

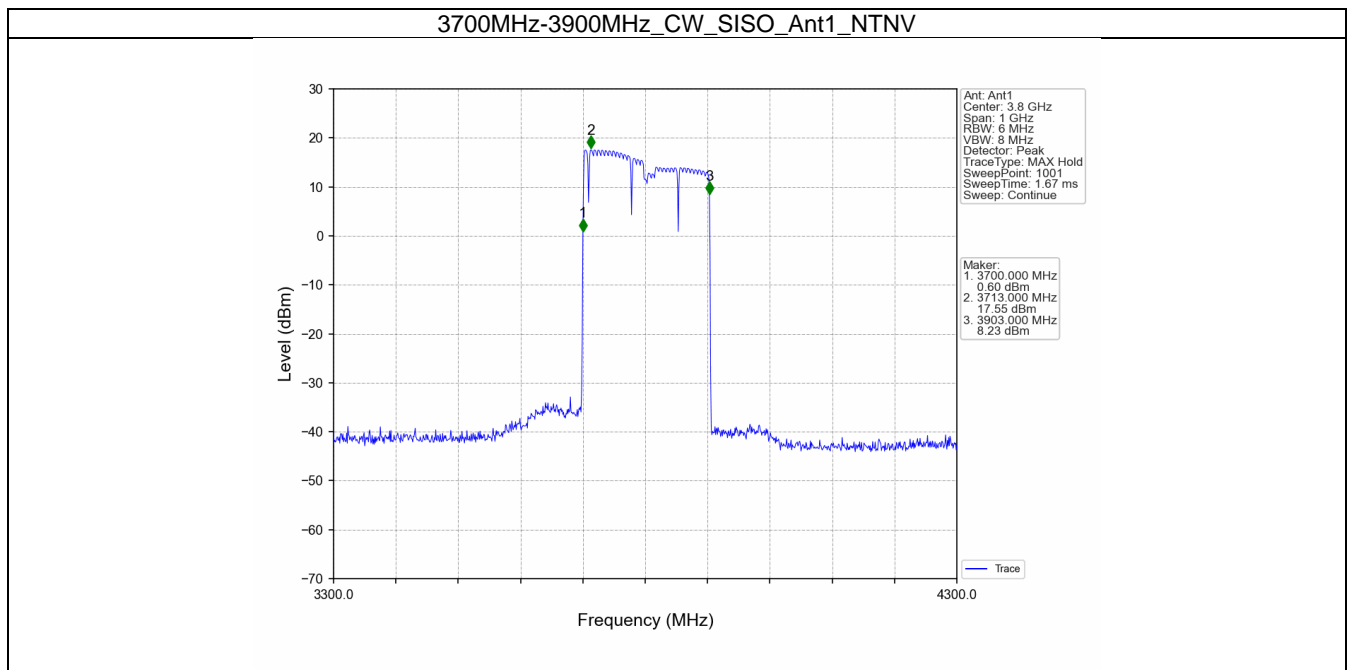
Appendix E for KSCR220600104502-FCC WWAN repeater(3700MHz-3900MHz)

1. Out of band rejection

1.1. Test Result

3700MHz-3900MHz / NTV							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	3300 - 4300	SISO	1	3713.000	3700.000	3903.000	Pass

1.1.1 Test Graph



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2. AGC threshold

2.1.1 Test Result

3700MHz-3900MHz / NTV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
AWGN	3713	SISO	1	0.50	Pass
GMSK	3713	SISO	1	-2.50	Pass

3. Input-versus-output signal comparison

3.1 3700MHz-3900MHz_OBW

3.1.1 Test Result

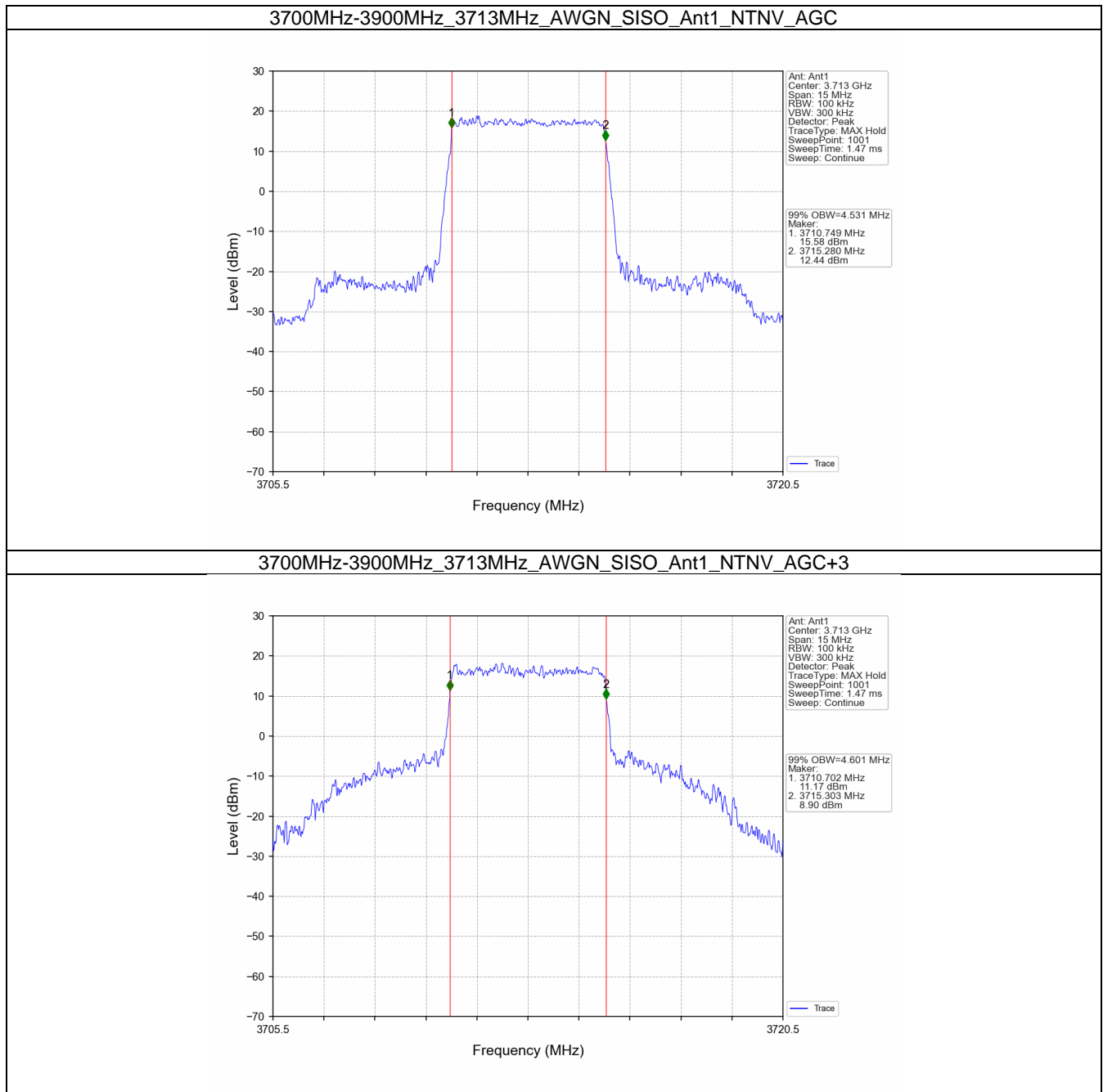
3700MHz-3900MHz / NTV							
Type	Signal		TX Type	ANT	99% OBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	3.5	3713	SISO	1	4.531	4.540	Pass
	0.5	3713	SISO	1	4.601	4.529	Pass
GMSK	0.5	3713	SISO	1	0.246	0.242	Pass
	-2.5	3713	SISO	1	0.245	0.244	Pass



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3.1.2 Test Graph



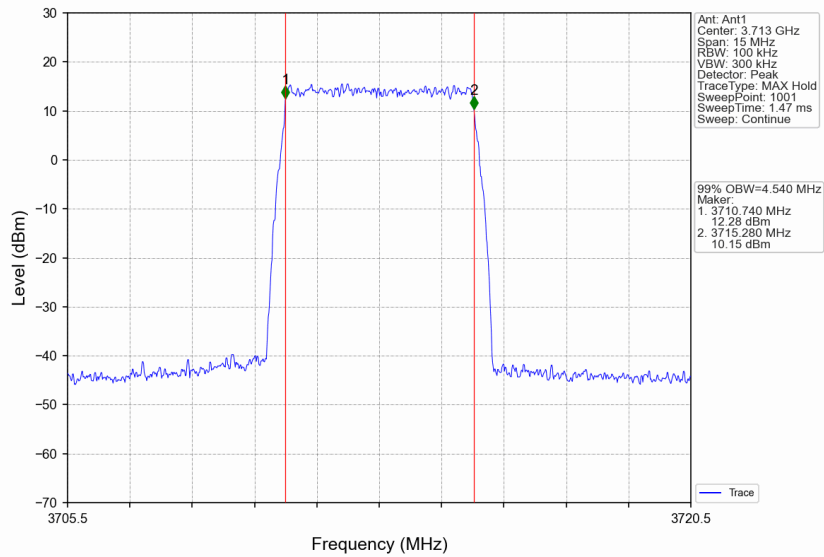
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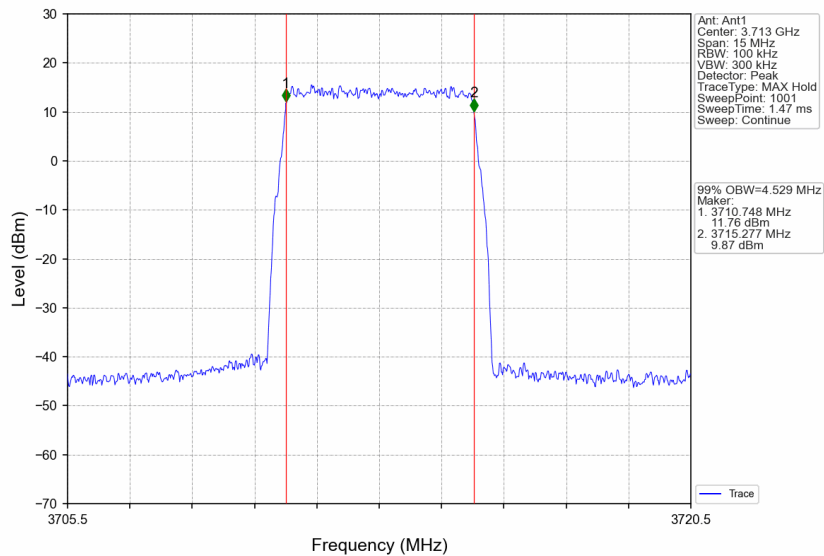
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3700MHz-3900MHz_3713MHz_AWGN_SISO_Ant1_NTNV_AGC+3



3700MHz-3900MHz_3713MHz_AWGN_SISO_Ant1_NTNV_AGC

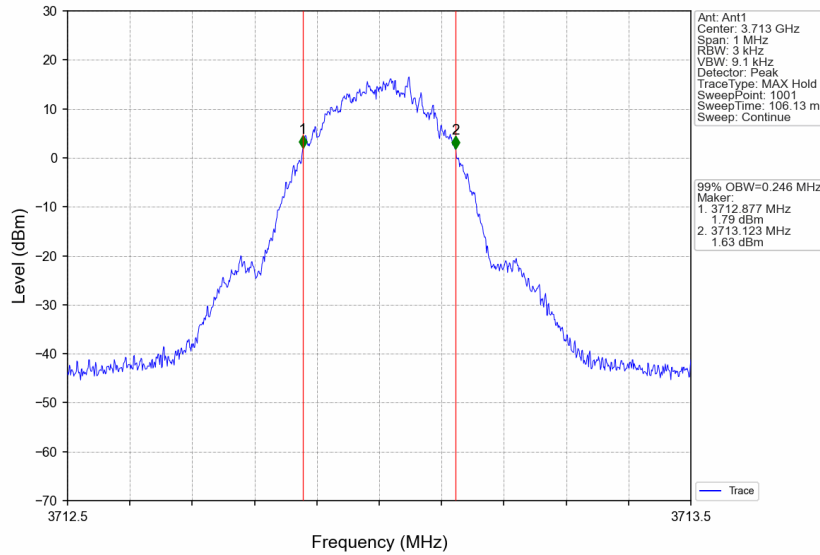


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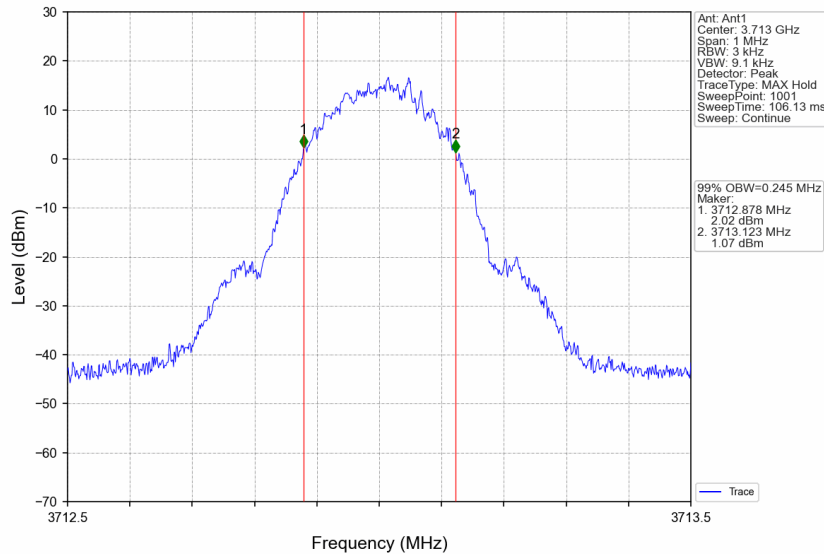
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3700MHz-3900MHz_3713MHz_GMSK_SISO_Ant1_NTNV_AGC



3700MHz-3900MHz_3713MHz_GMSK_SISO_Ant1_NTNV_AGC+3

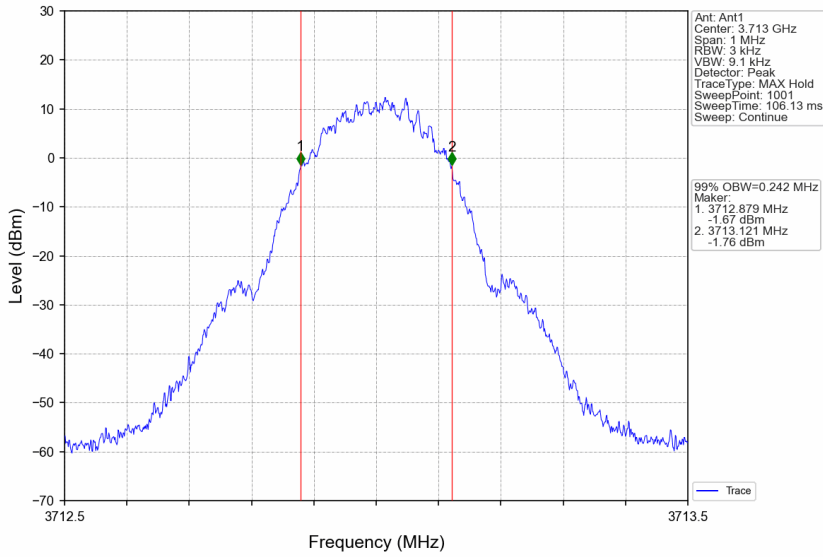


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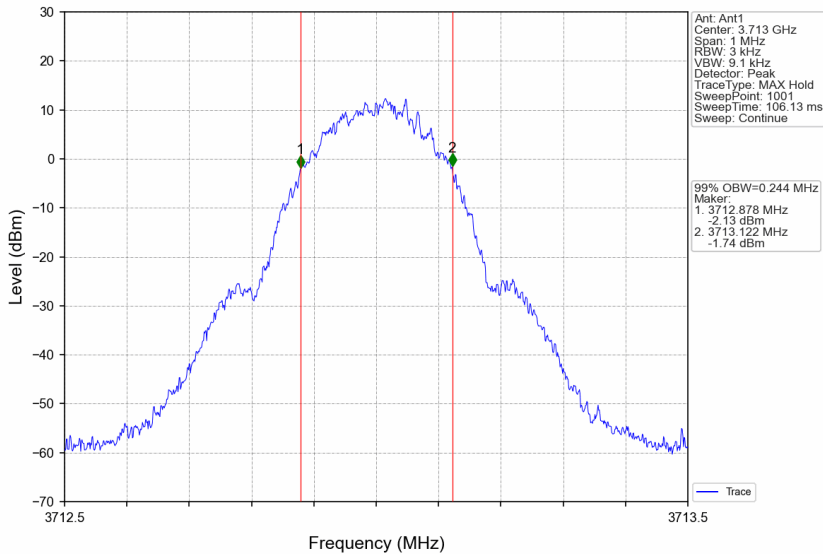
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3700MHz-3900MHz_3713MHz_GMSK_SISO_Ant1_NTNV_AGC+3



3700MHz-3900MHz_3713MHz_GMSK_SISO_Ant1_NTNV_AGC



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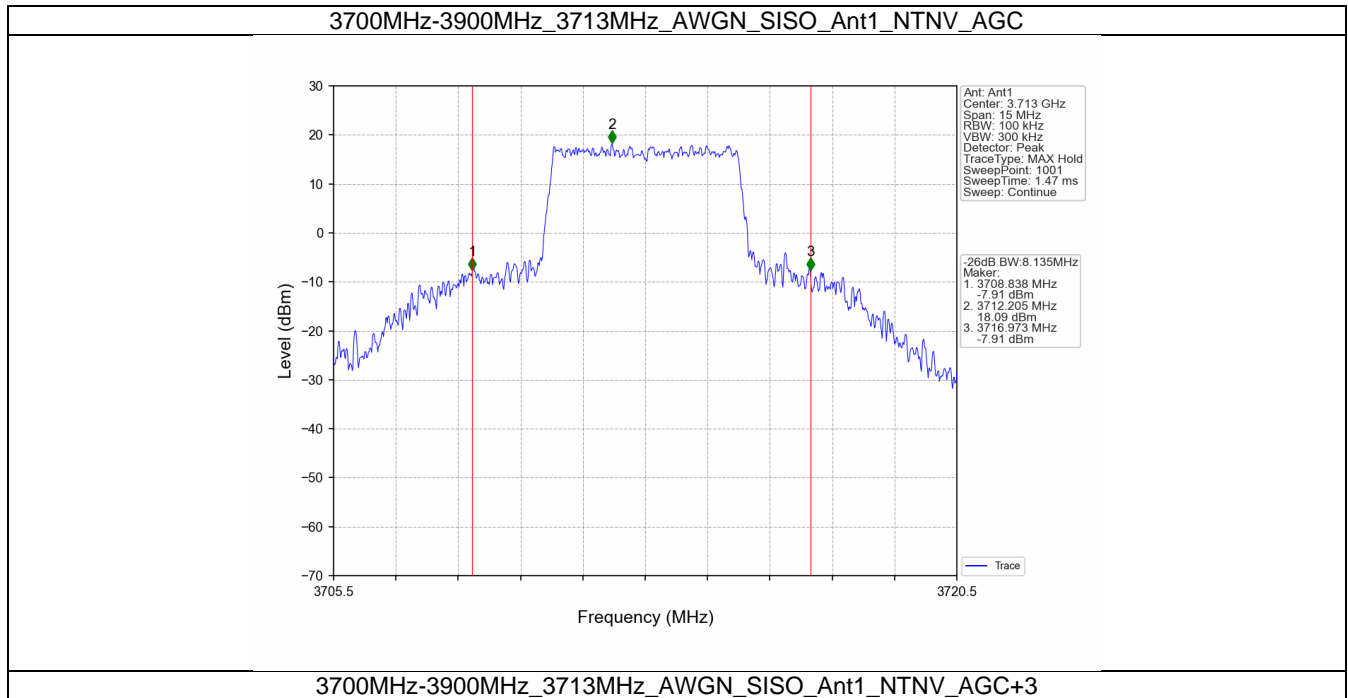
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3.2 3700MHz-3900MHz_EBW

3.2.1 Test Result

3700MHz-3900MHz / NTV							
Signal			TX Type	ANT	26dB EBW (MHz)		Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	3.5	3713	SISO	1	8.135	5.071	Pass
	0.5	3713	SISO	1	5.159	5.045	Pass
GMSK	0.5	3713	SISO	1	0.314	0.312	Pass
	-2.5	3713	SISO	1	0.314	0.313	Pass

3.2.2 Test Graph

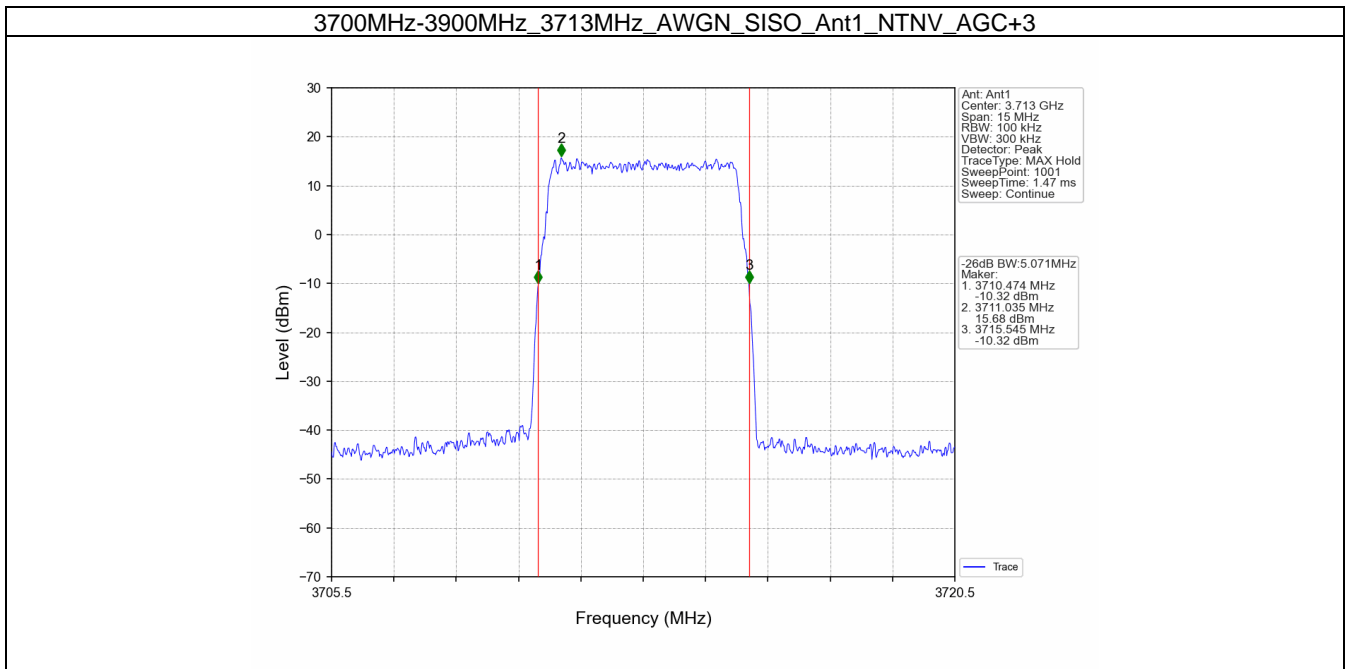
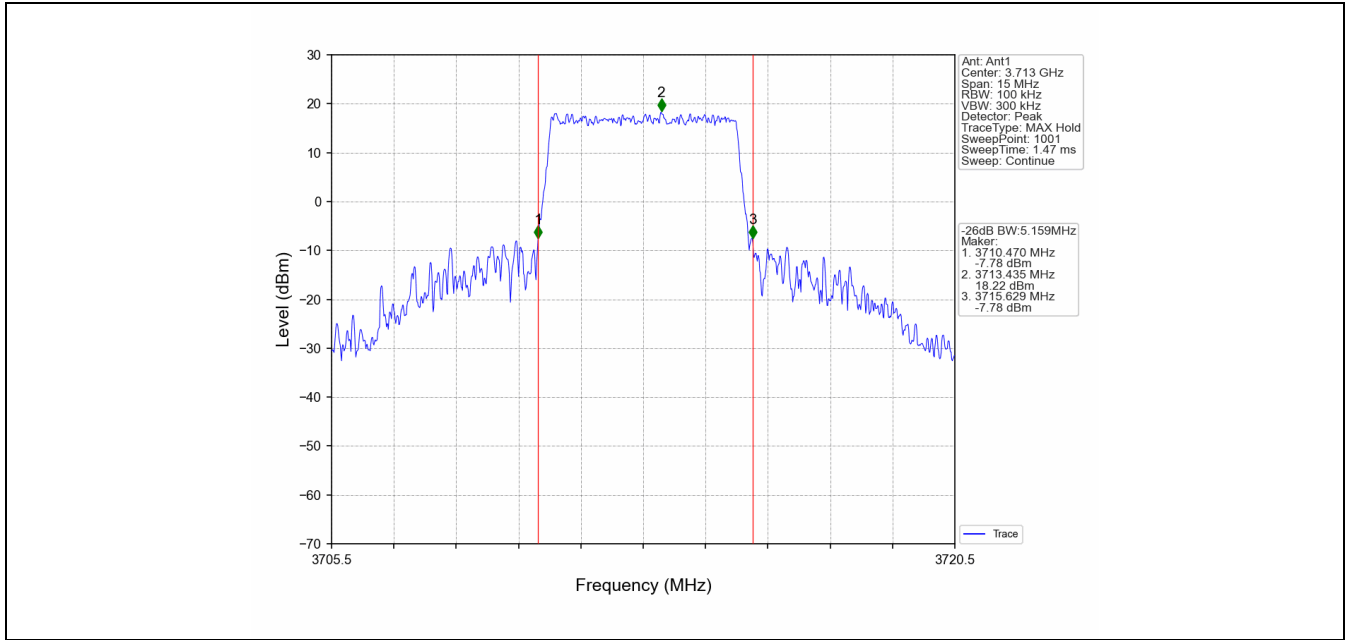


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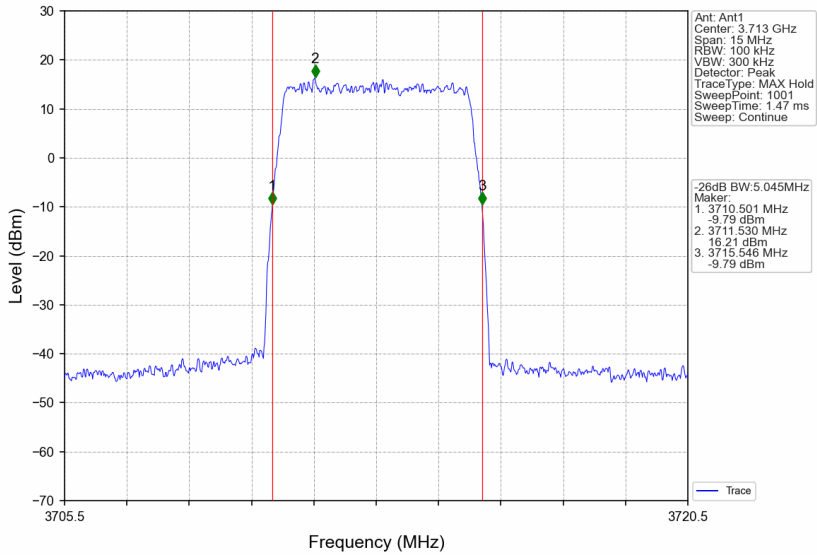


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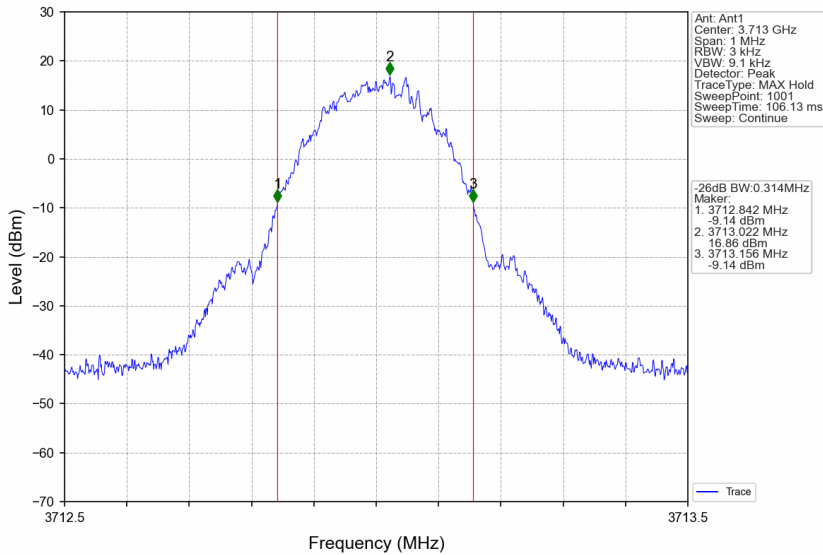
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3700MHz-3900MHz_3713MHz_AWGN_SISO_Ant1_NTNV_AGC



3700MHz-3900MHz_3713MHz_GMSK_SISO_Ant1_NTNV_AGC



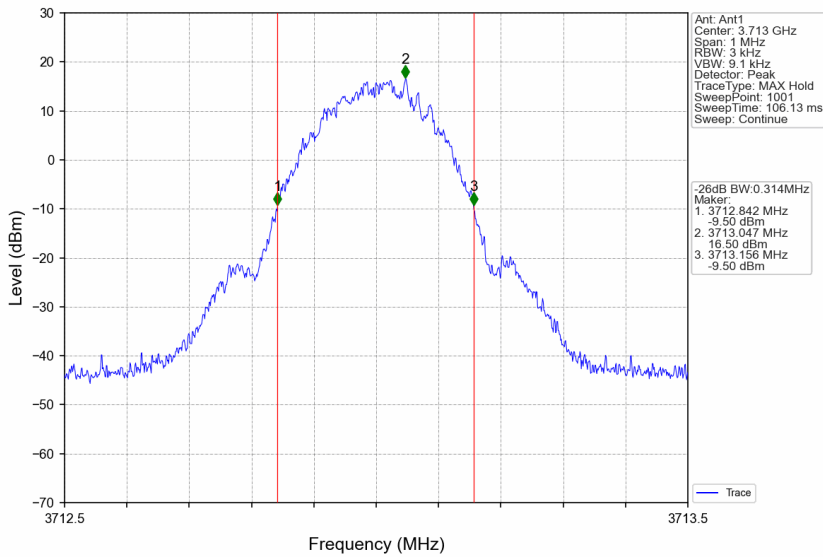
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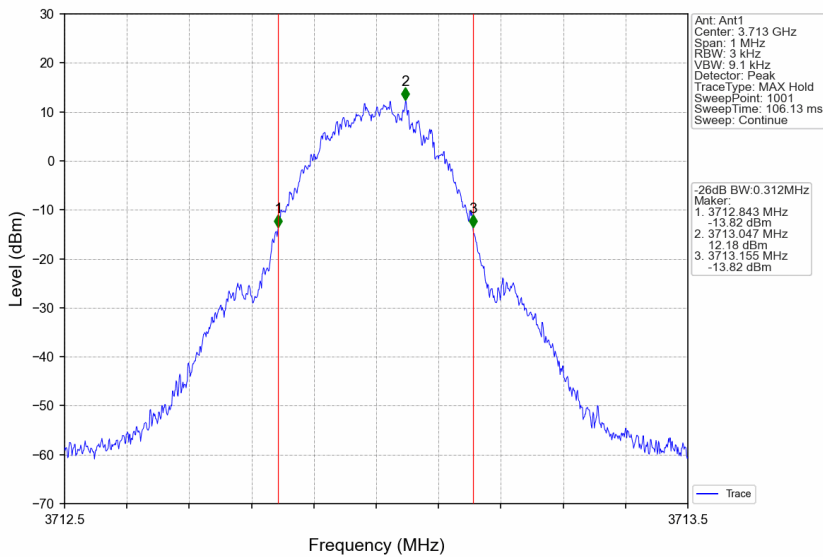
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3700MHz-3900MHz_3713MHz_GMSK_SISO_Ant1_NTNV_AGC+3



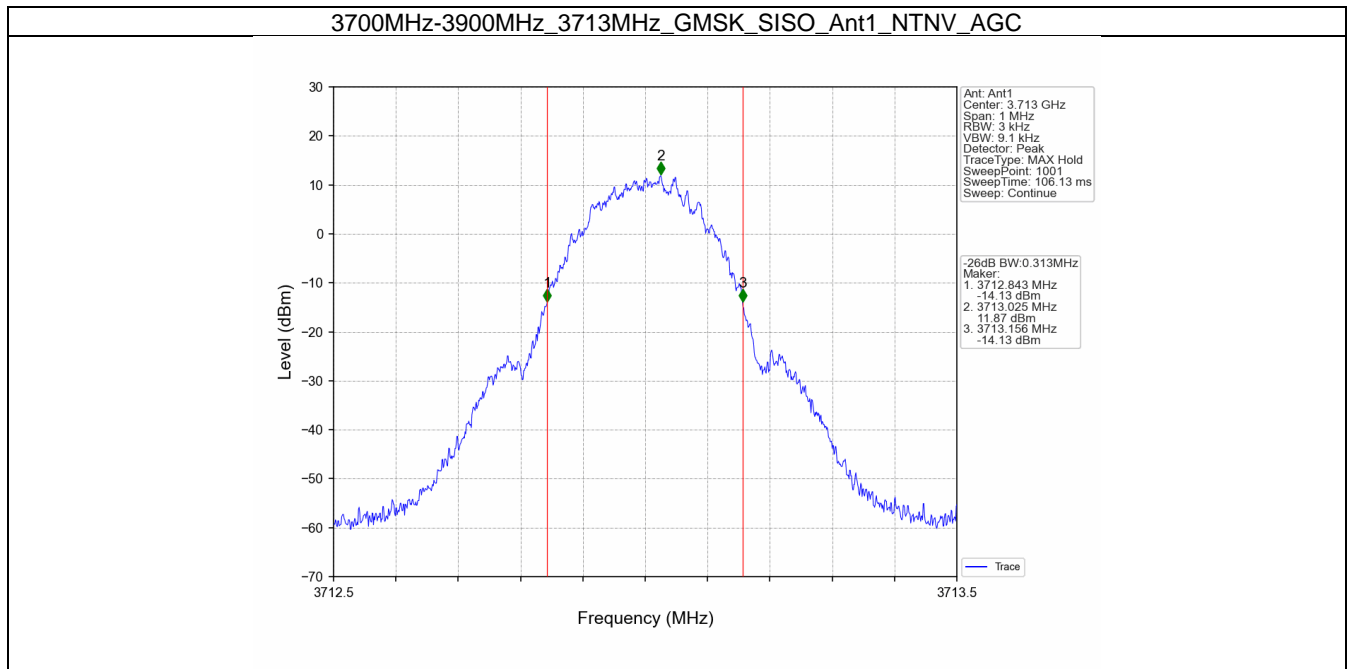
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4. Input/output power and amplifier/booster gain

4.1 3700MHz-3900MHz_EIRP

4.1.1 Test Result



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3700MHz-3900MHz / NTNV										
Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Output Power (dBm)				Total Output Power (dBm)	Gain (dB)
					Ant 1	Ant 2	Ant 3	Ant 4		
SISO mode										
3700MHz-3900MHz	3713	AWGN	Pre-AGC	0.5	19.05	--	--	--	19.05	25.98
			3dB Above AGC	3.5	19.02	--	--	--	19.02	/
	3713	GMSK	Pre-AGC	-2.5	15.88	--	--	--	15.88	25.77
			3dB Above AGC	0.5	19.07	--	--	--	19.07	/

3700MHz-3900MHz / NTNV											
Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Output Power (dBm)				Total Output Power (dBm)		Gain (dB)
					Ant 1	Ant 2	Ant 3	Ant 4	2X2 MIMO	4X4 MIMO	
MIMO mode											
3700MHz-3900MHz	3713	AWGN	Pre-AGC	0.5	19.05	19.04	19.02	19.02	22.05	25.05	/
			3dB Above AGC	3.5	19.02	18.99	19.01	18.99	22.02	25.02	/
	3713	GMSK	Pre-AGC	-2.5	15.88	15.85	15.86	15.88	18.88	21.88	/
			3dB Above AGC	0.5	19.07	19.05	19.03	19.06	22.07	25.07	/

Remark:

- 1.The EUT supports SISO working mode. Each antenna can be used as SISO working port. We only present the worst result, the test data of ant 1 port.
- 2.This EUT supports 2*2 and 4*4MIMO, For MIMO mode the output signals are considered completely uncorrelated, so the antenna gain is 3dBi.

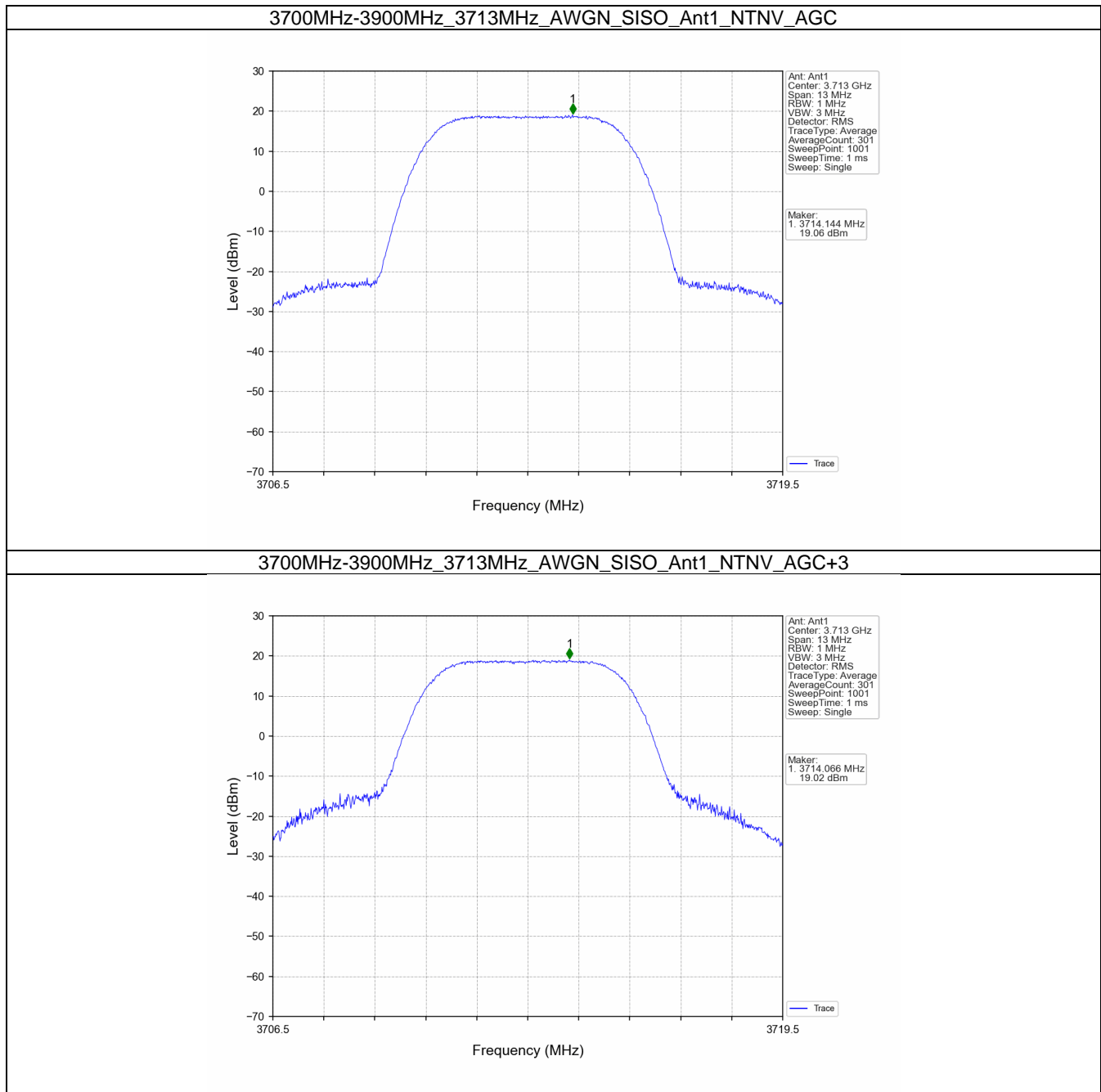


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4.1.2 Test Graph



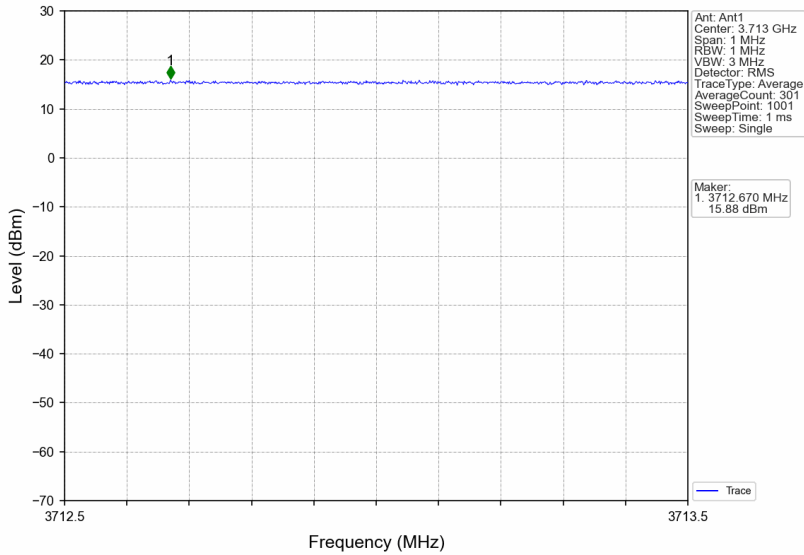
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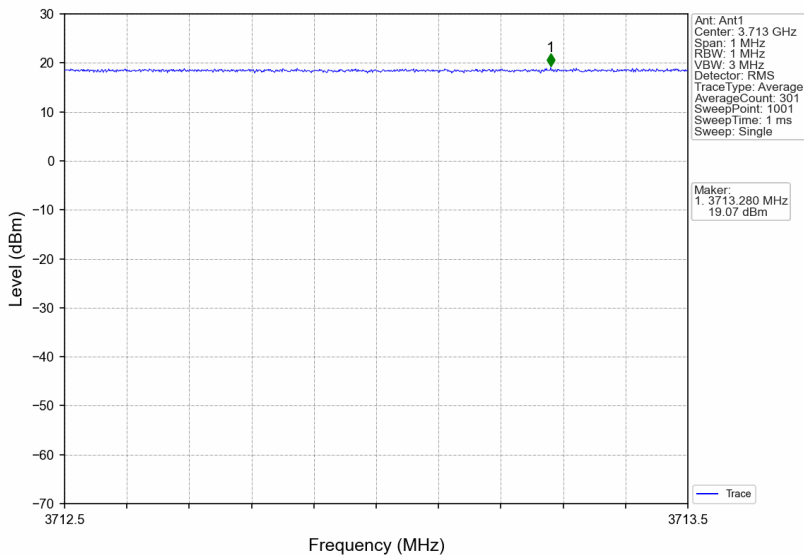
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3700MHz-3900MHz_3713MHz_GMSK_SISO_Ant1_NTNV_AGC



3700MHz-3900MHz_3713MHz_GMSK_SISO_Ant1_NTNV_AGC+3



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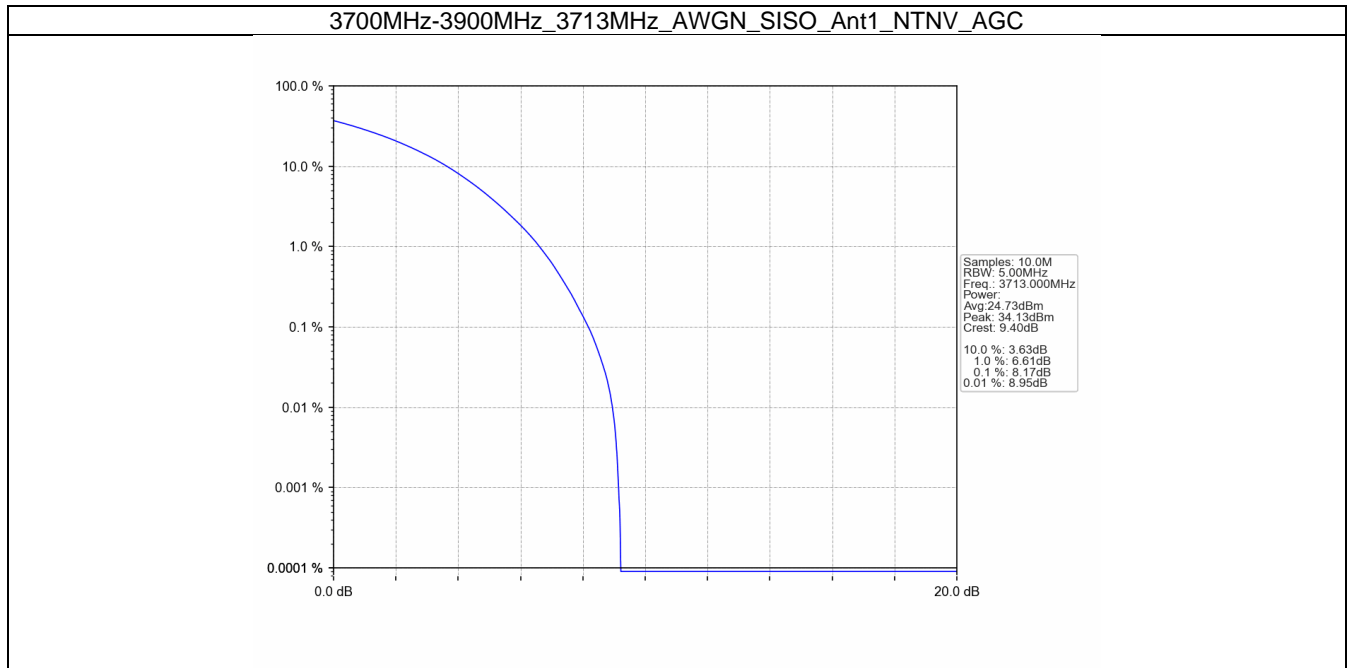
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4.2 3700MHz-3900MHz_PAPR

4.2.1 Test Result

3700MHz-3900MHz / NTV							
Type	Signal		TX Type	ANT	PAPR (dB)		Verdict
	Level (dBm)	Frequency (MHz)			Result	Limit	
AWGN	0.5	3713	SISO	1	8.17	<=13	Pass
	3.5	3713	SISO	1	8.11	<=13	Pass
GMSK	-2.5	3713	SISO	1	0.35	<=13	Pass
	0.5	3713	SISO	1	0.50	<=13	Pass

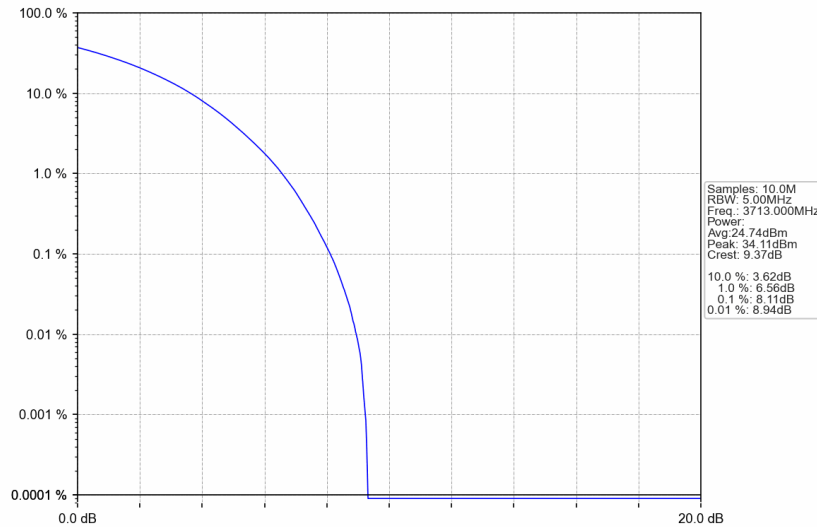
4.2.2 Test Graph



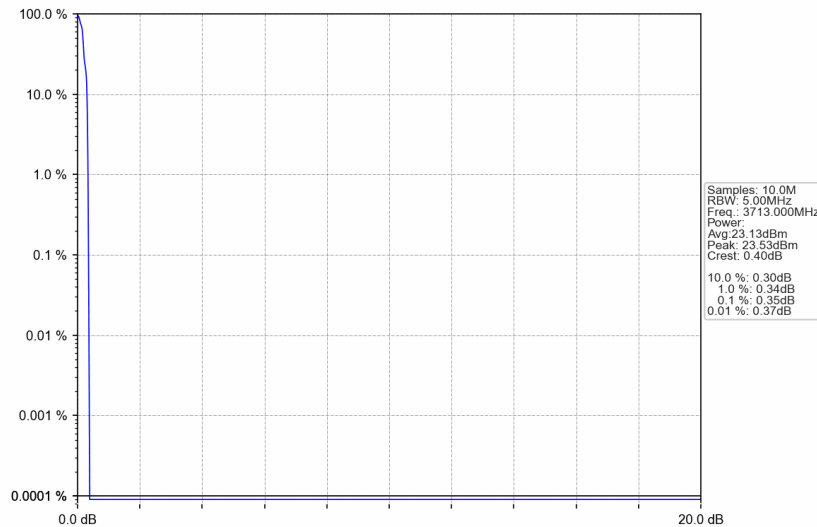
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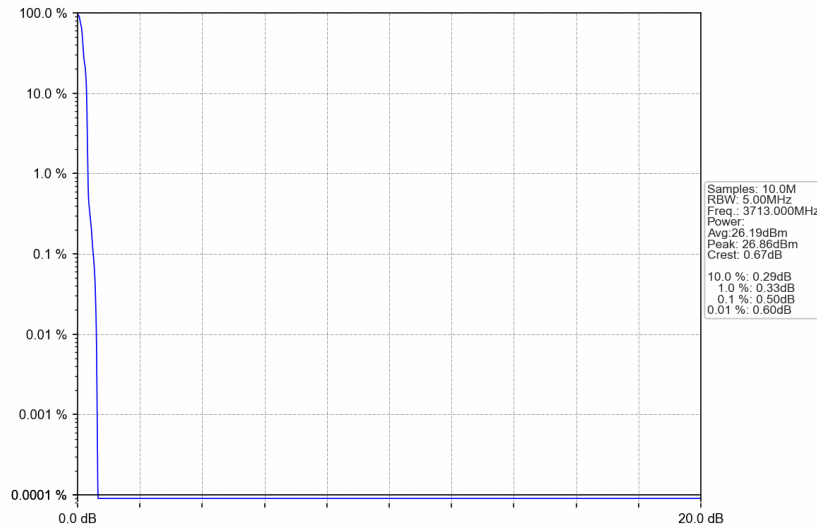


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5. Out-of-band/out-of-block (including intermodulation) emissions

5.1. Test Result

3700MHz-3900MHz / NTNv									
Input	Type	Signal		Channel	TX Type	ANT	OOB (dBm)		Verdict
		Level (dBm)	Frequency (MHz)				Result	Limit	
Two	AWGN	0.5	3702.5	LCH	SISO	1	-45.46	Refer To Test Graph	Pass
		3.5	3702.5	LCH	SISO	1	-33.16	Refer To Test Graph	Pass
One	AWGN	0.5	3702.5	LCH	SISO	1	-29.42	Refer To Test Graph	Pass
		3.5	3702.5	LCH	SISO	1	-27.54	Refer To Test Graph	Pass
Two	AWGN	0.5	3897.5	HCH	SISO	1	-63.98	Refer To Test Graph	Pass
		3.5	3897.5	HCH	SISO	1	-65.49	Refer To Test Graph	Pass
One	AWGN	0.5	3897.5	HCH	SISO	1	-65.33	Refer To Test Graph	Pass
		3.5	3897.5	HCH	SISO	1	-65.39	Refer To Test Graph	Pass
Two	GMSK	-2.5	3700.1	LCH	SISO	1	-32.23	Refer To Test Graph	Pass
		0.5	3700.1	LCH	SISO	1	-29.10	Refer To Test Graph	Pass
One	GMSK	-2.5	3700.1	LCH	SISO	1	-31.88	Refer To Test Graph	Pass
		0.5	3700.1	LCH	SISO	1	-28.67	Refer To Test Graph	Pass
Two	GMSK	-2.5	3899.9	HCH	SISO	1	-65.11	Refer To Test Graph	Pass
		0.5	3899.9	HCH	SISO	1	-65.19	Refer To Test Graph	Pass
One	GMSK	-2.5	3899.9	HCH	SISO	1	-65.11	Refer To Test Graph	Pass
		0.5	3899.9	HCH	SISO	1	-64.97	Refer To Test Graph	Pass

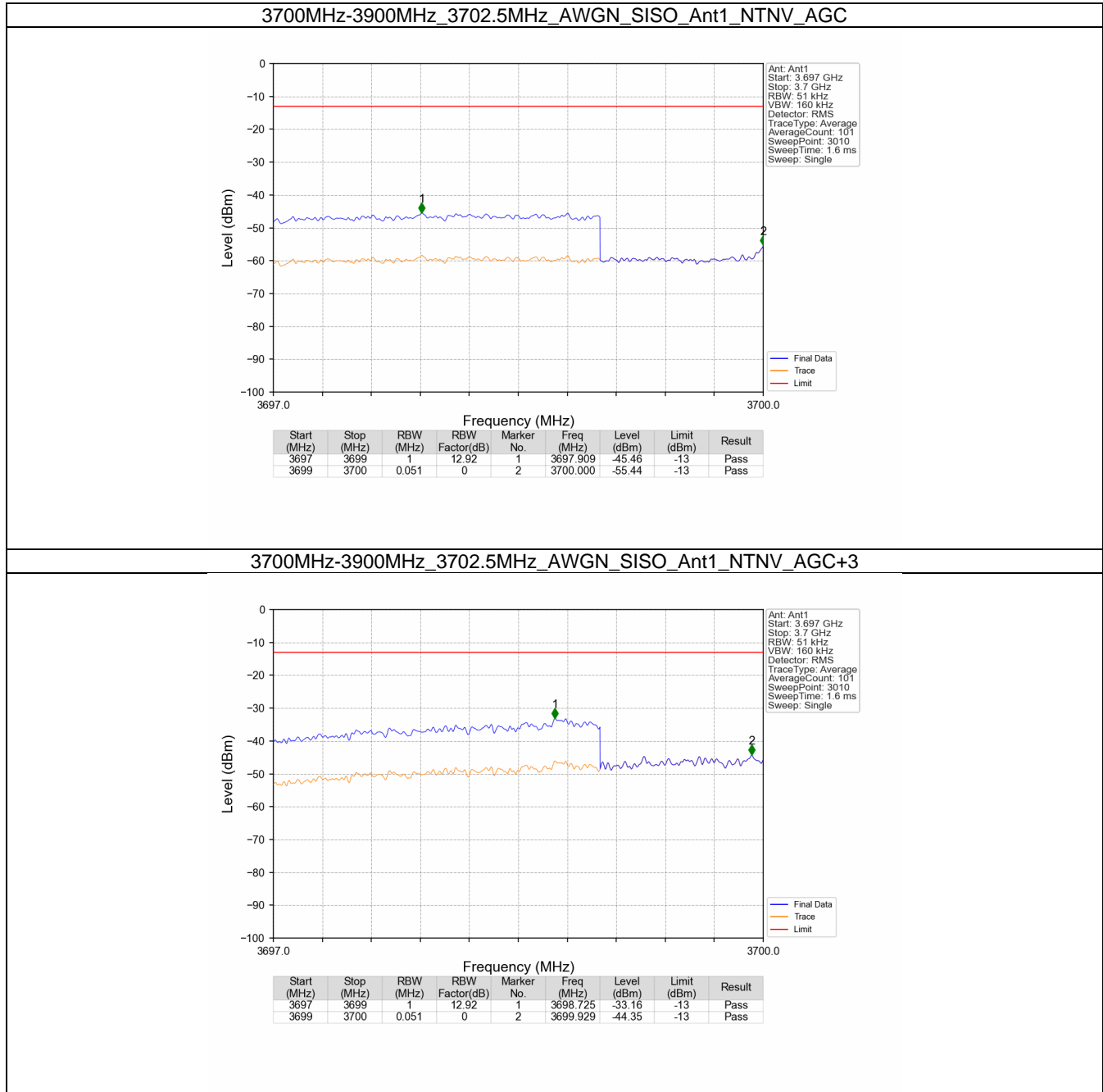


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5.1.2 Test Graph



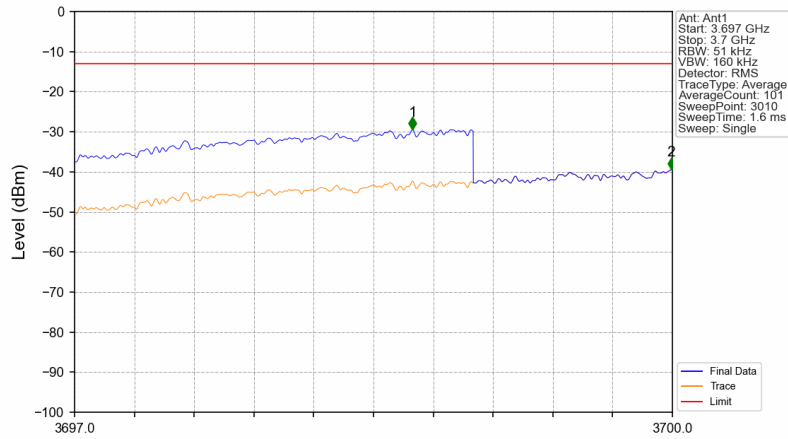
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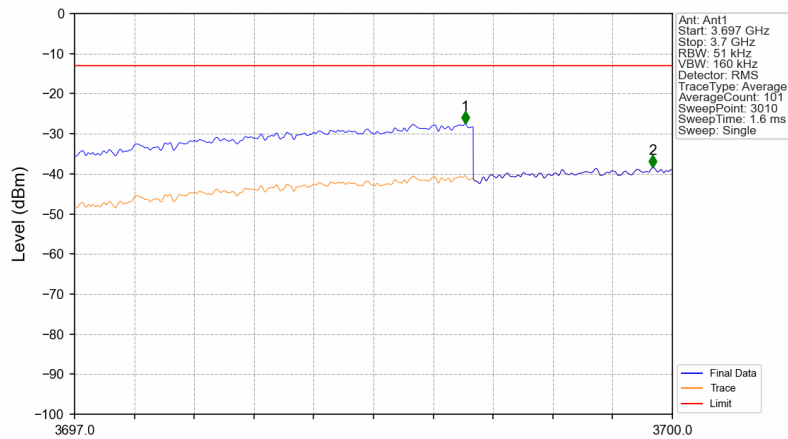
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3700MHz-3900MHz_3702.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3697	3699	1	12.92	1	3698.696	-29.42	-13	Pass
3699	3700	0.051	0	2	3699.995	-39.43	-13	Pass

3700MHz-3900MHz_3702.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3697	3699	1	12.92	1	3698.960	-27.54	-13	Pass
3699	3700	0.051	0	2	3699.902	-38.45	-13	Pass

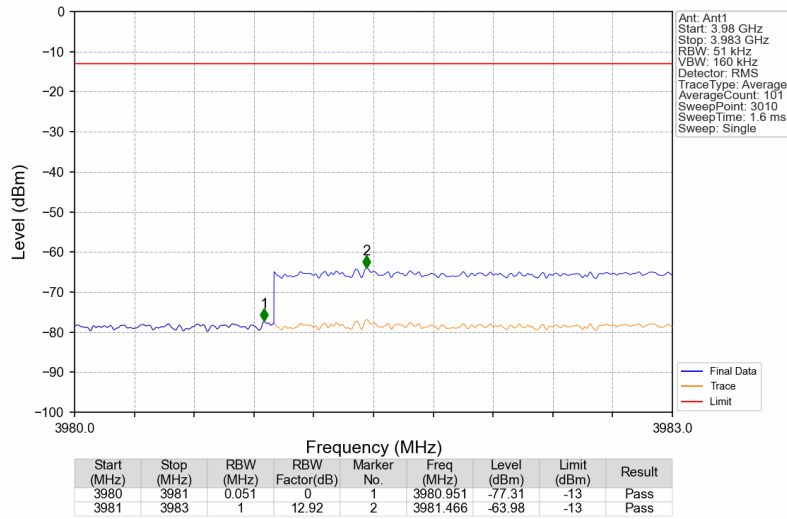


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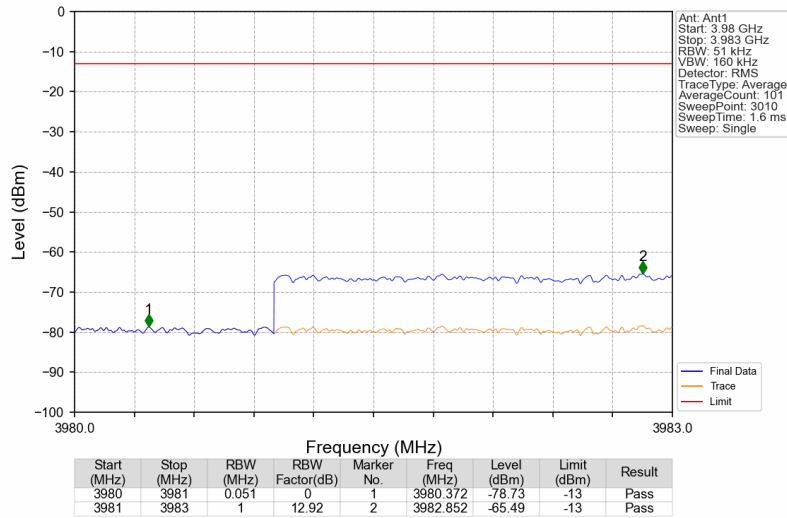
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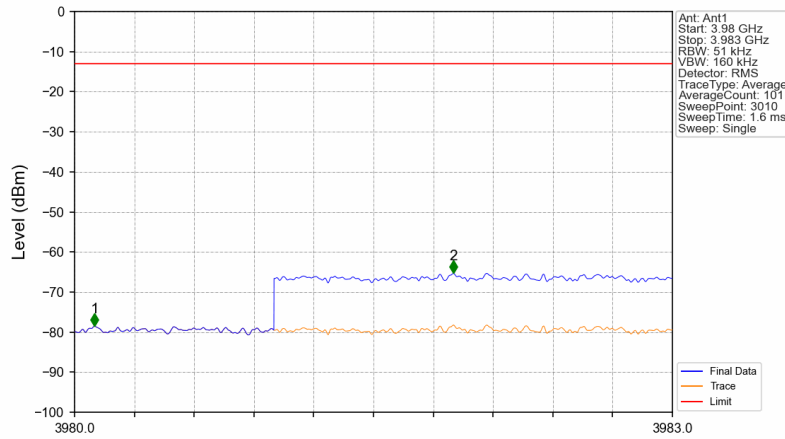


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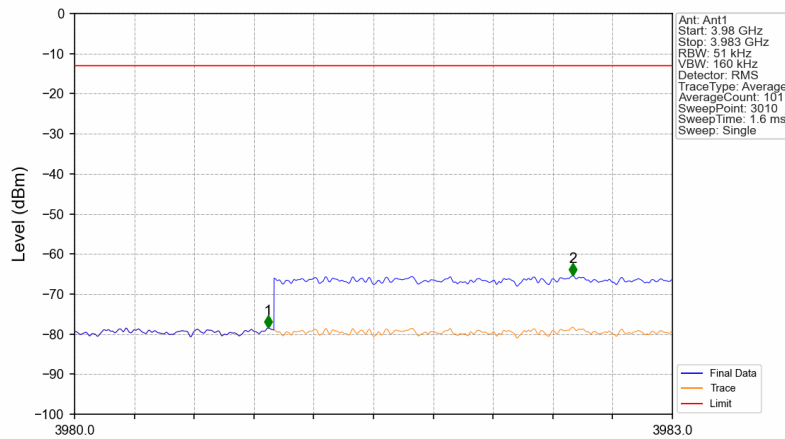
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3700MHz-3900MHz_3897.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3980	3981	0.051	0	1	3980.101	-78.50	-13	Pass
3981	3983	1	12.92	2	3981.901	-65.33	-13	Pass

3700MHz-3900MHz_3897.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3980	3981	0.051	0	1	3980.971	-78.46	-13	Pass
3981	3983	1	12.92	2	3982.500	-65.39	-13	Pass

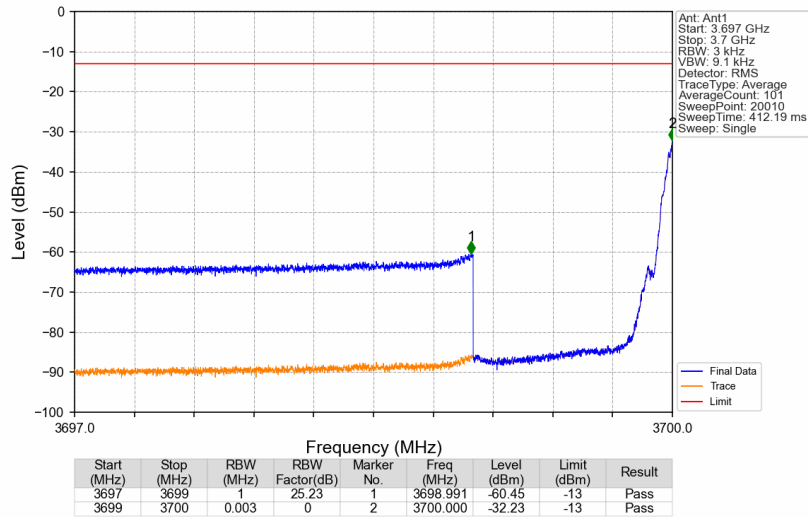


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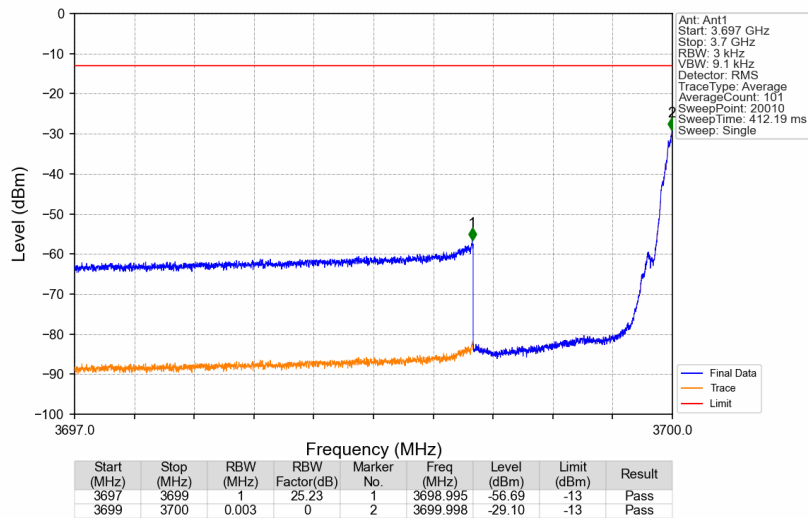
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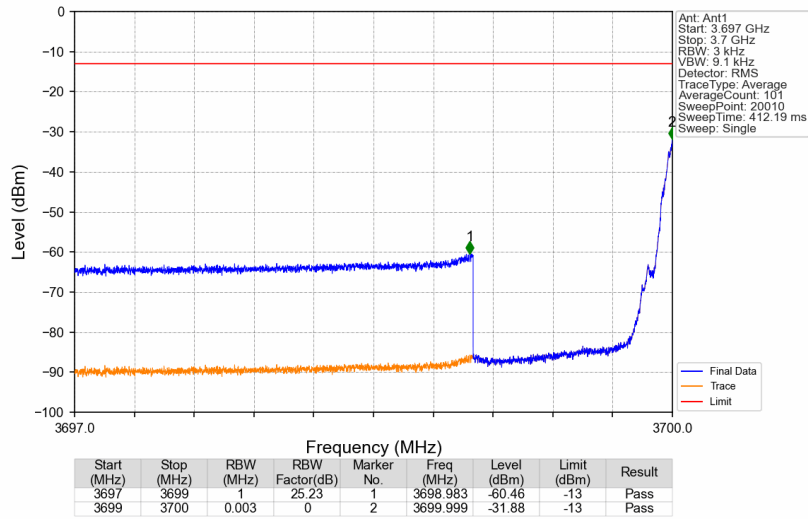
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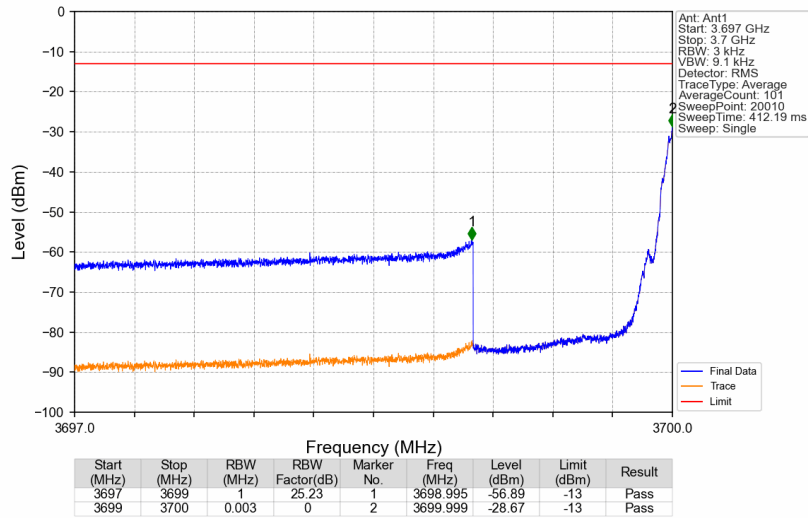
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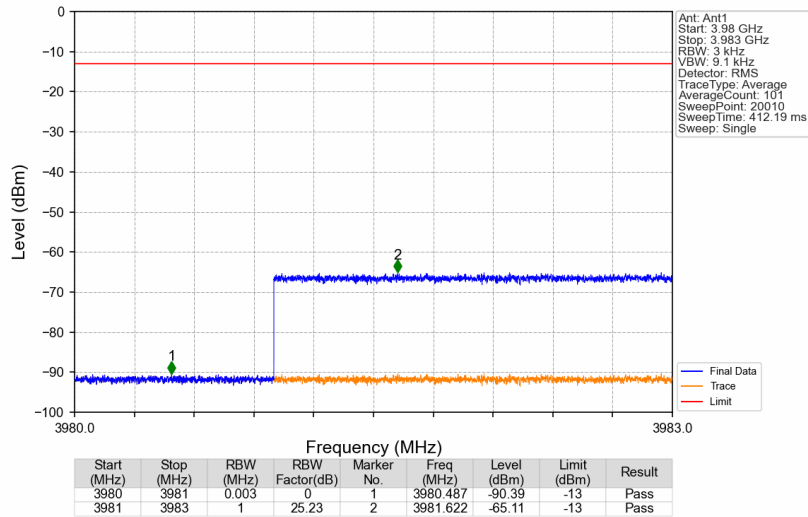


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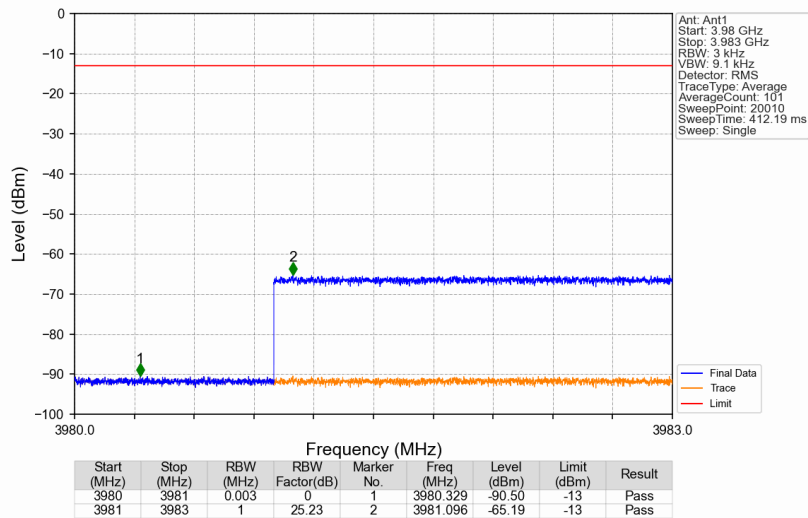
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3700MHz-3900MHz_3899.9MHz_GMSK_SISO_Ant1_NTNV_AGC



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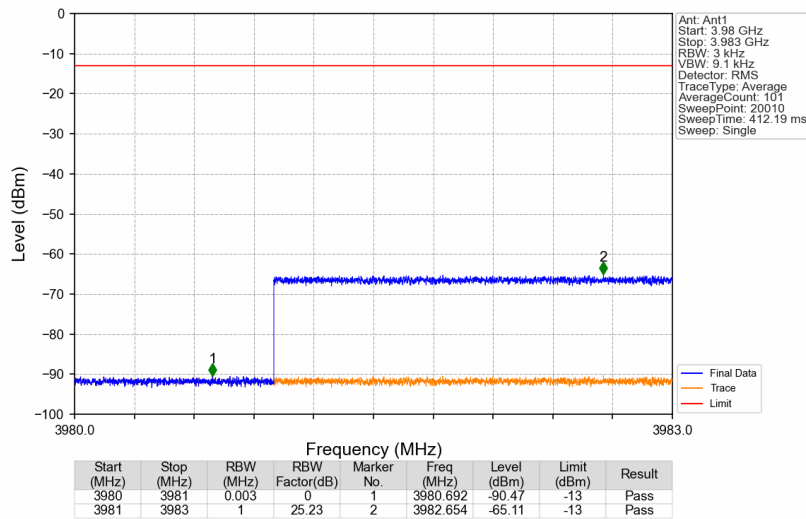


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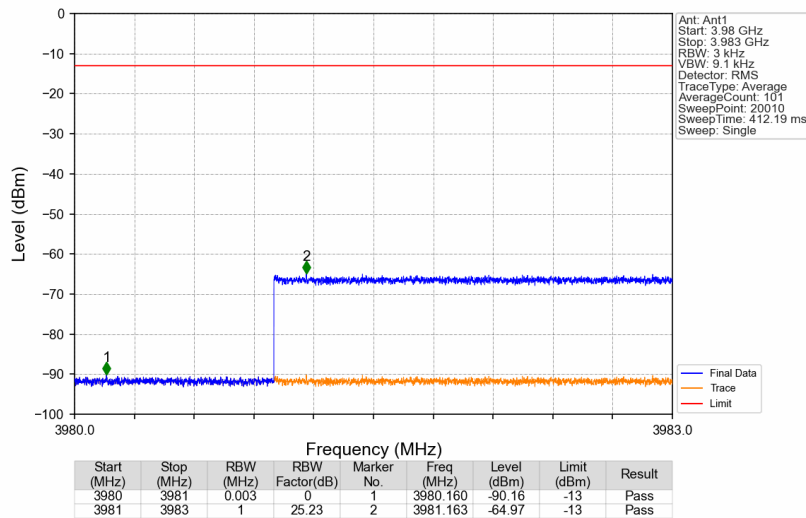
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3700MHz-3900MHz_3899.9MHz_GMSK_SISO_Ant1_NTNV_AGC



3700MHz-3900MHz_3899.9MHz_GMSK_SISO_Ant1_NTNV_AGC+3



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6. Spurious emissions

6.1. Test Result

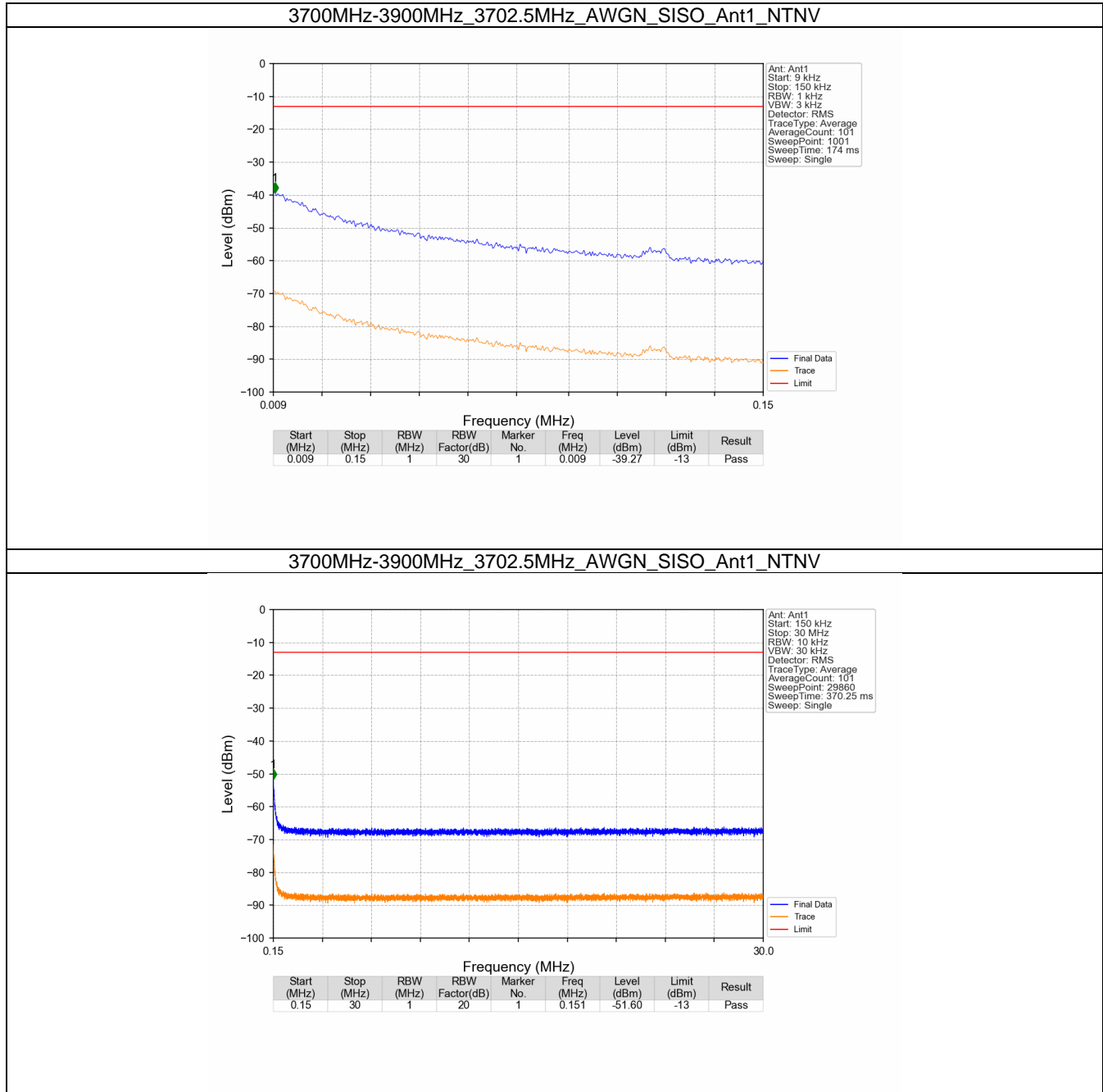
3700MHz-3900MHz / NTV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
AWGN	0.5	3702.5	LCH	SISO	1	Refer To Test Graph		Pass
		3800	MCH	SISO	1	Refer To Test Graph		Pass
		3897.5	HCH	SISO	1	Refer To Test Graph		Pass
GMSK	-2.5	3700.1	LCH	SISO	1	Refer To Test Graph		Pass
		3800	MCH	SISO	1	Refer To Test Graph		Pass
		3899.9	HCH	SISO	1	Refer To Test Graph		Pass



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6.1.1 Test Graph



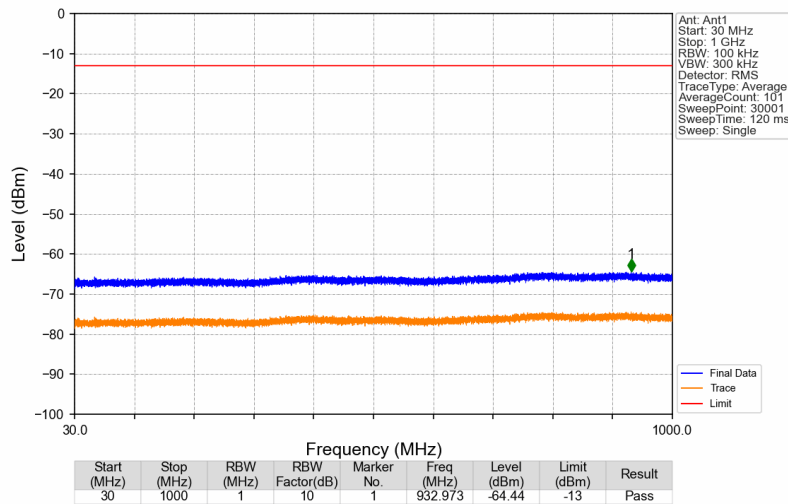
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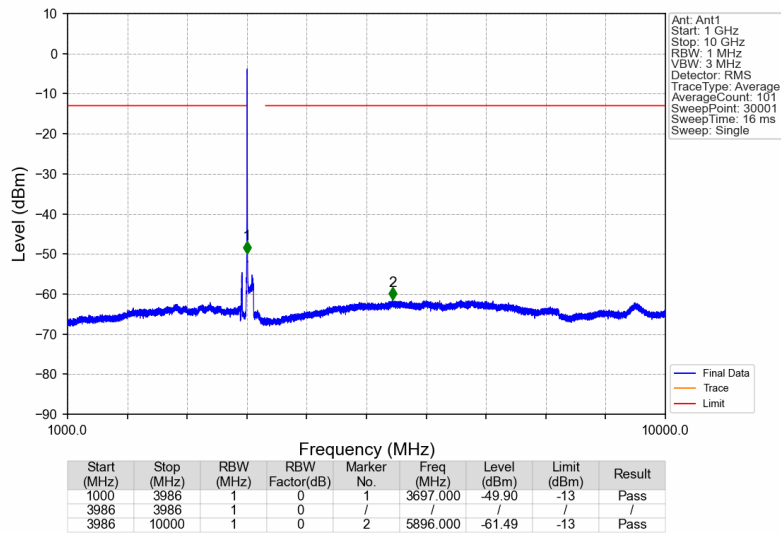
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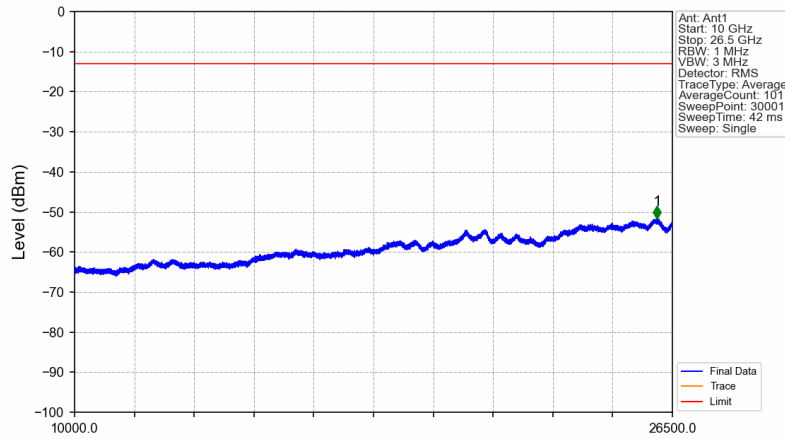


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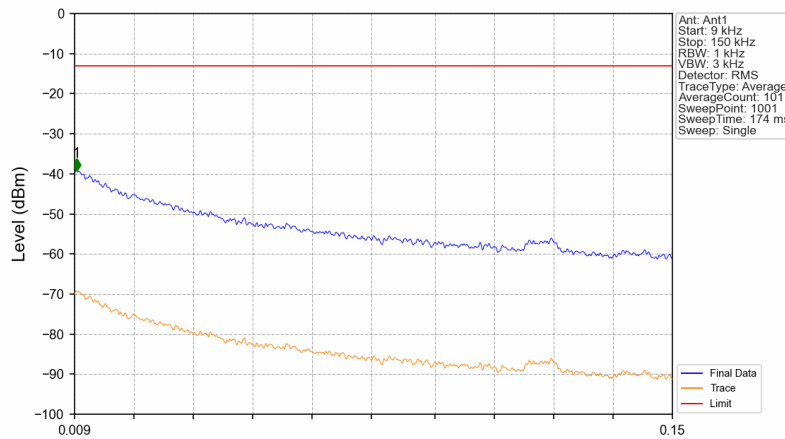
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3700MHz-3900MHz_3702.5MHz_AWGN_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	39800	1	0	1	26077.050	-51.68	-13	Pass

3700MHz-3900MHz_3800MHz_AWGN_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	1	30	1	0.009	-39.24	-13	Pass

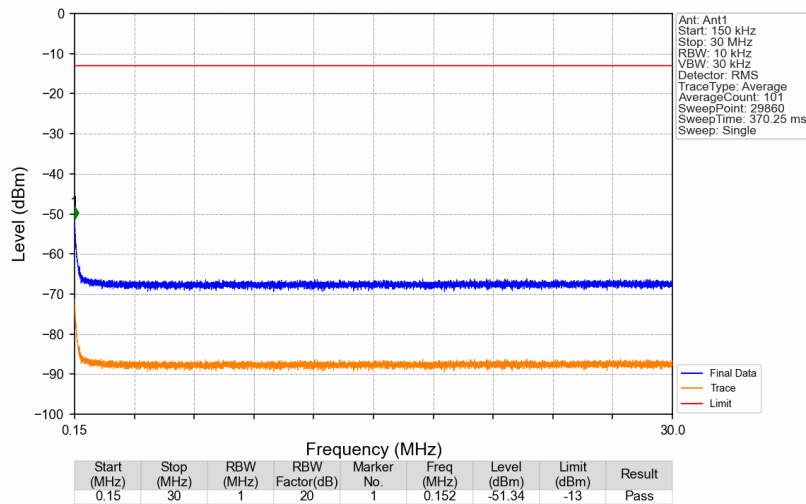


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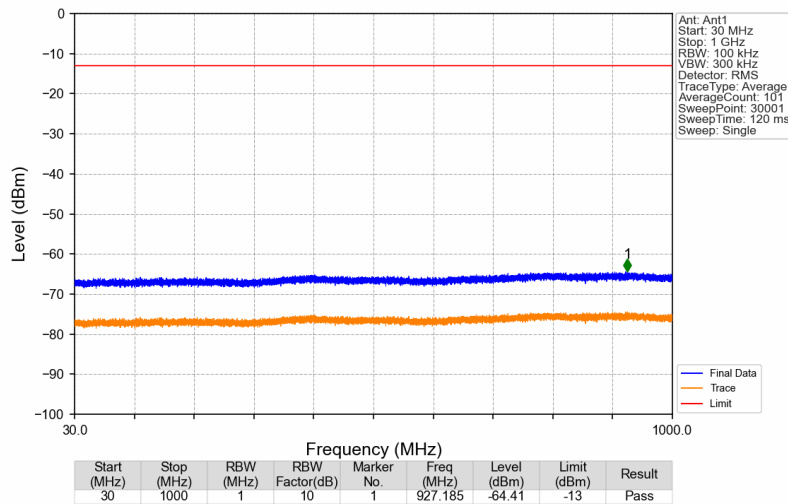
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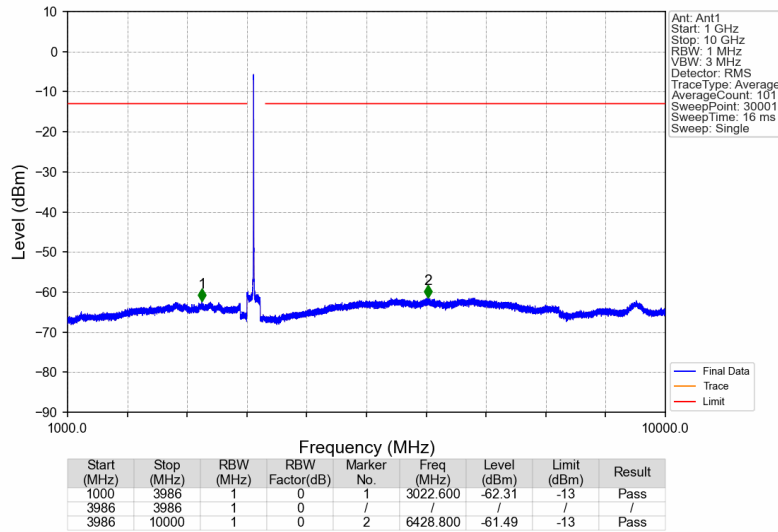
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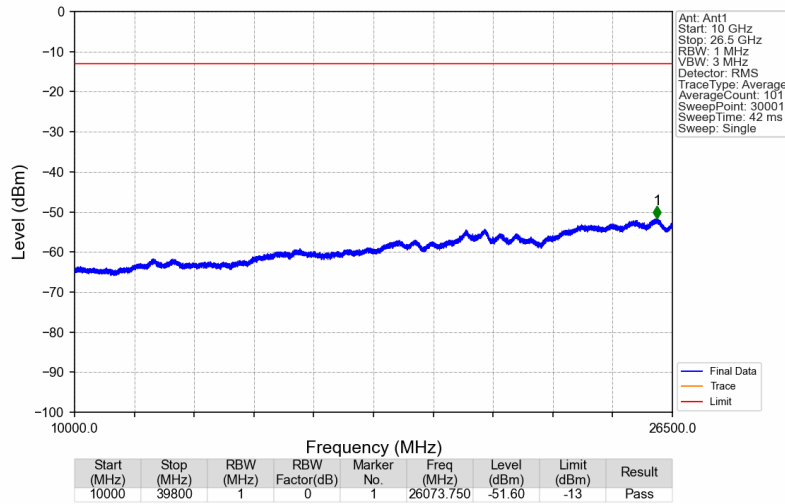
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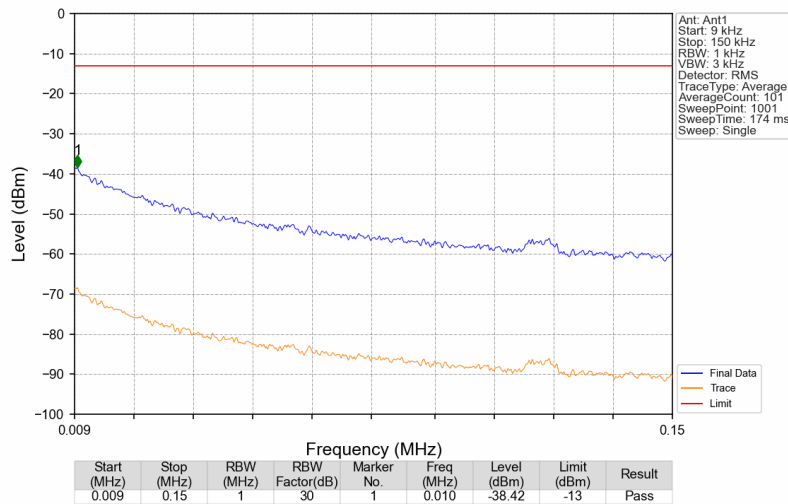


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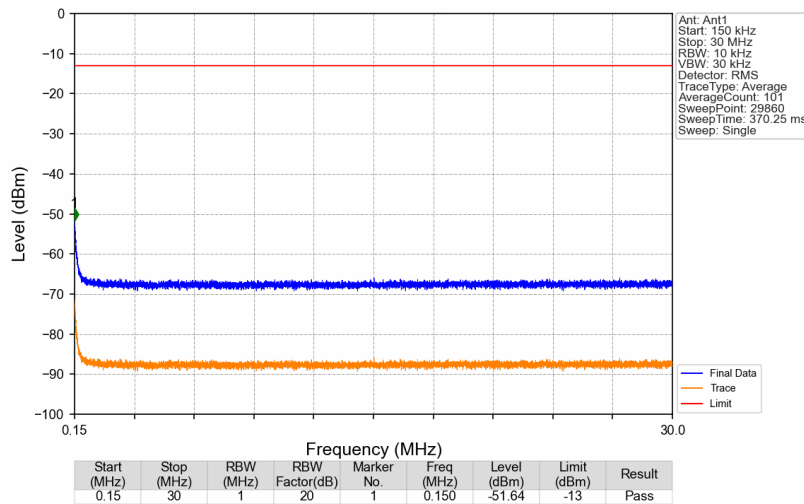
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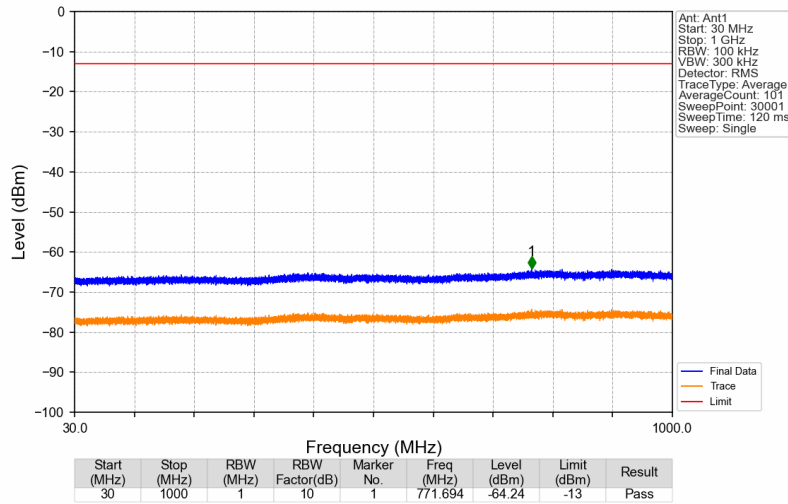


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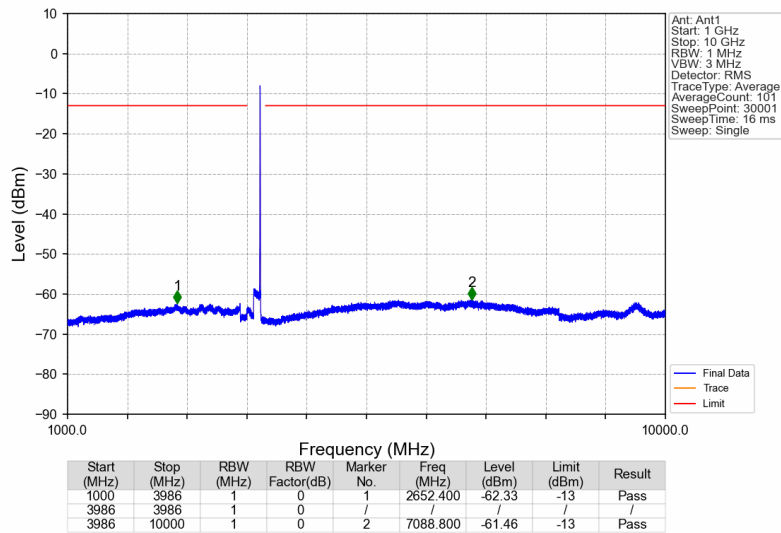
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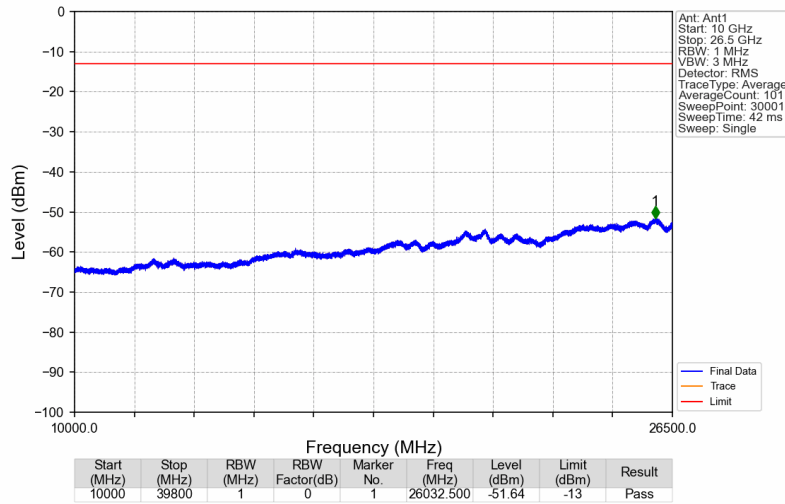


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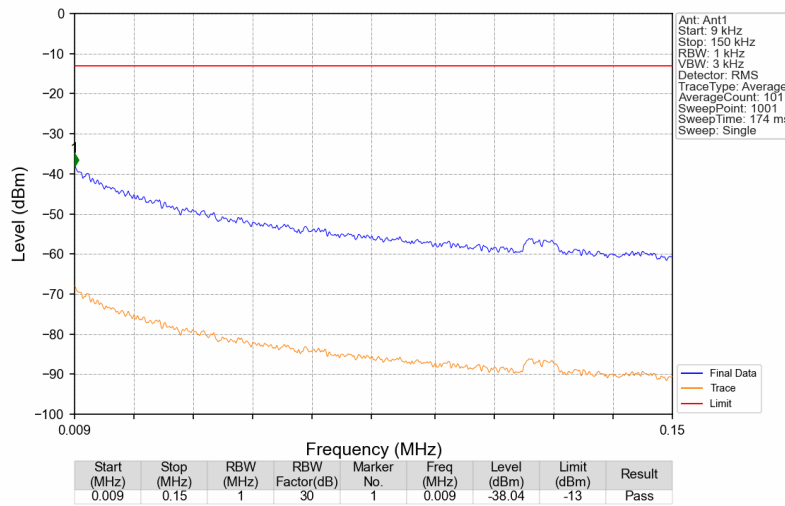
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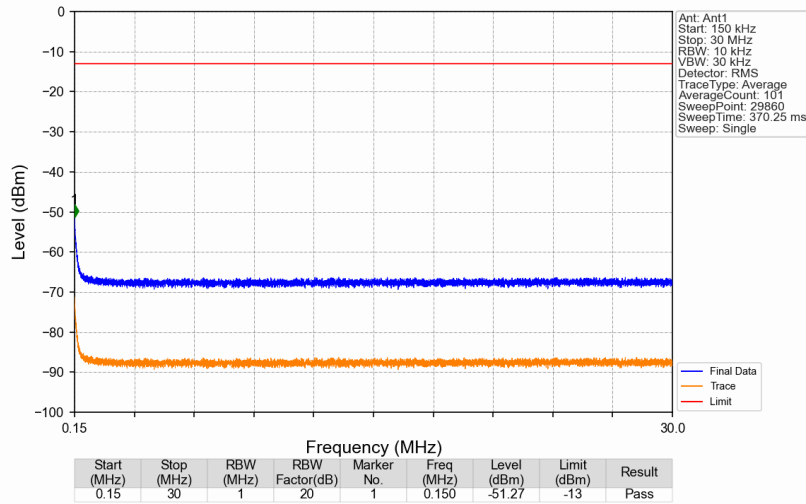


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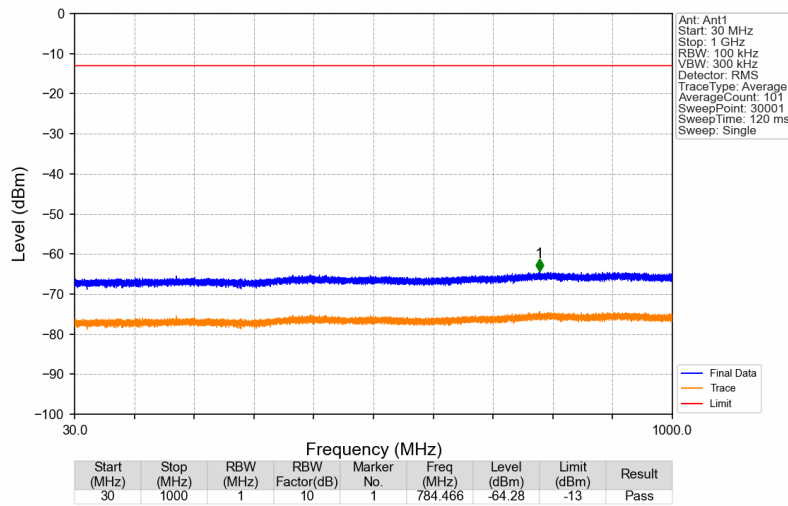
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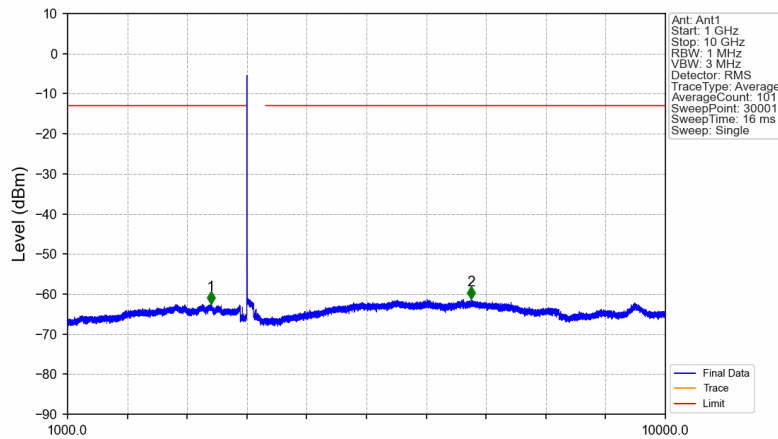
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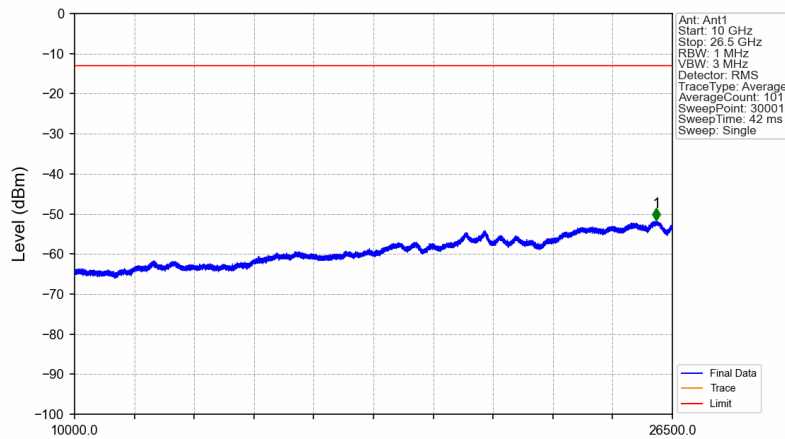
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3700MHz-3900MHz_3700.1MHz_GMSK_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	3986	1	0	1	3157.300	-62.53	-13	Pass
3986	3986	1	0	/	/	/	/	/
3986	10000	1	0	2	7078.300	-61.27	-13	Pass

3700MHz-3900MHz_3700.1MHz_GMSK_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	39800	1	0	1	26052.850	-51.67	-13	Pass

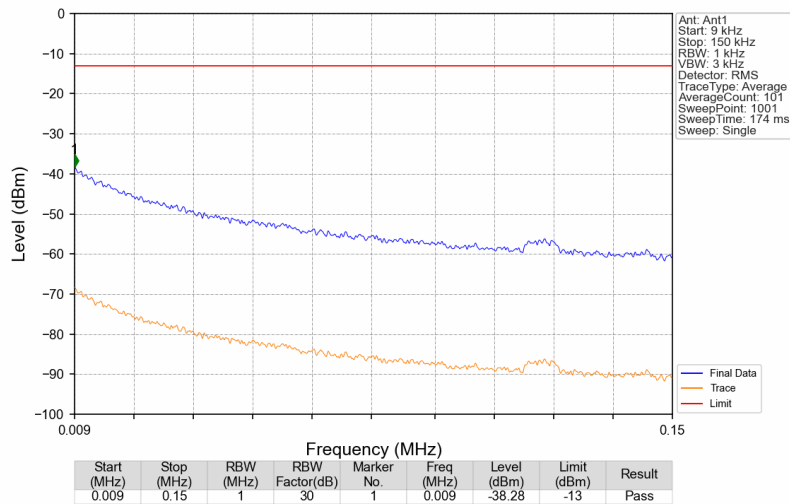


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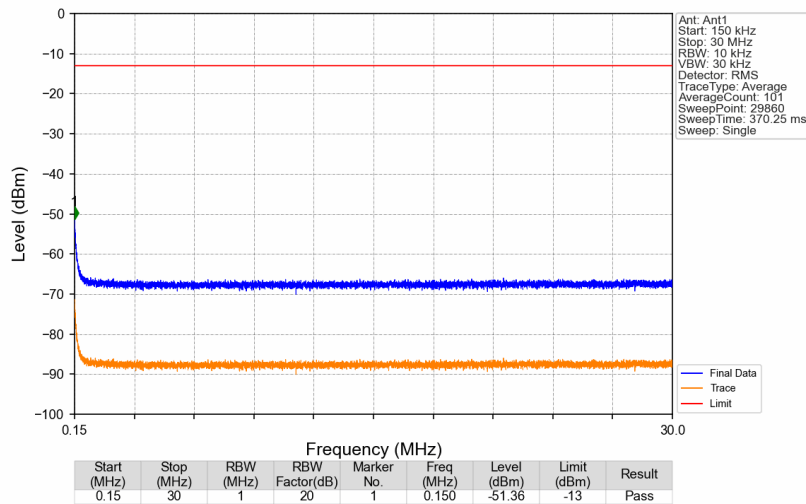
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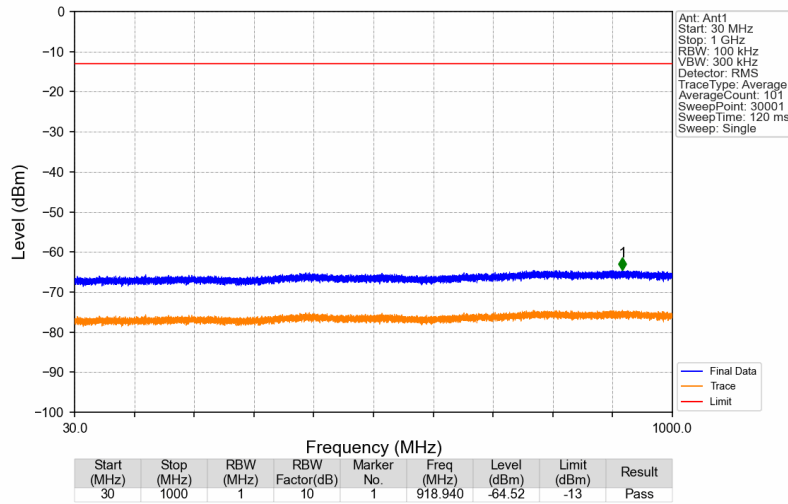
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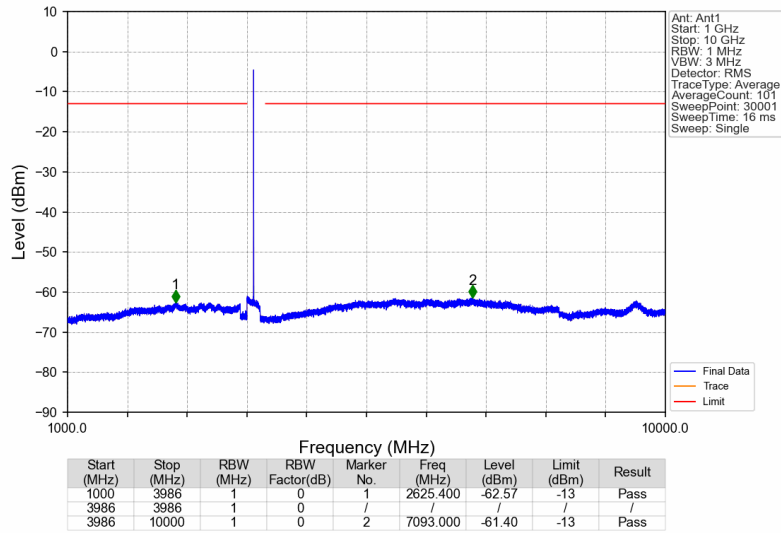
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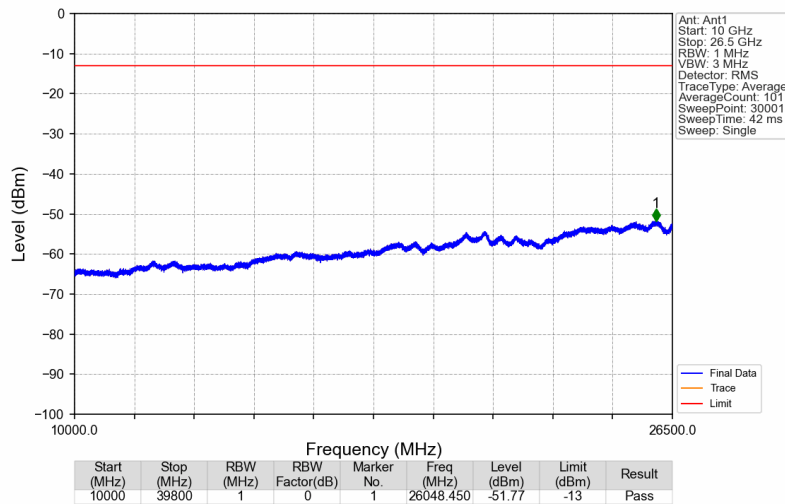


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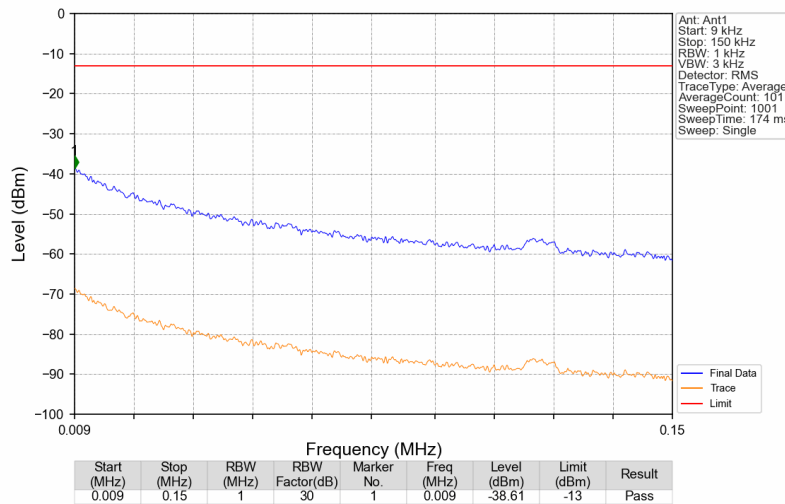
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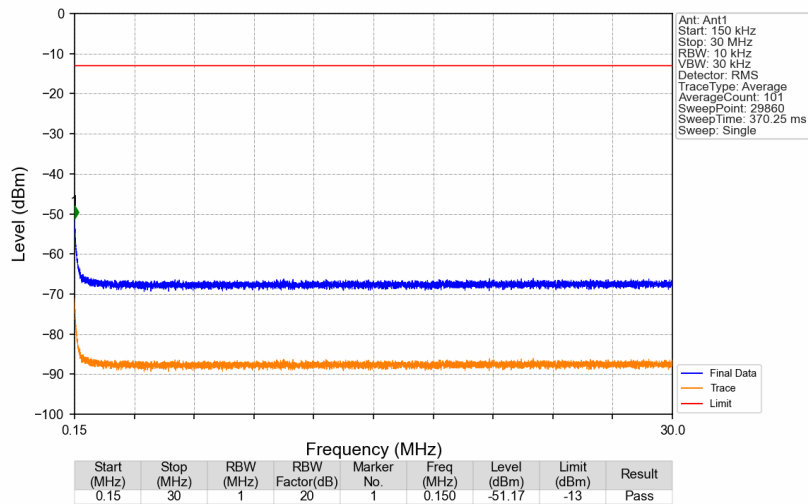


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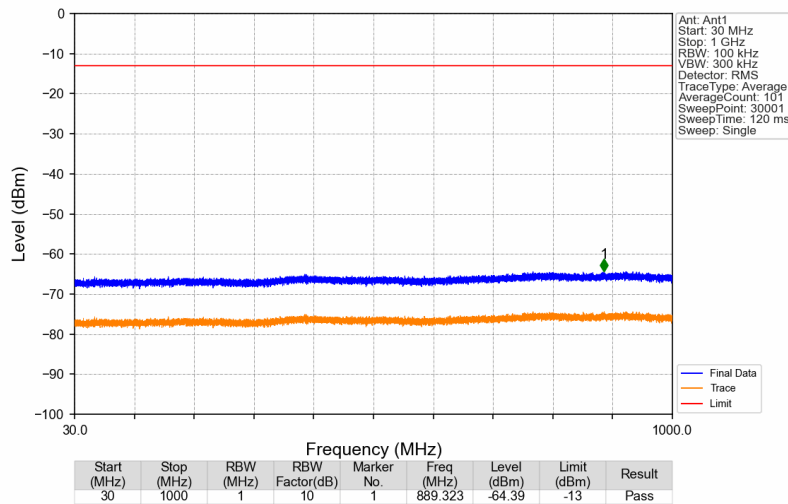
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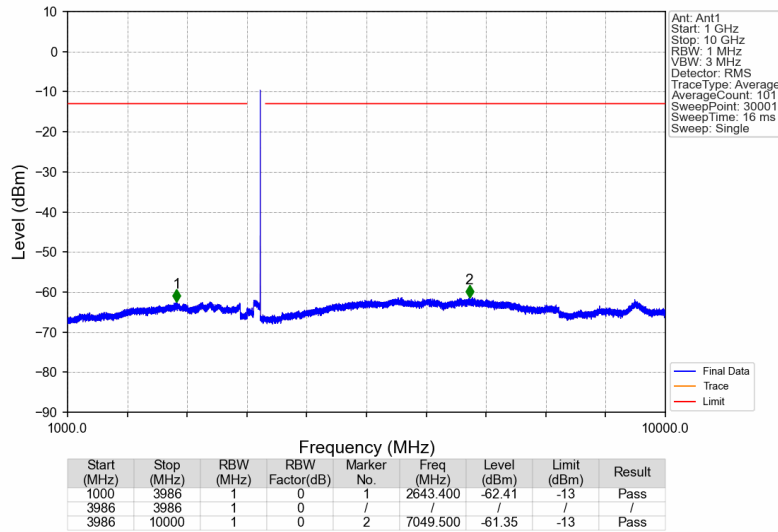
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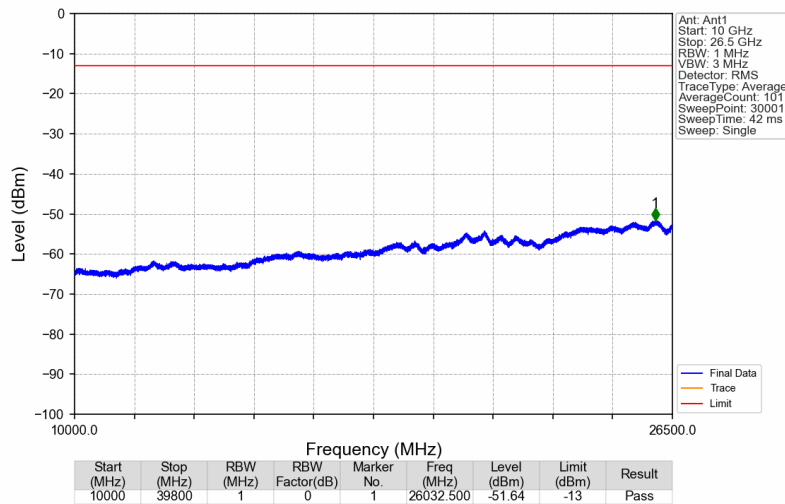
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7. Frequency stability measurements

7.1 3700MHz-3900MHz_Ant1

7.1.1 Test Result

3700MHz-3900MHz / NTNV							
Signal			Temp (°C)	Voltage (VDC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict
Type	Level (dBm)	Frequency (MHz)					
CW	0.5	3700.1	20	43.2	0.00	3700.10	Pass
				48	0.00	3700.10	Pass
				52.8	0.00	3700.10	Pass
			-10	48	0.00	3700.10	Pass
				0	-0.27	3700.10	Pass
				10	0.00	3700.10	Pass
			30	48	0.00	3700.10	Pass
				40	0.00	3700.10	Pass
				45	0.00	3700.10	Pass
		3800	20	43.2	0.00	3800.00	Pass
				48	0.00	3800.00	Pass
				52.8	0.00	3800.00	Pass
			-10	48	0.00	3800.00	Pass
				0	0.00	3800.00	Pass
				10	0.00	3800.00	Pass
			30	48	0.00	3800.00	Pass
				40	0.00	3800.00	Pass
				45	0.00	3800.00	Pass
		3899.9	20	43.2	0.00	3899.90	Pass
				48	0.00	3899.90	Pass
				52.8	0.00	3899.90	Pass
			-10	48	0.00	3899.90	Pass
				0	0.00	3899.90	Pass
				10	0.00	3899.90	Pass
30	48		0.00	3899.90	Pass		
	40		0.00	3899.90	Pass		
	45		0.00	3899.90	Pass		



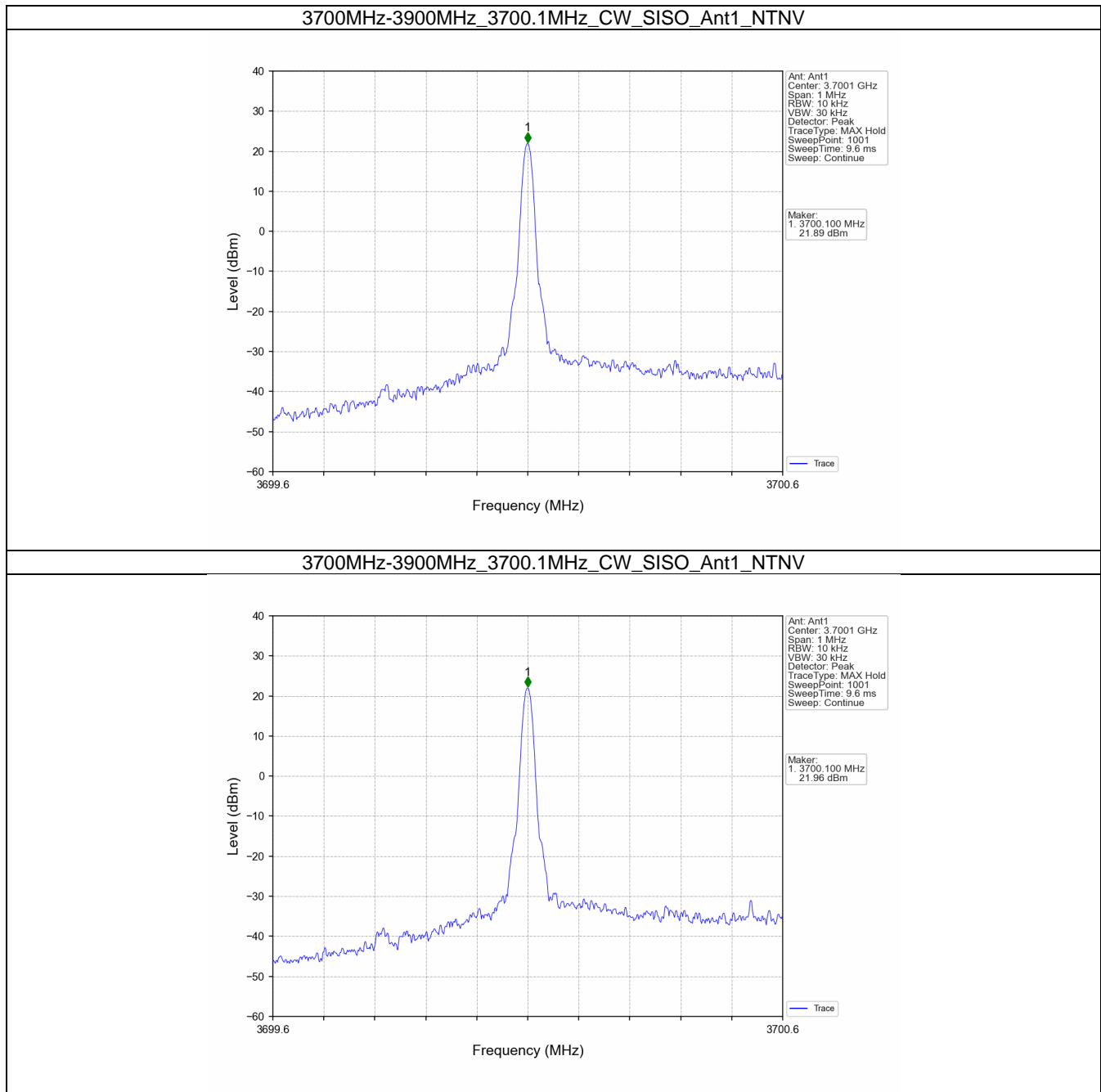
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7.1.2 Test Graph



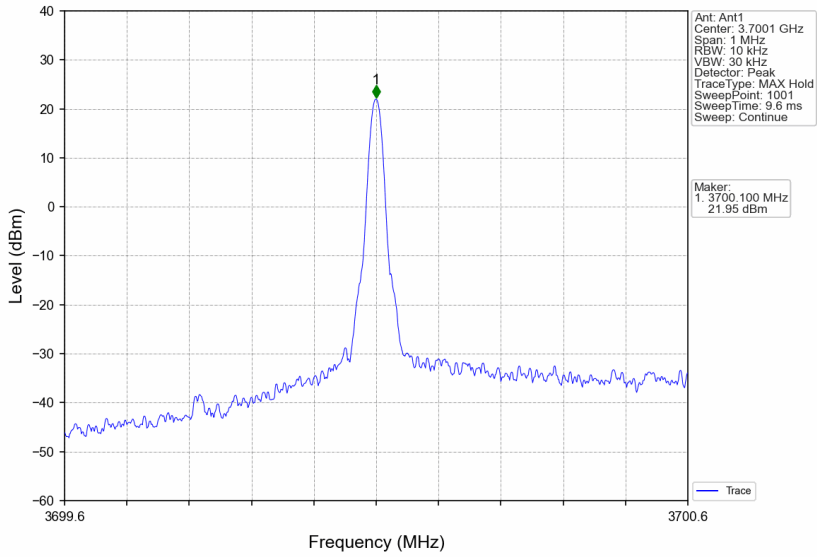
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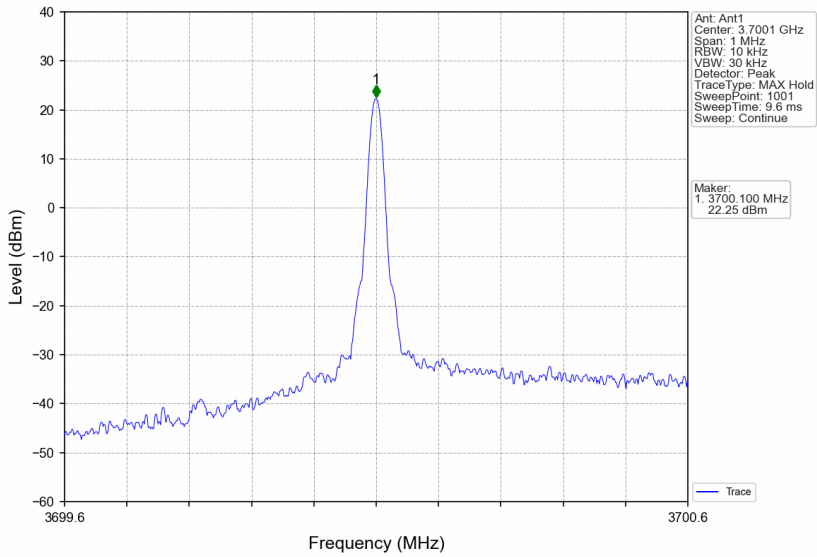
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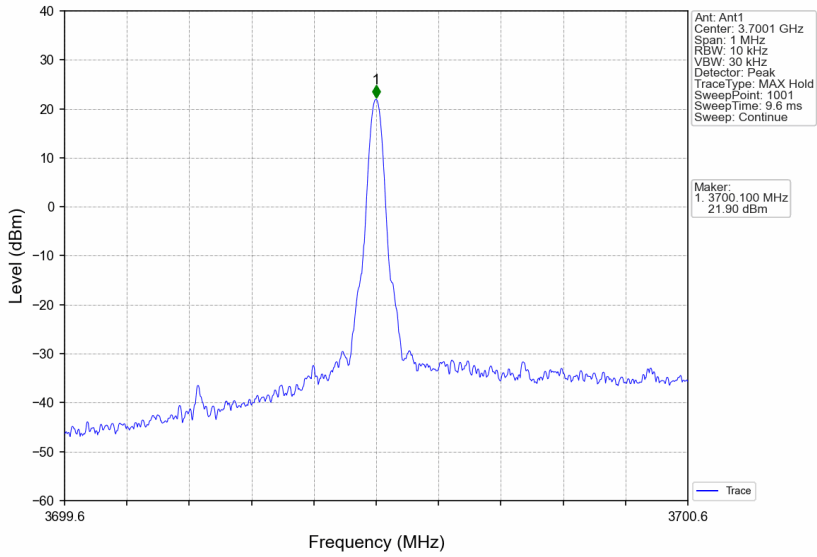
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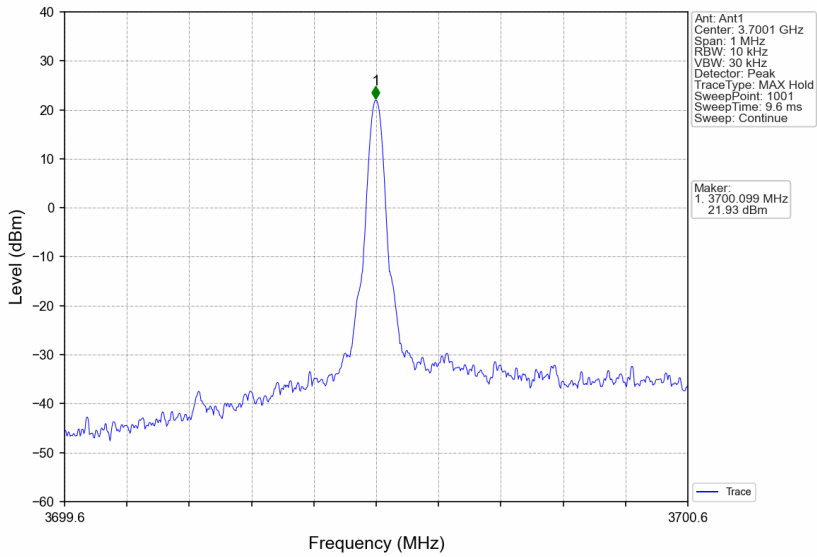
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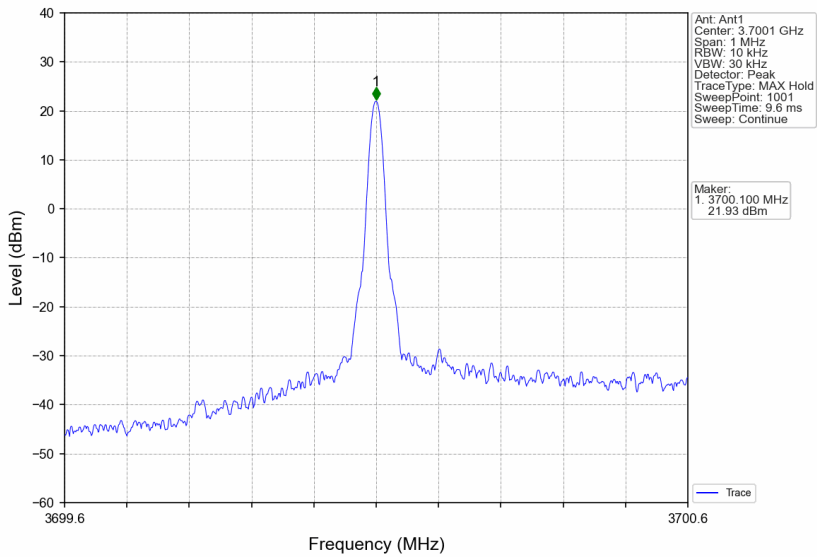


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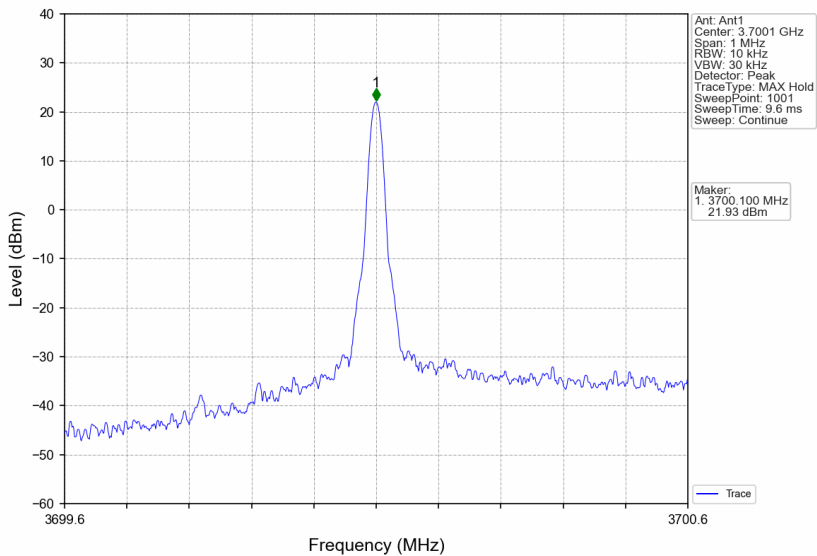
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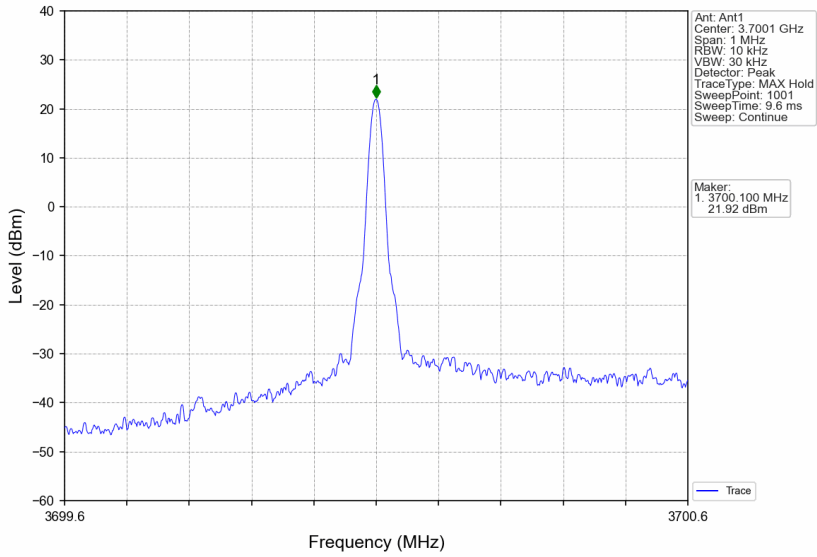
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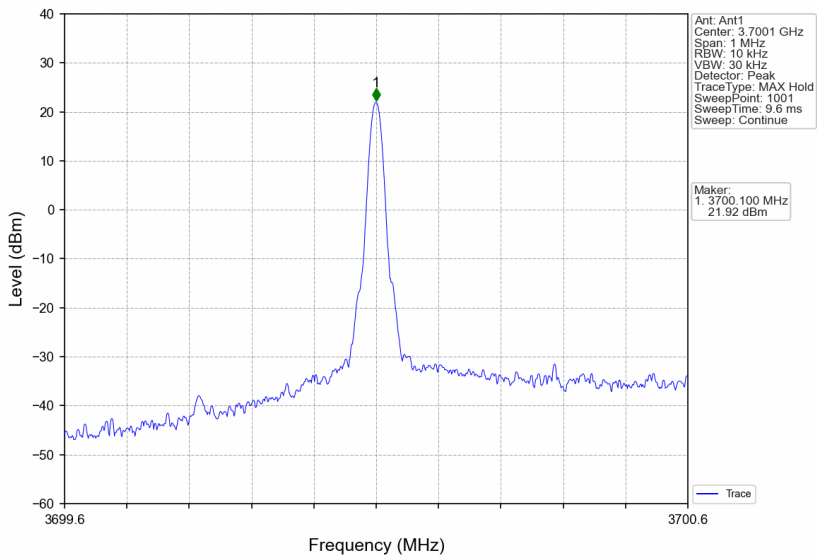
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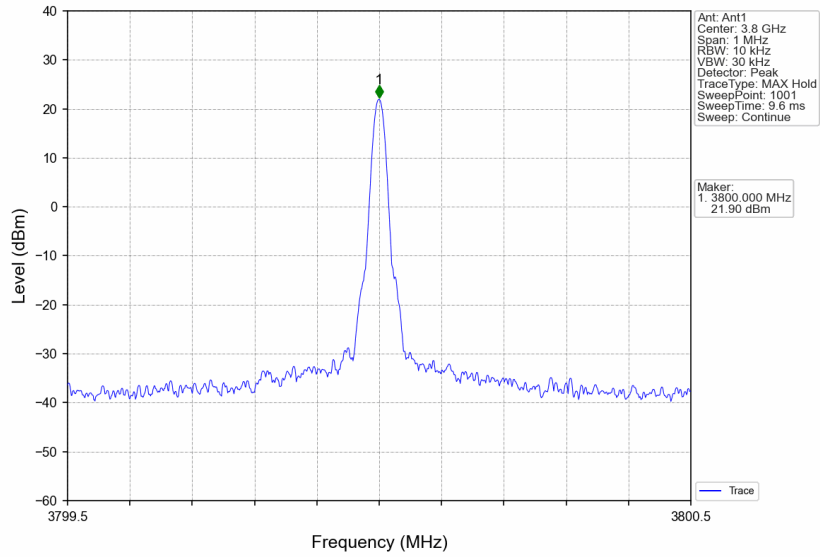
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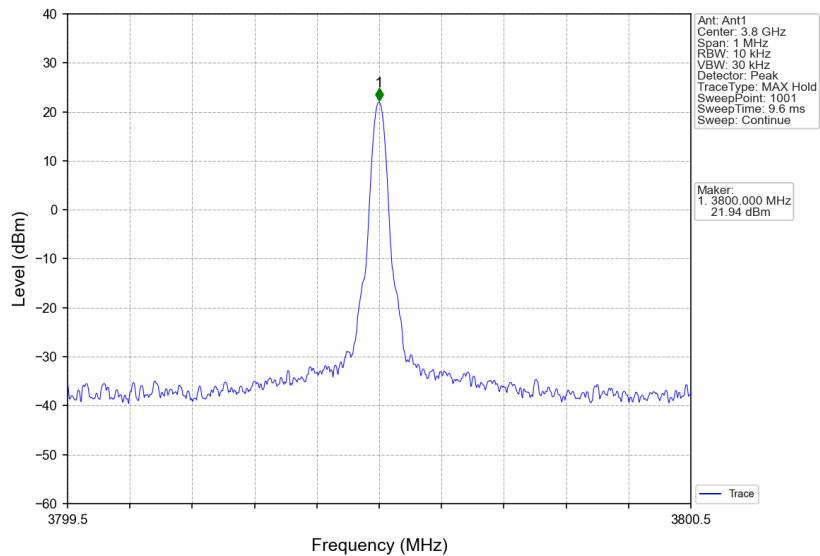
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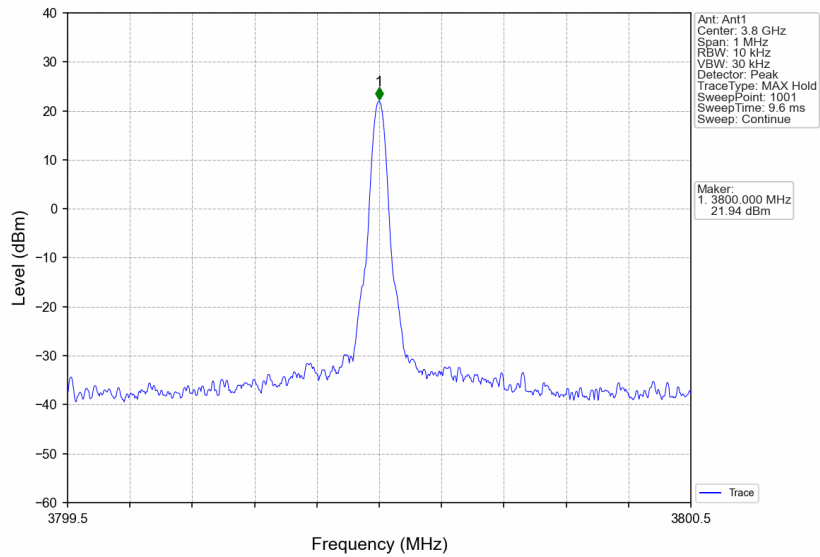
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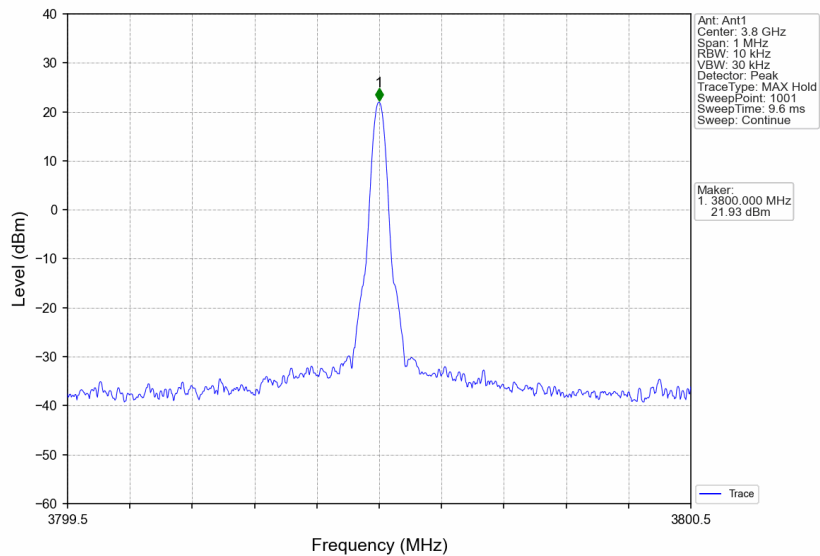
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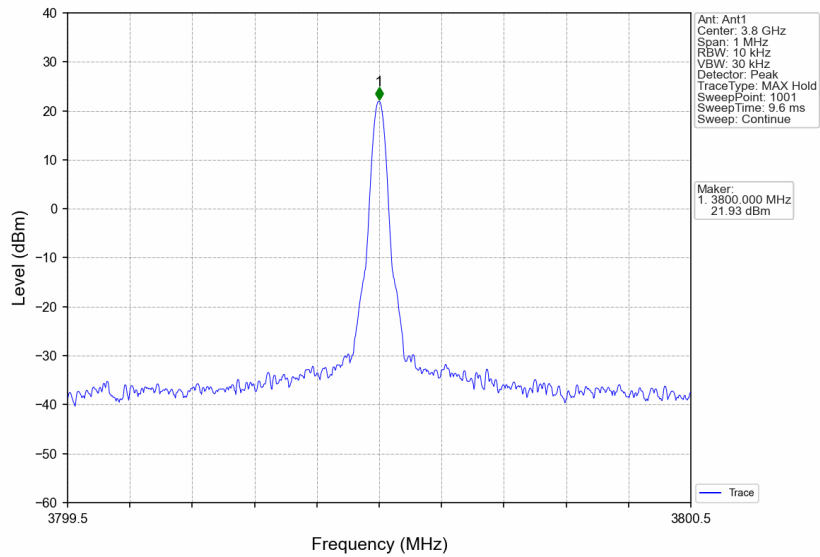
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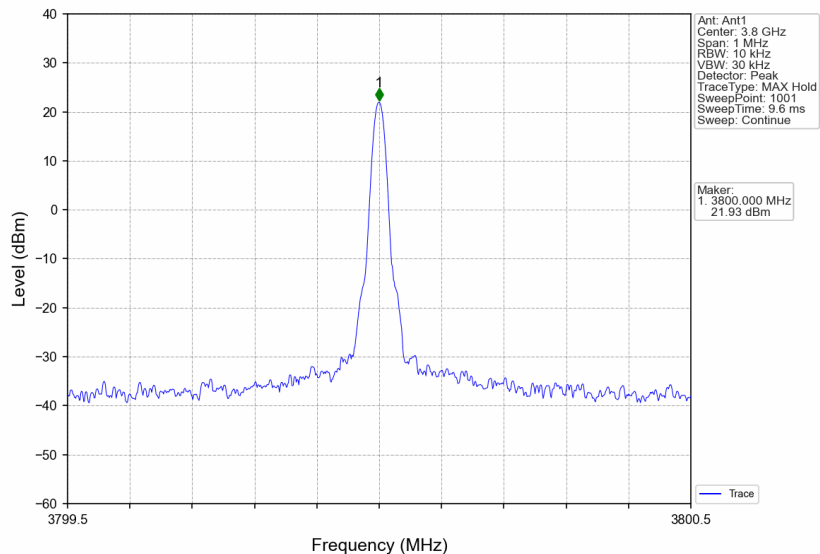
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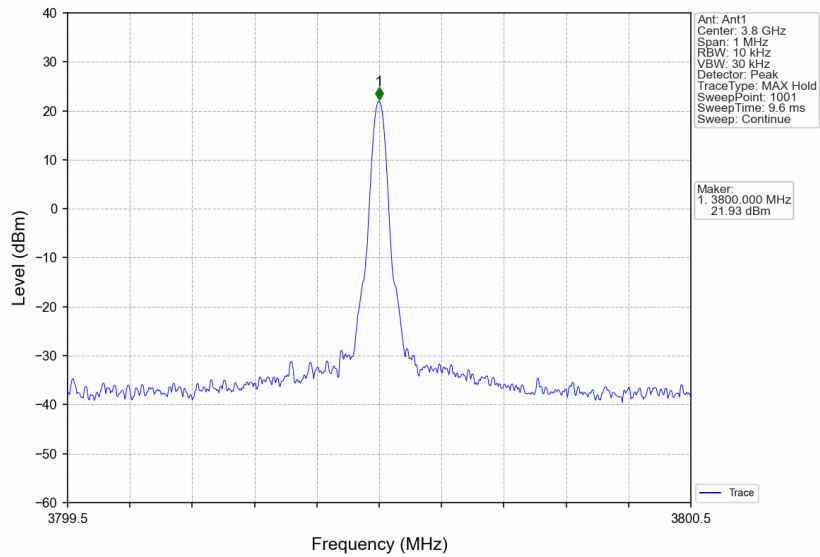


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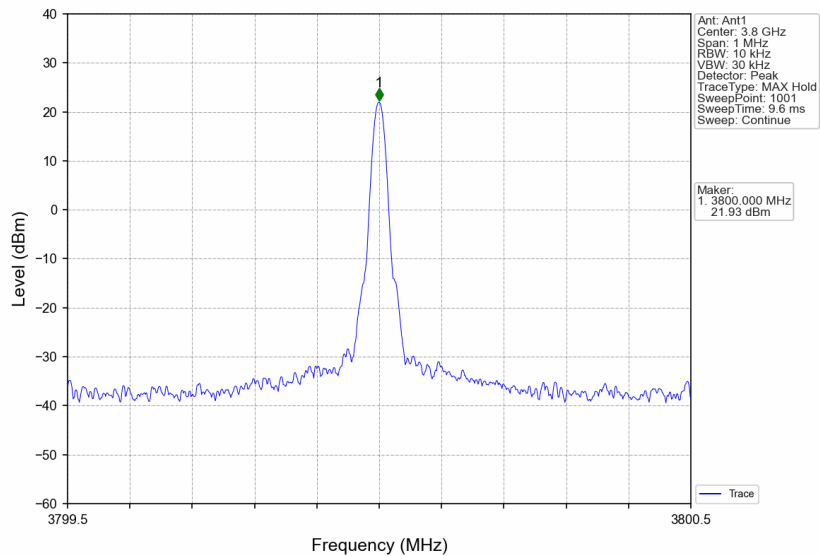
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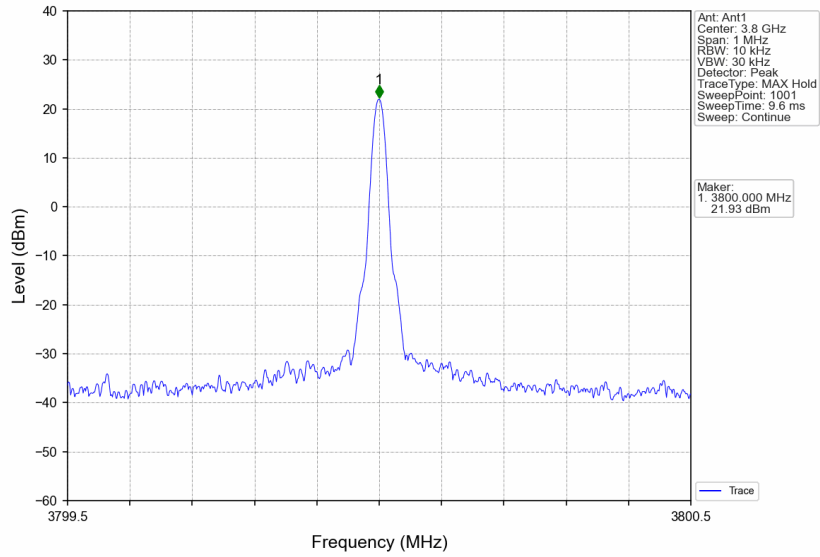
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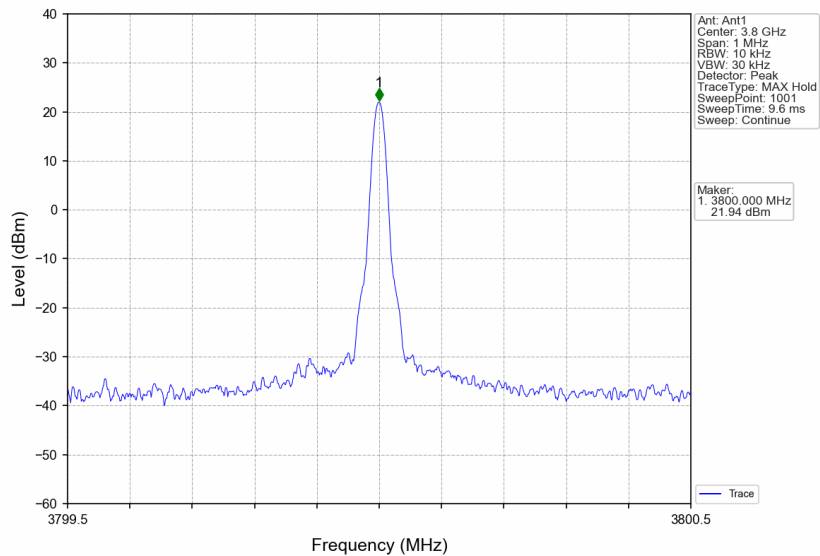
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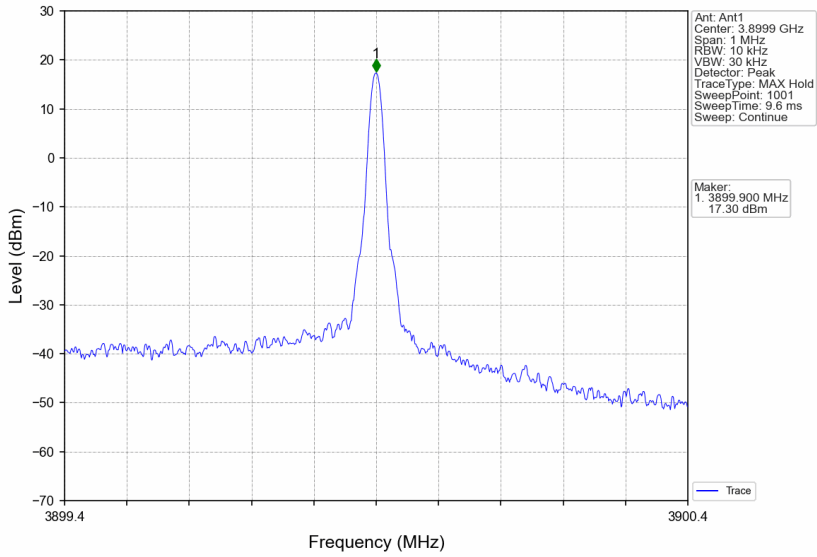
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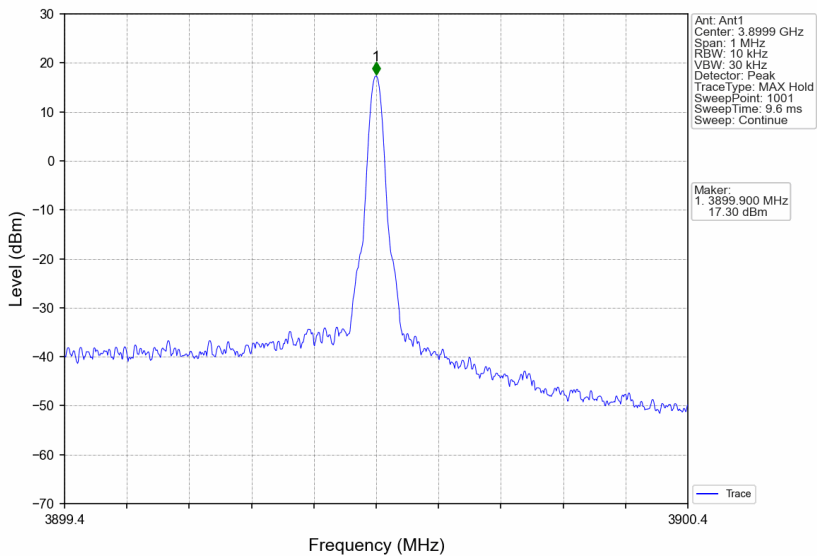
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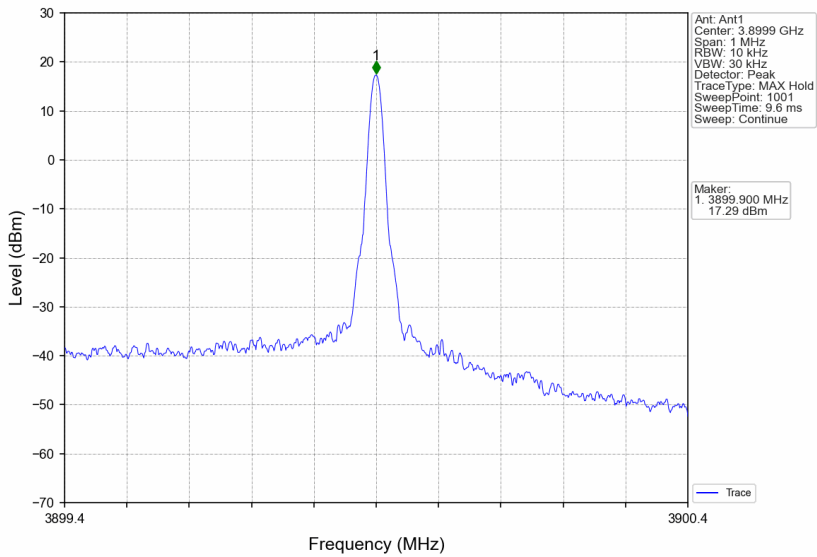
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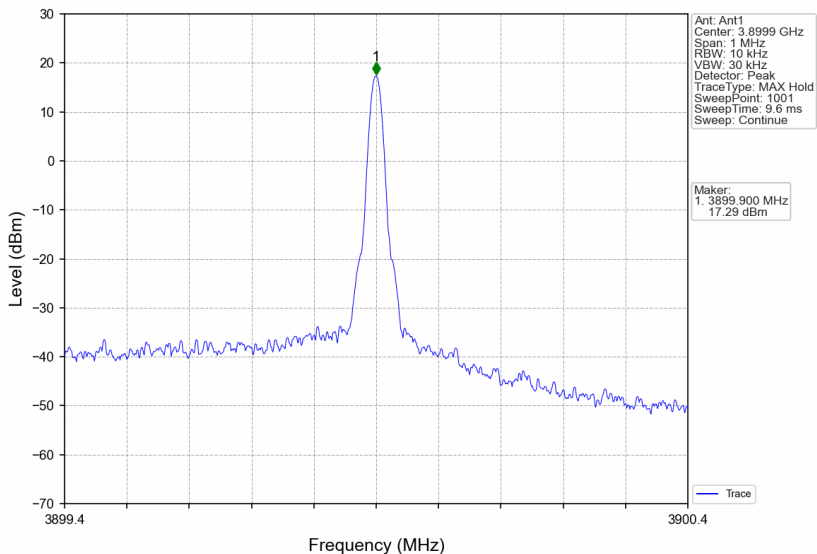
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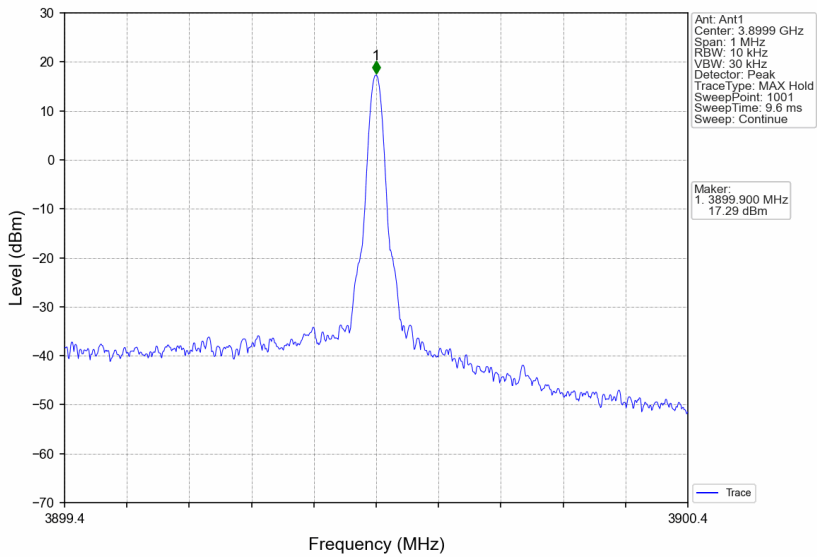
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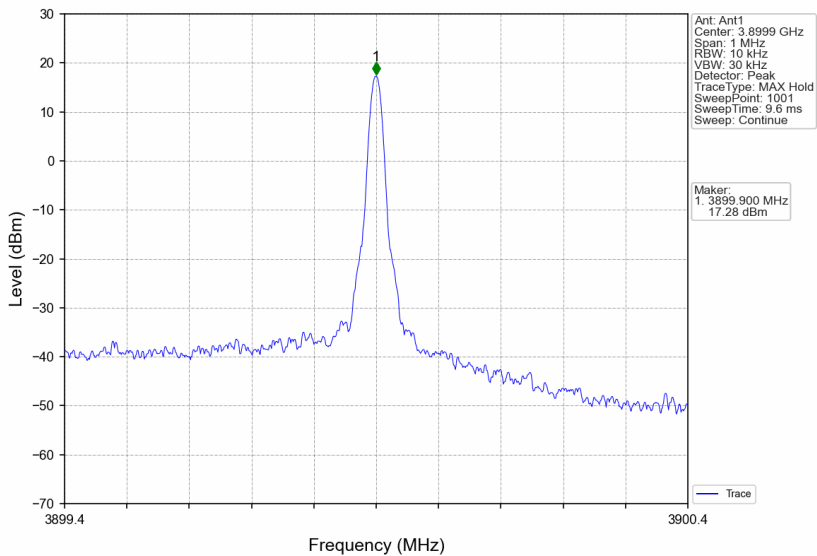
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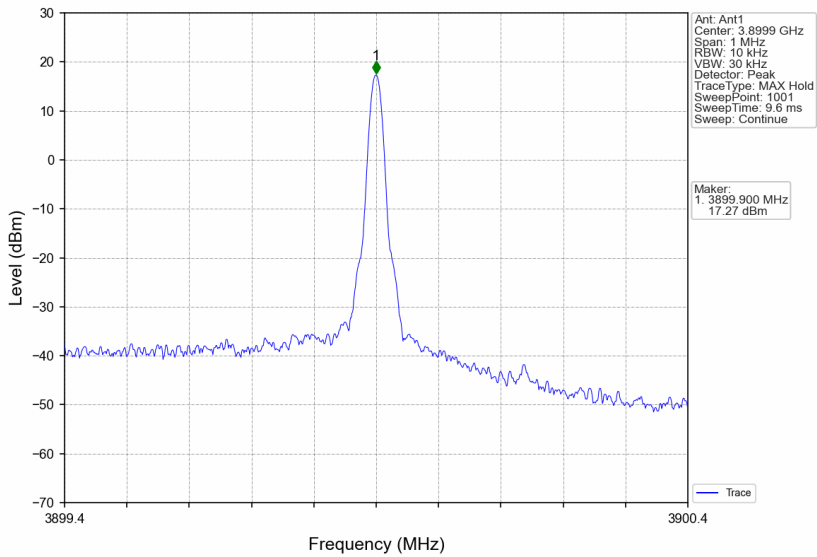
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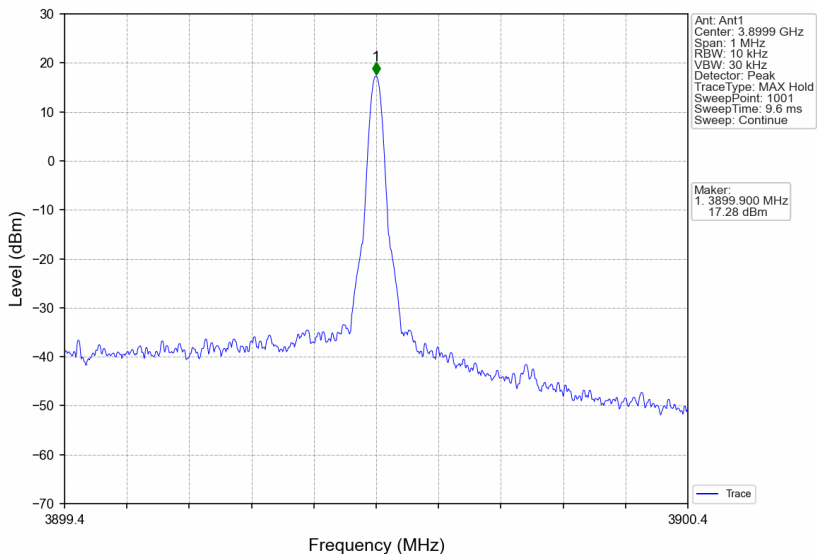
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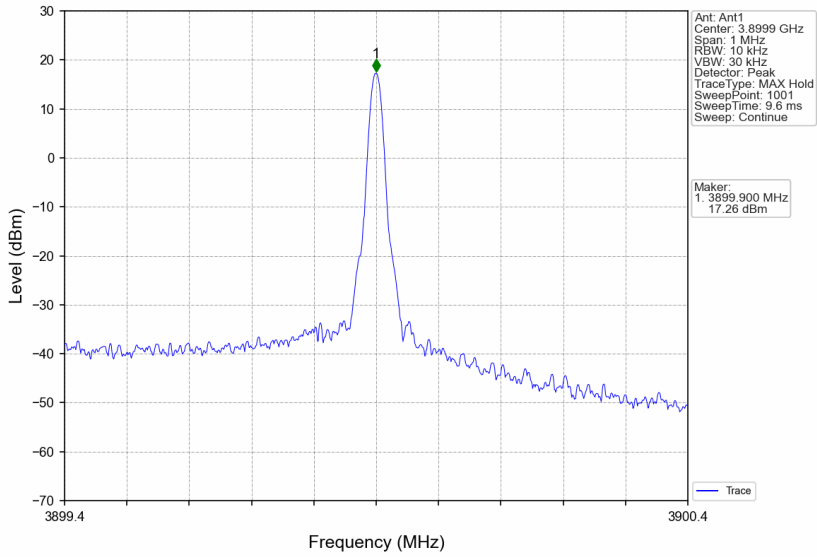
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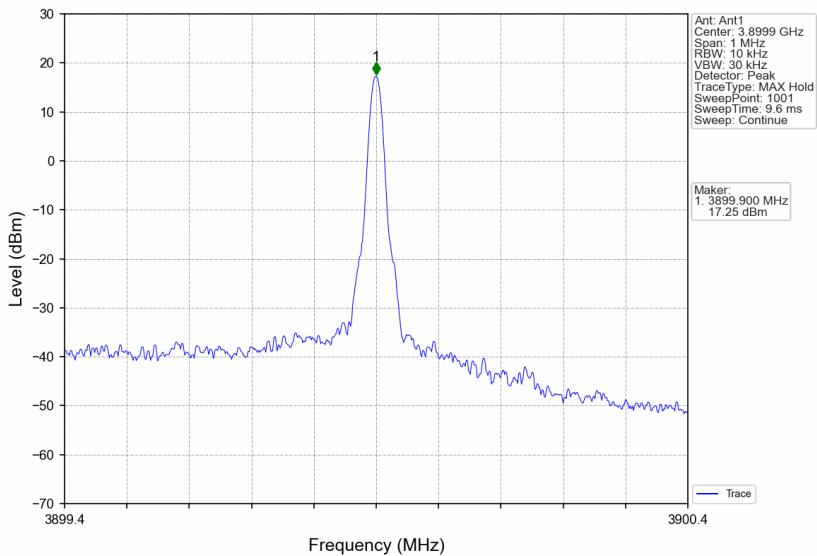
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