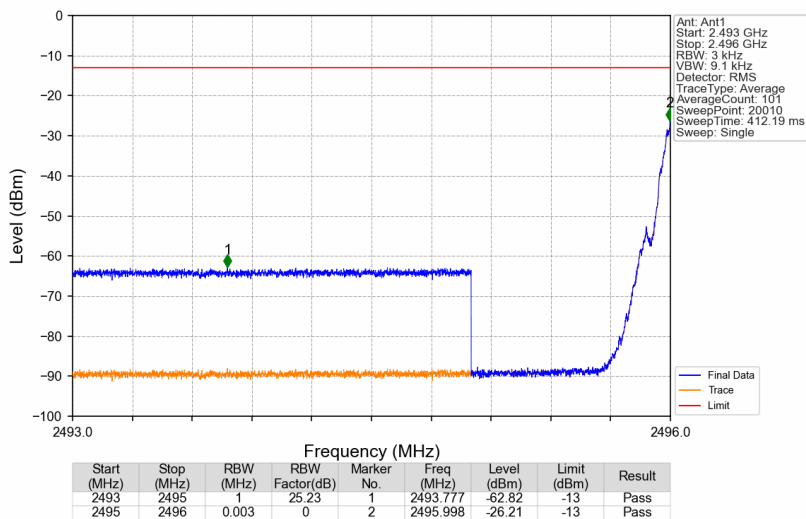
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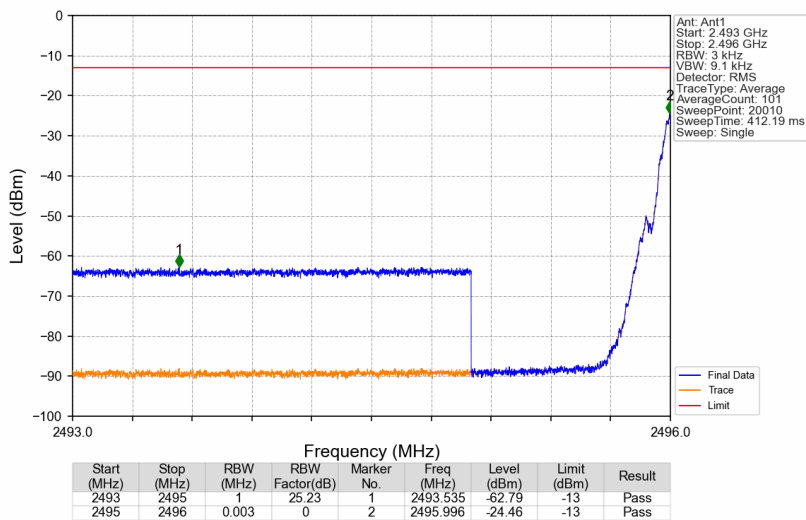
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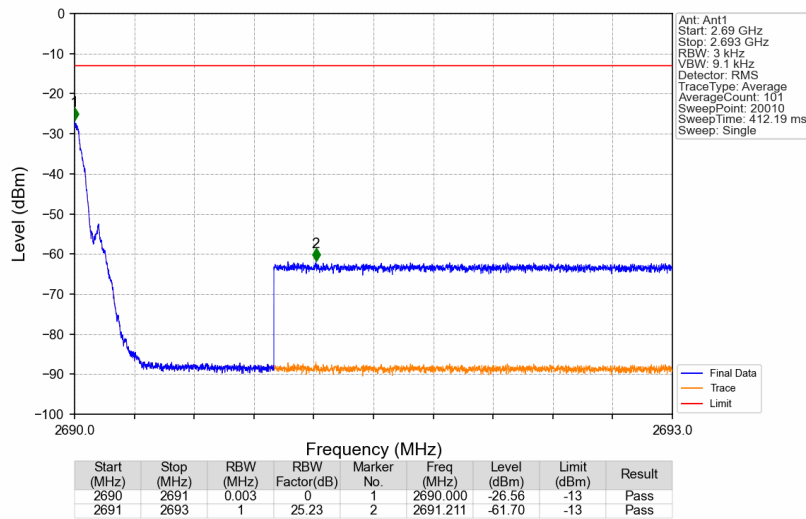
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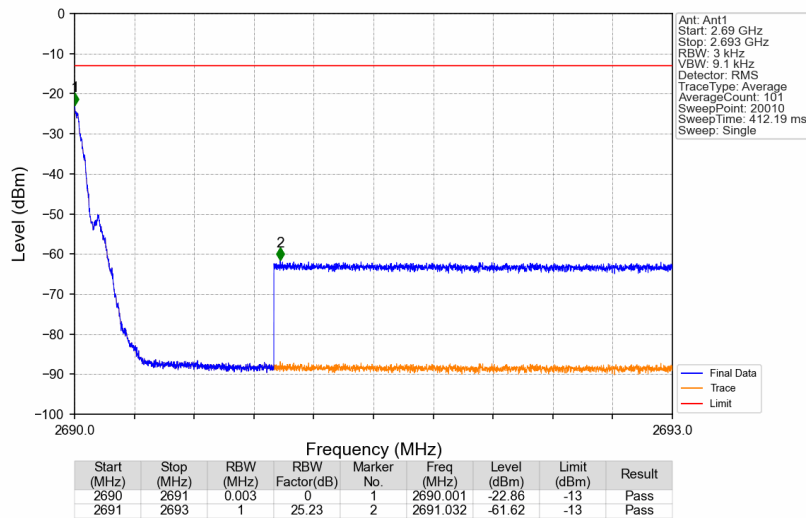
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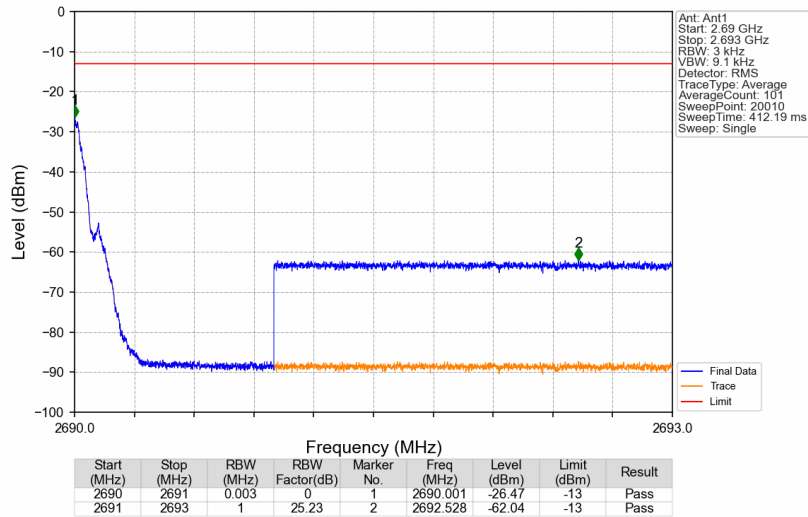
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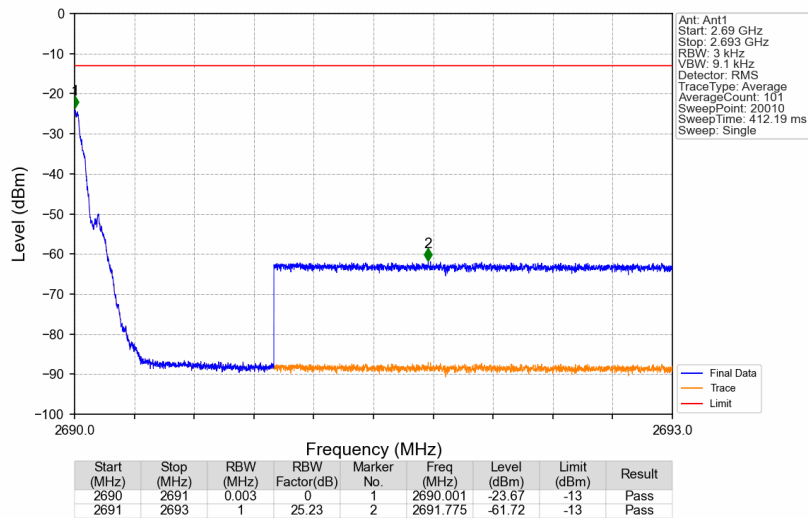
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## 6. Spurious emissions

### 6.1 Band41

#### 6.1.1 Test Result

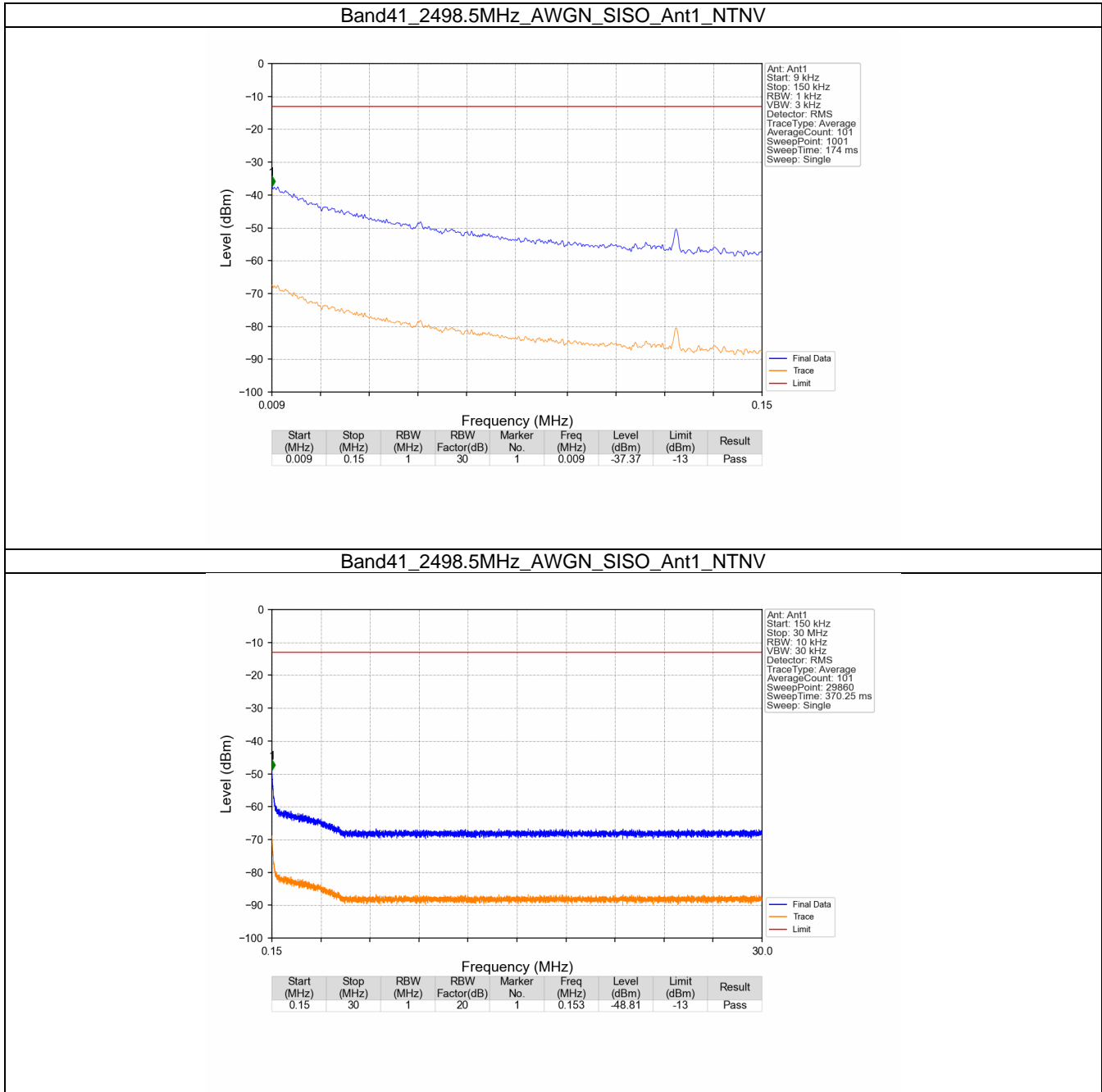
Band: 41 / NTVN								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
AWGN	-2	2498.5	LCH	SISO	1	Refer To Test Graph		Pass
		2593	MCH	SISO	1	Refer To Test Graph		Pass
		2687.5	HCH	SISO	1	Refer To Test Graph		Pass
GMSK	-2	2496.1	LCH	SISO	1	Refer To Test Graph		Pass
		2593	MCH	SISO	1	Refer To Test Graph		Pass
		2689.9	HCH	SISO	1	Refer To Test Graph		Pass



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6.1.2 Test Graph



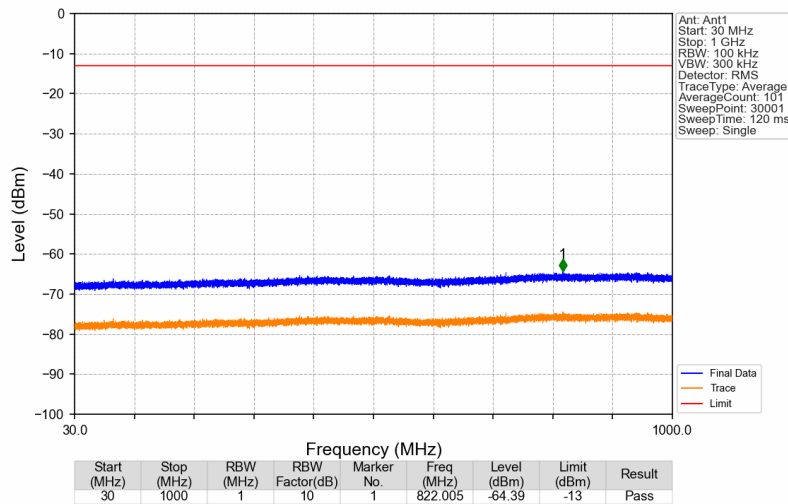
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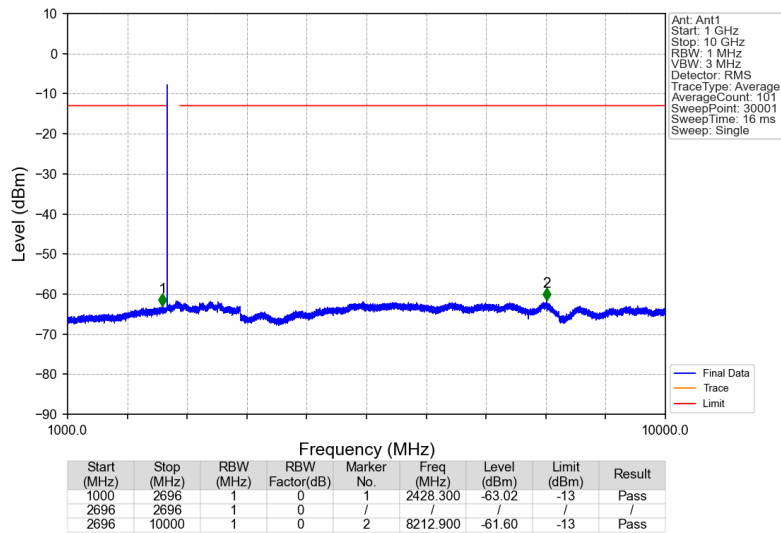
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### Band41\_2498.5MHz\_AWGN\_SISO\_Ant1\_NTNV



### Band41\_2498.5MHz\_AWGN\_SISO\_Ant1\_NTNV



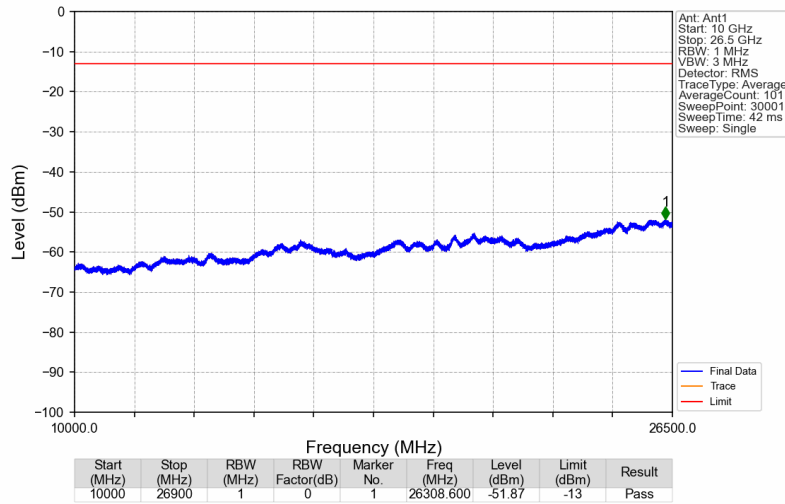
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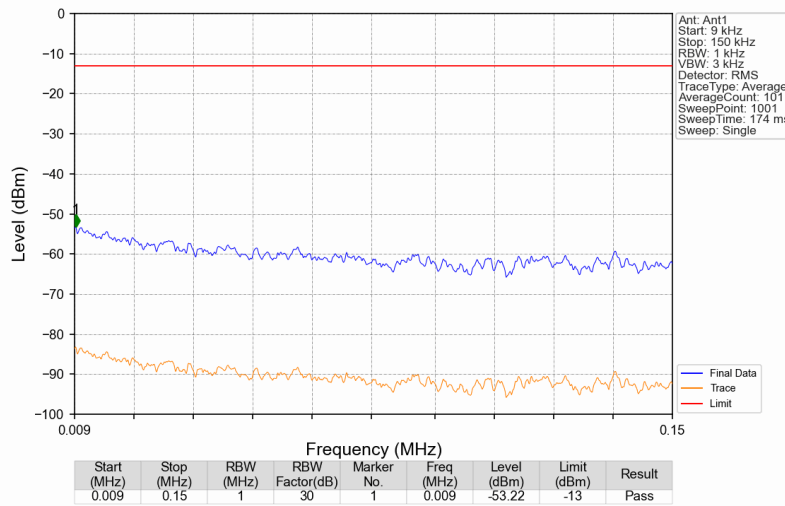
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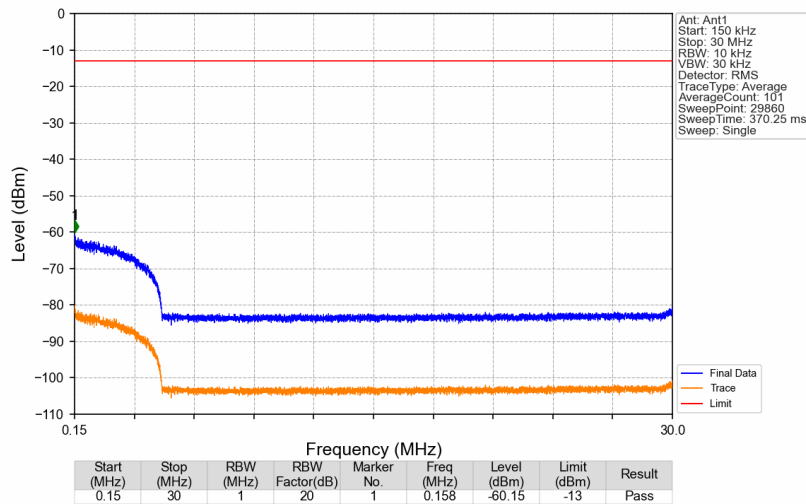


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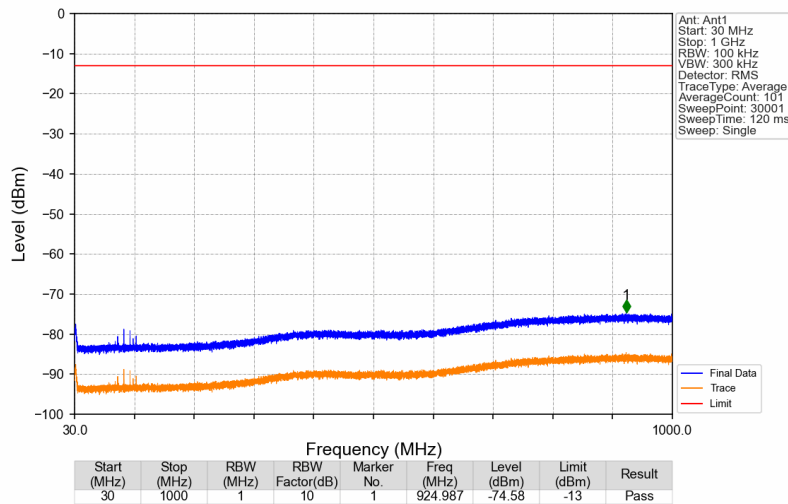
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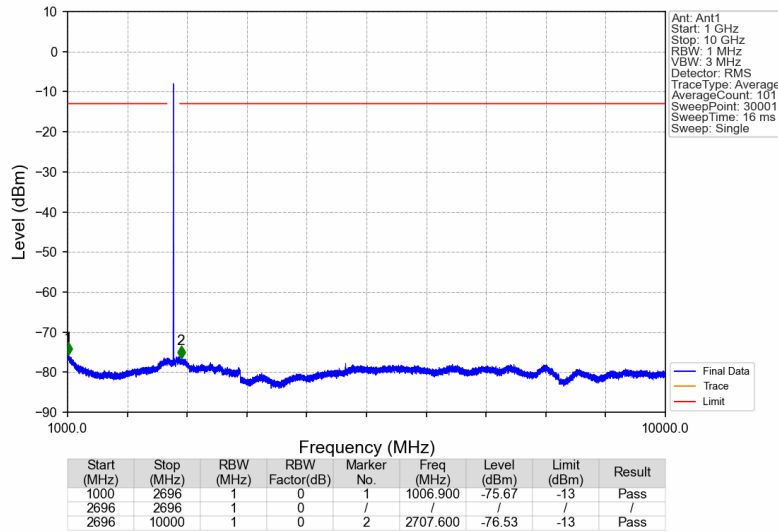


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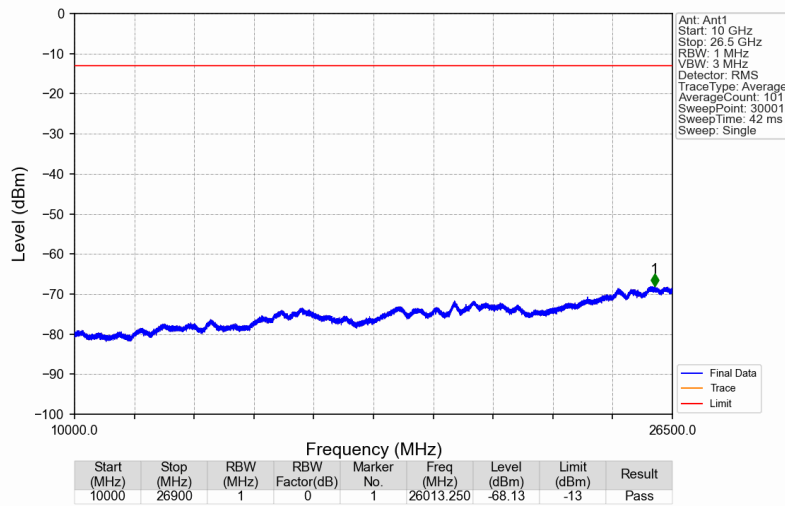
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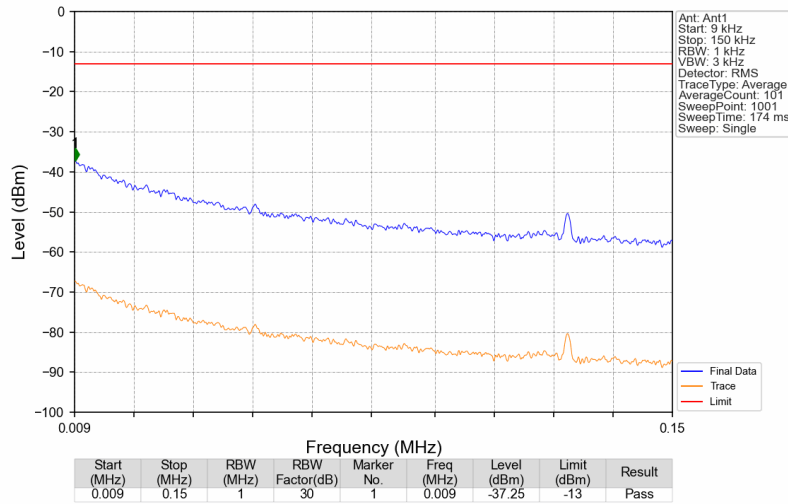


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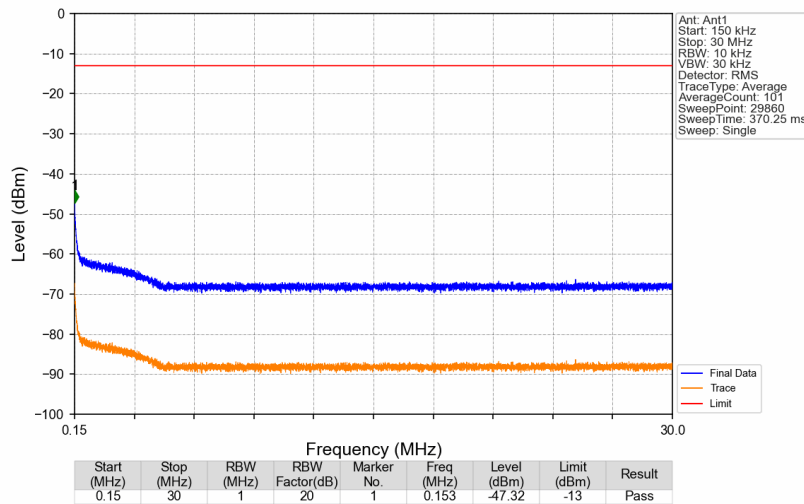
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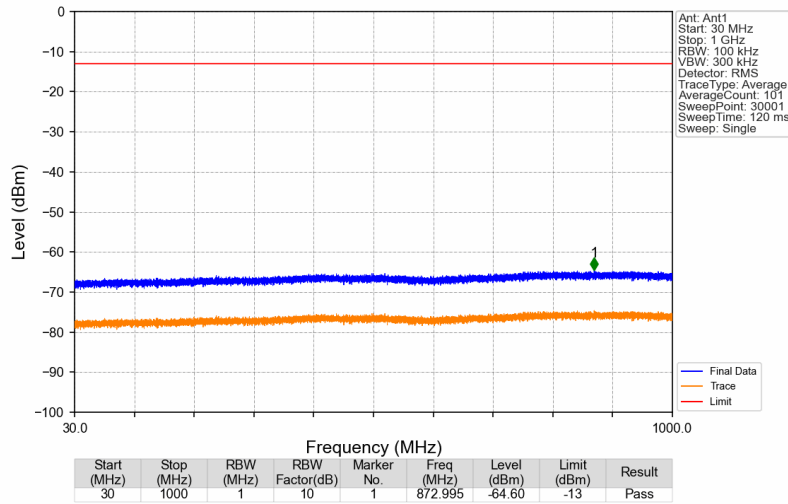
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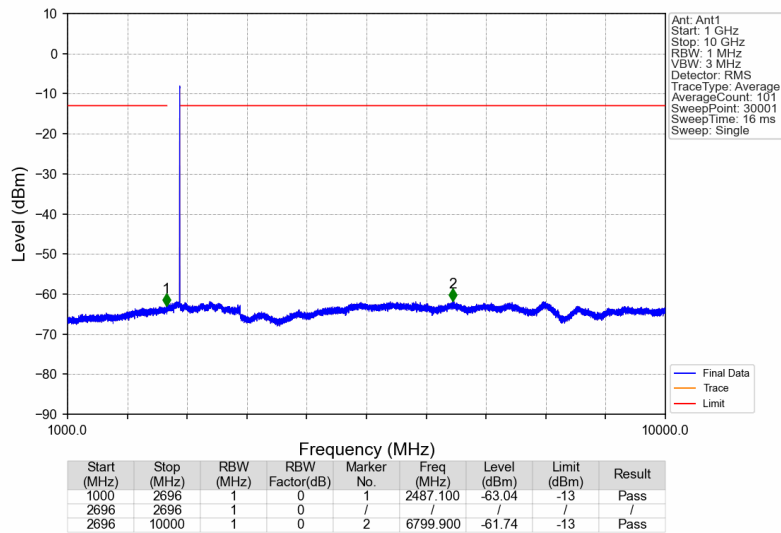
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Band41\_2687.5MHz\_AWGN\_SISO\_Ant1\_NTNV

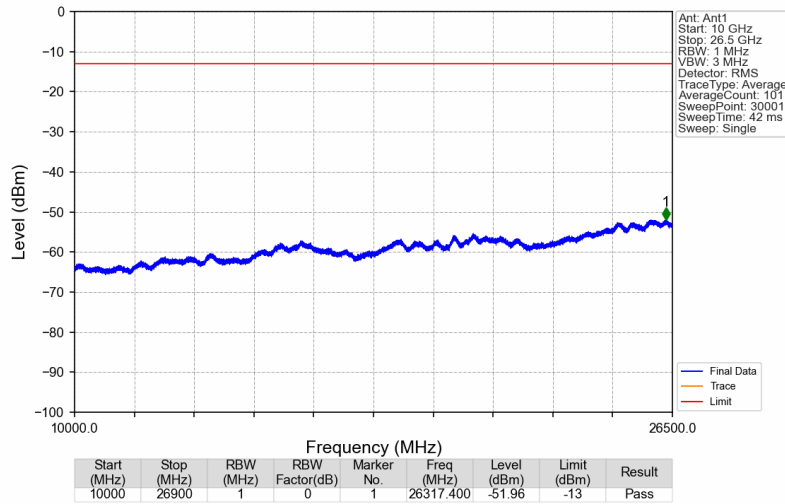


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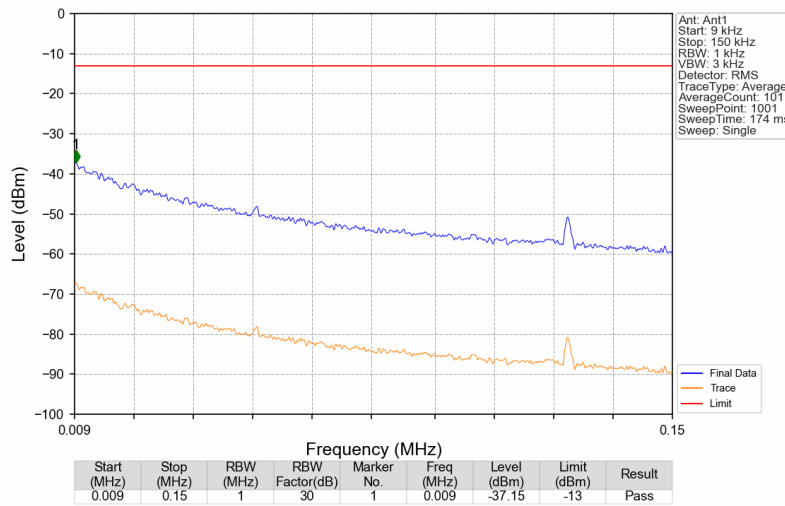
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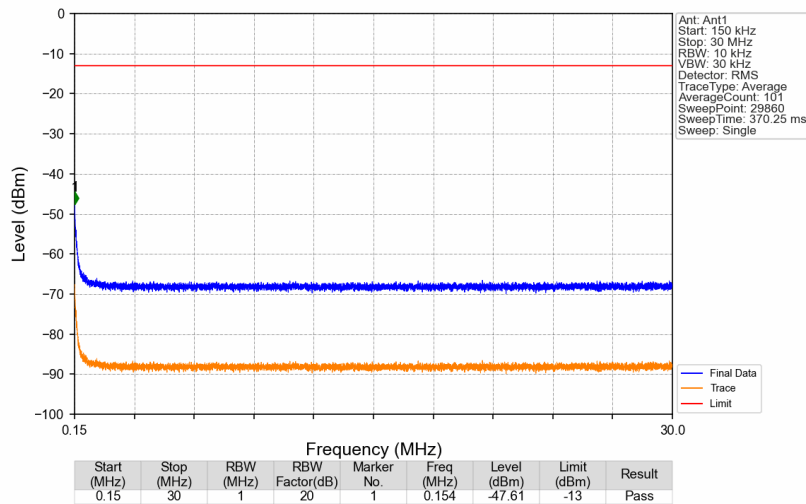
### Band41\_2496.1MHz\_GMSK\_SISO\_Ant1\_NTNV



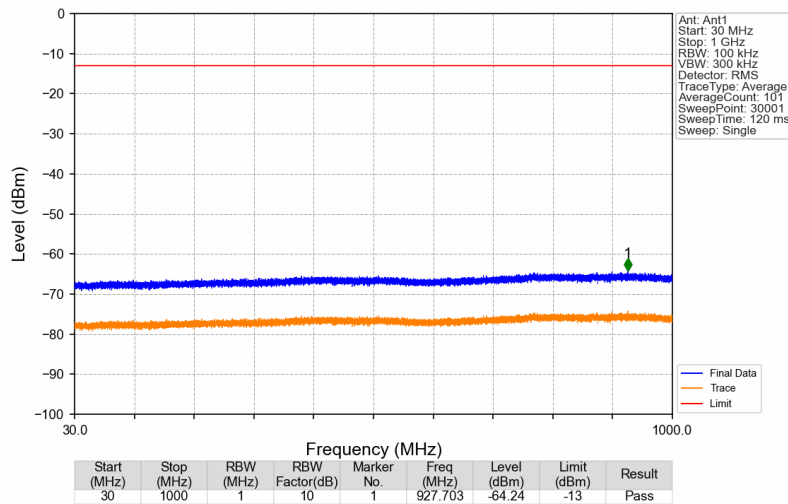
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Band41\_2496.1MHz\_GMSK\_SISO\_Ant1\_NTNV



Band41\_2496.1MHz\_GMSK\_SISO\_Ant1\_NTNV

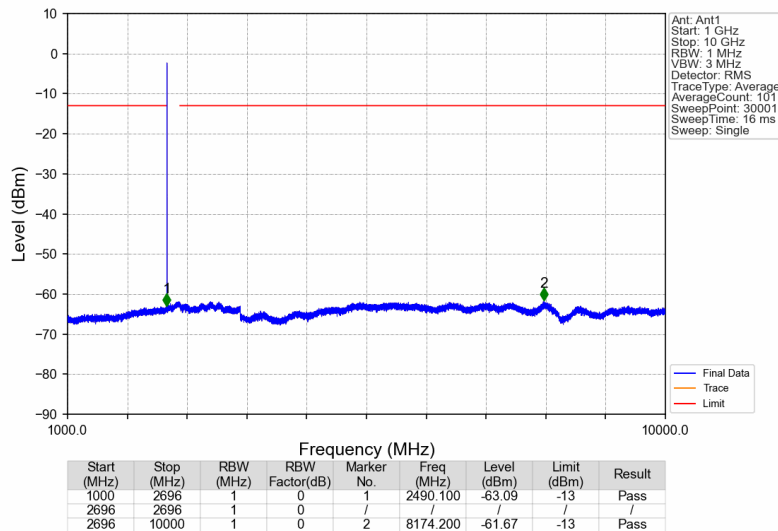


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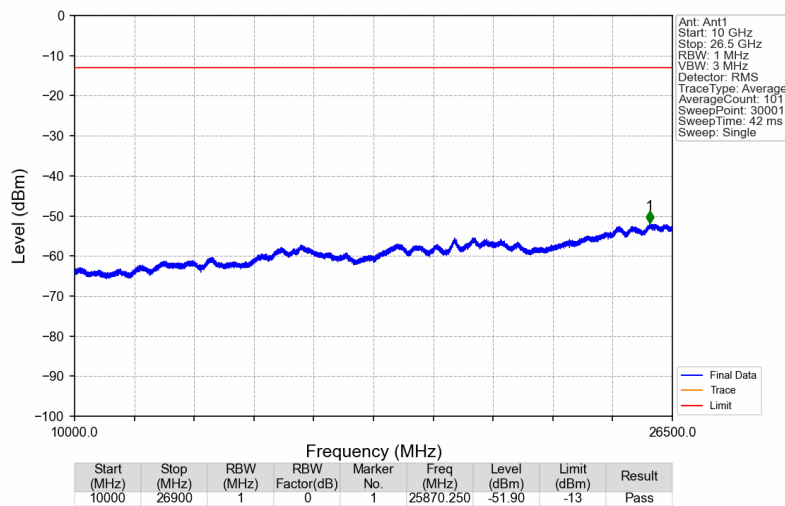
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### Band41\_2496.1MHz\_GMSK\_SISO\_Ant1\_NTNV



### Band41\_2496.1MHz\_GMSK\_SISO\_Ant1\_NTNV

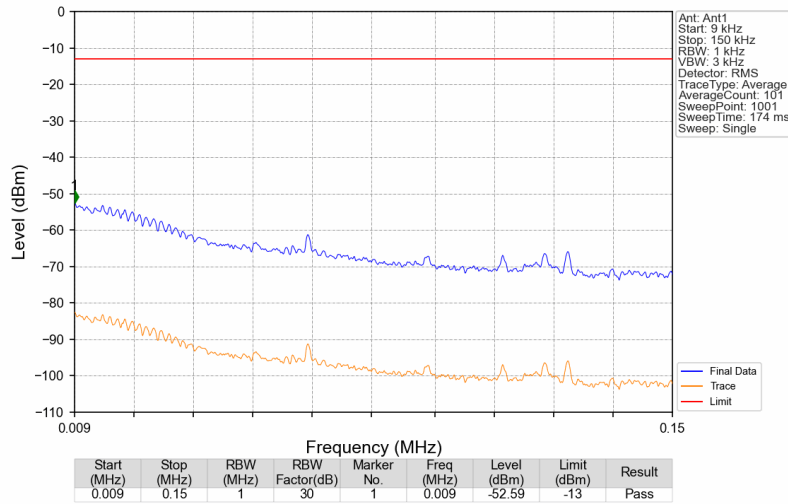


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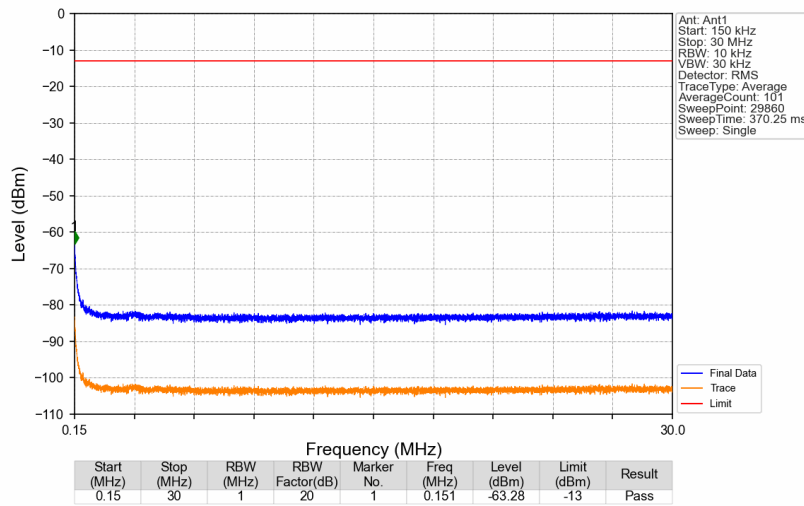
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Band41\_2593MHz\_GMSK\_SISO\_Ant1\_NTNV



Band41\_2593MHz\_GMSK\_SISO\_Ant1\_NTNV



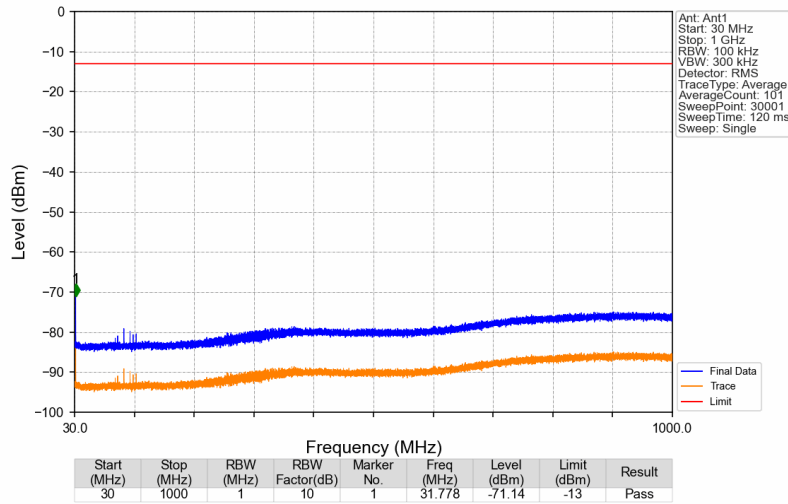
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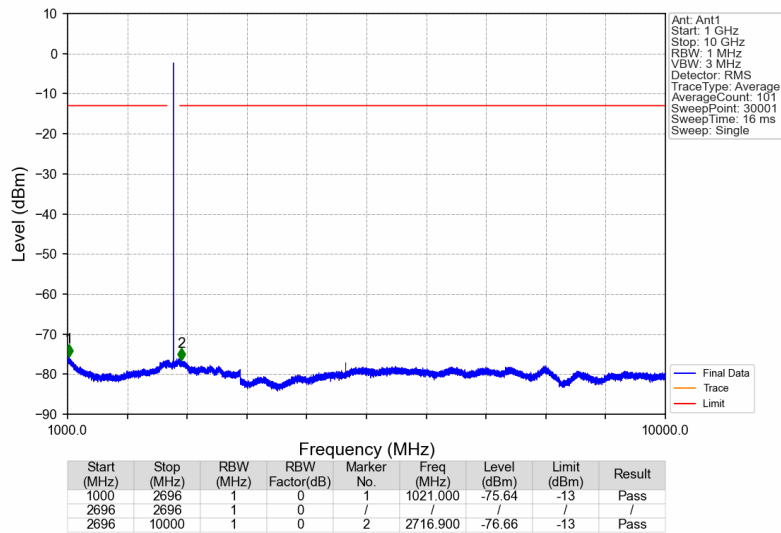
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### Band41\_2593MHz\_GMSK\_SISO\_Ant1\_NTNV



### Band41\_2593MHz\_GMSK\_SISO\_Ant1\_NTNV

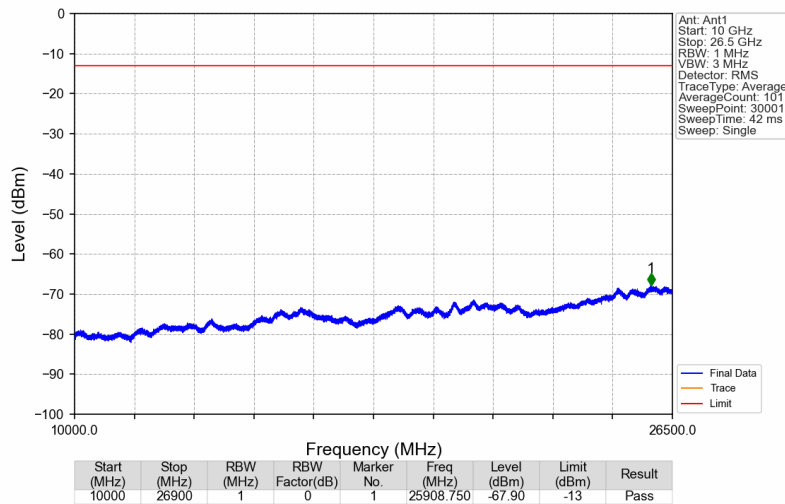


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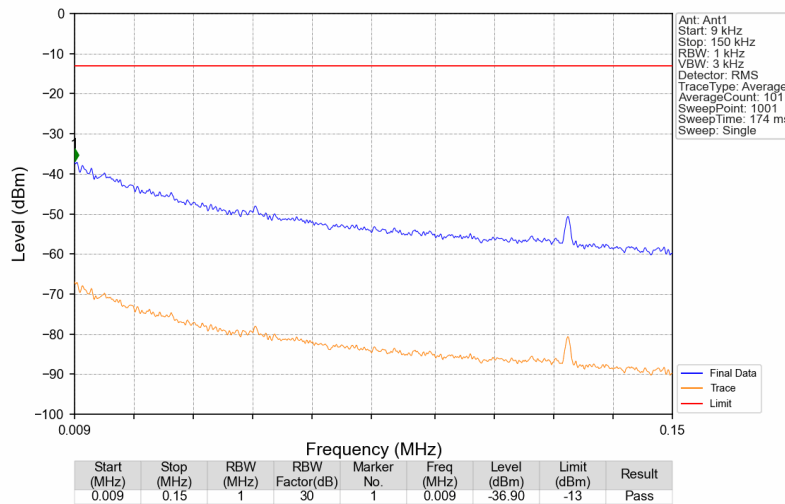
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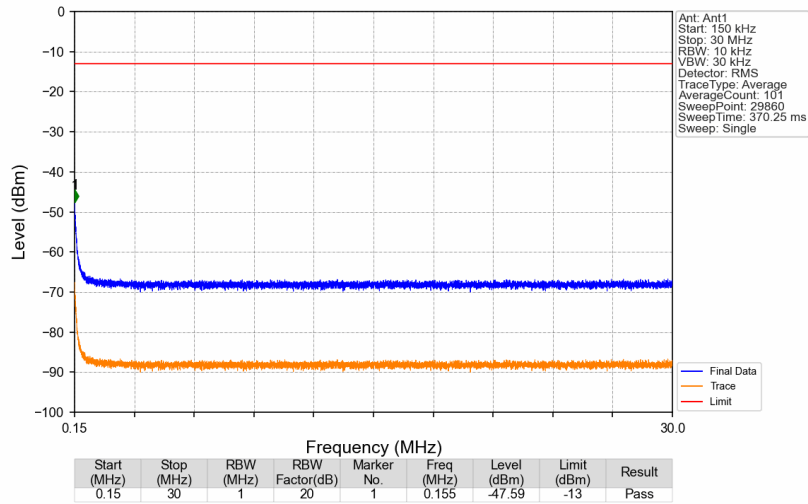
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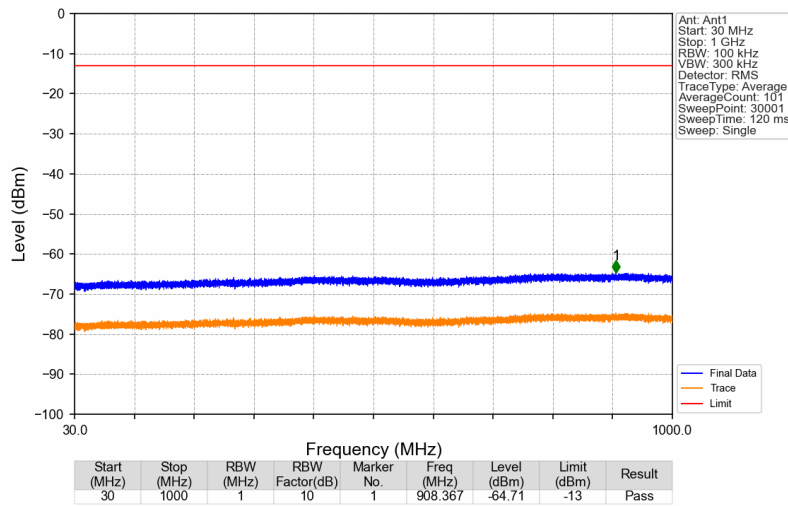
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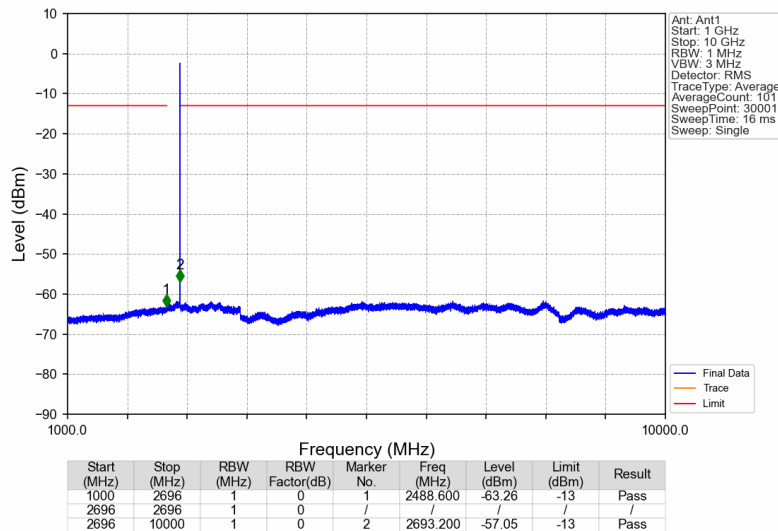


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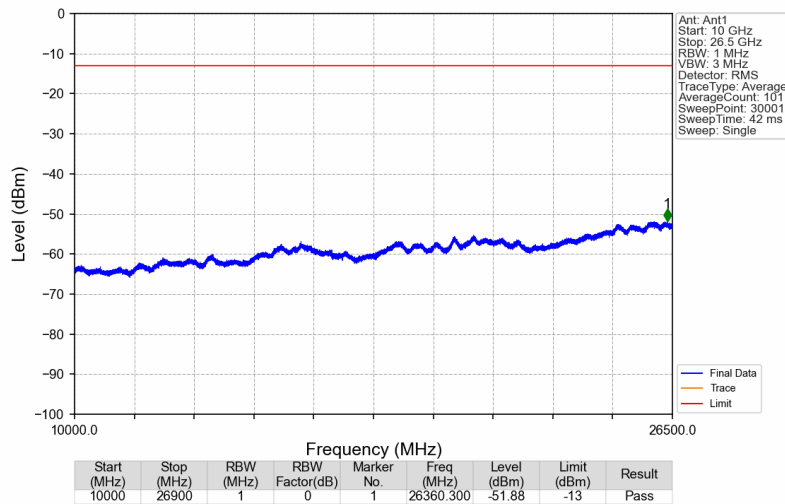
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## 7. Frequency stability measurements

### 7.1 Band41\_Ant1

#### 7.1.1 Test Result

Band: 41 / NTNV								
Signal			Temp (°C)	Voltage (VDC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict	
Type	Level (dBm)	Frequency (MHz)						
CW	-2	2496.1	20	40.8	0.00	0.00	Pass	
				48	0.00	0.00	Pass	
				55.2	0.00	0.00	Pass	
			-30	48	0.00	0.00	Pass	
				-20	48	0.00	0.00	Pass
					48	0.00	0.00	Pass
			-10	48	0.00	0.00	Pass	
				0	48	0.00	0.00	Pass
			10	48	0.00	0.00	Pass	
			30	48	0.00	0.00	Pass	
		40	48	0.00	0.00	Pass		
		50	48	0.00	0.00	Pass		
		2593	20	40.8	0.00	0.00	Pass	
				48	0.00	0.00	Pass	
				55.2	0.00	0.00	Pass	
			-30	48	0.00	0.00	Pass	
				-20	48	0.00	0.00	Pass
					48	0.00	0.00	Pass
			-10	48	0.00	0.00	Pass	
				0	48	0.00	0.00	Pass
			10	48	0.00	0.00	Pass	
			30	48	0.00	0.00	Pass	
		40	48	0.00	0.00	Pass		
		50	48	0.00	0.00	Pass		
		2689.9	20	40.8	0.00	0.00	Pass	
				48	0.00	0.00	Pass	
				55.2	0.00	0.00	Pass	
			-30	48	0.00	0.00	Pass	
				-20	48	0.00	0.00	Pass
					48	0.00	0.00	Pass
-10	48		0.00	0.00	Pass			
	0		48	0.00	0.00	Pass		
10	48		0.00	0.00	Pass			
30	48		0.00	0.00	Pass			
40	48	0.00	0.00	Pass				
50	48	0.00	0.00	Pass				



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