

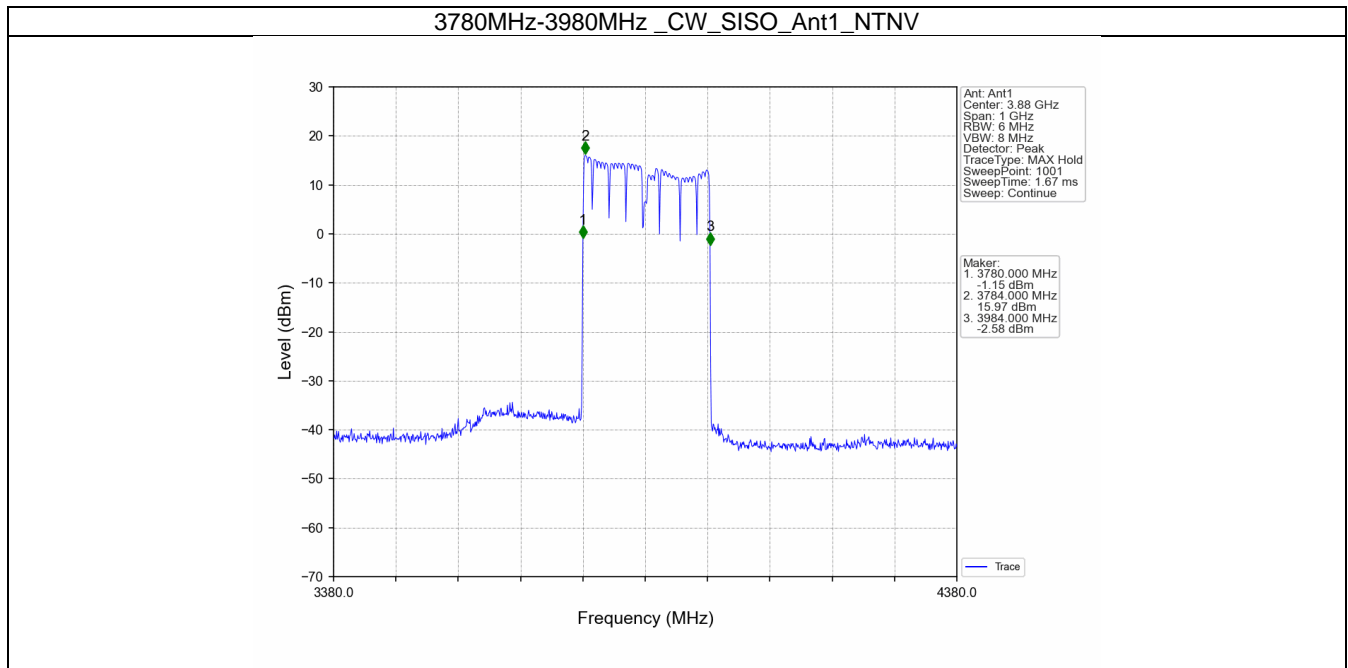
Appendix F for KSCR220600104502-FCC WWAN repeater(3780MHz-3980MHz)

1. Out of band rejection

1.1 Test Result

3780MHz-3980MHz / NTV							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	3380 - 4380	SISO	1	3784.000	3780.000	3984.000	Pass

1.1.1 Test Graph



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2. AGC threshold

2.1. Test Result

3780MHz-3980MHz / NTV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
AWGN	3784	SISO	1	-0.40	Pass
GMSK	3784	SISO	1	-0.40	Pass

3. Input-versus-output signal comparison

3.1 3780MHz-3980MHz OBW

3.1.1 Test Result

3780MHz-3980MHz / NTV							
Type	Signal		TX Type	ANT	99% OBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	2.6	3784	SISO	1	4.534	4.537	Pass
	-0.4	3784	SISO	1	4.542	4.534	Pass
GMSK	2.6	3784	SISO	1	0.244	0.245	Pass
	-0.4	3784	SISO	1	0.243	0.245	Pass

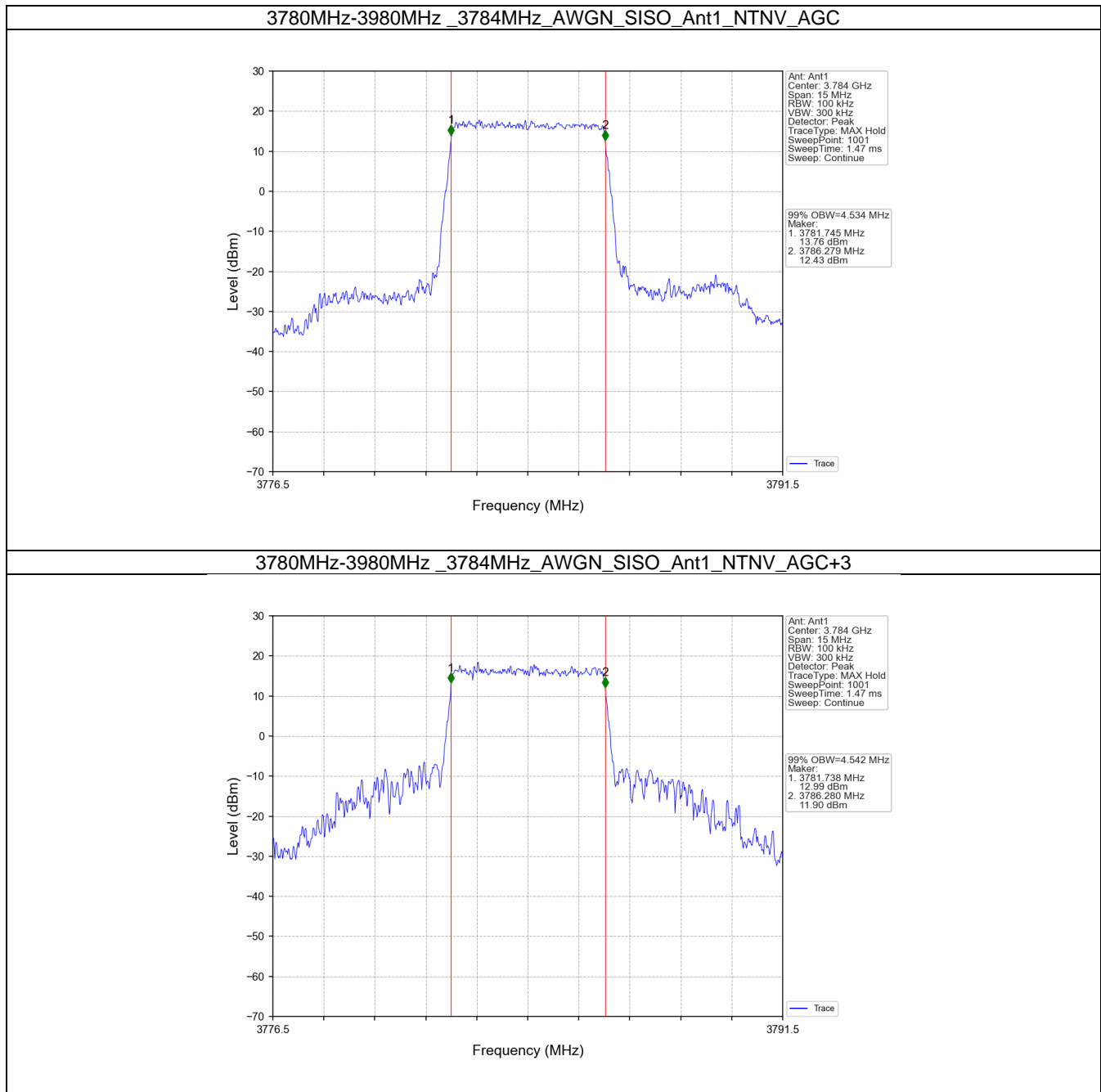


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3.1.2 Test Graph



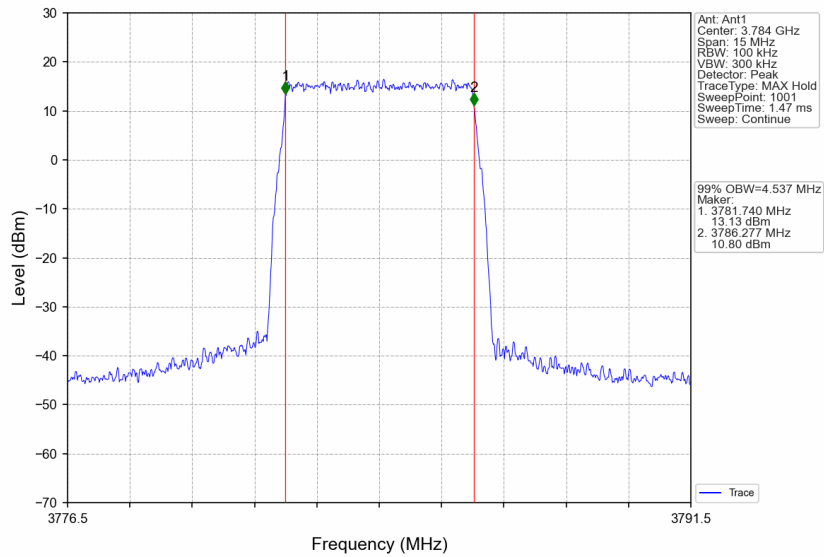
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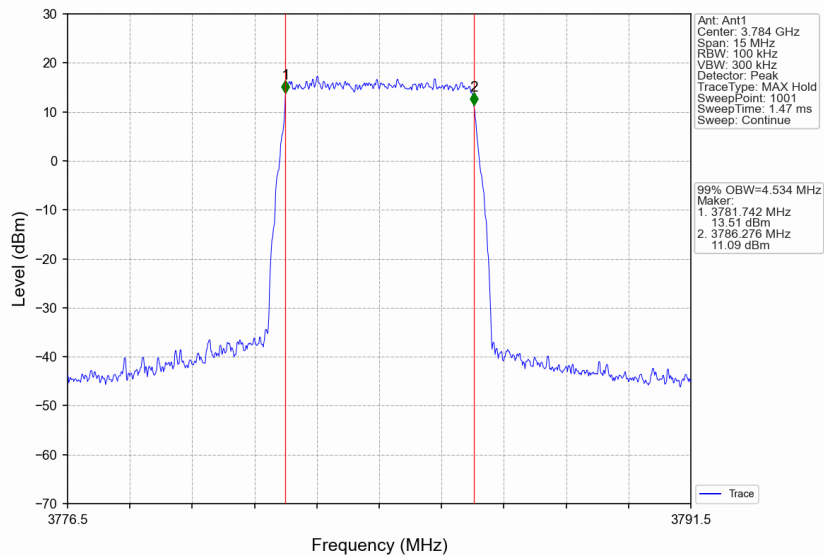
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3780MHz-3980MHz_3784MHz_AWGN_SISO_Ant1_NTNV_AGC+3



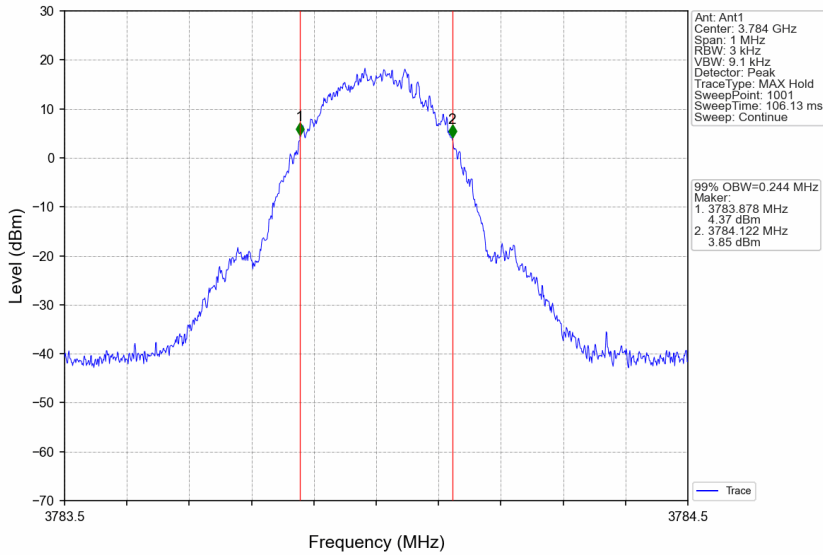
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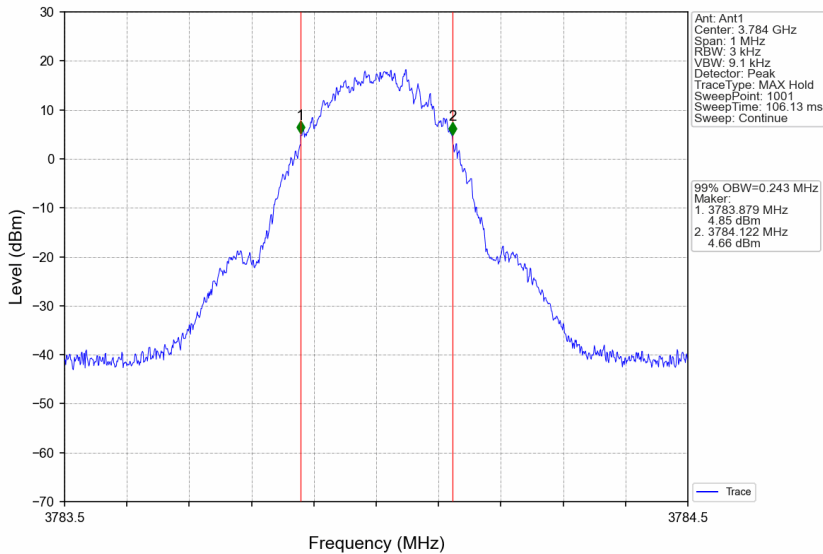
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3780MHz-3980MHz_3784MHz_GMSK_SISO_Ant1_NTNV_AGC



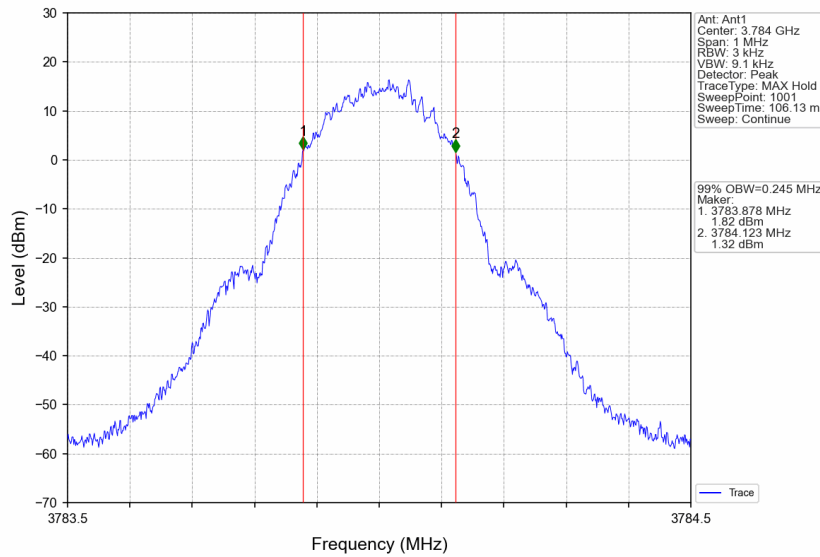
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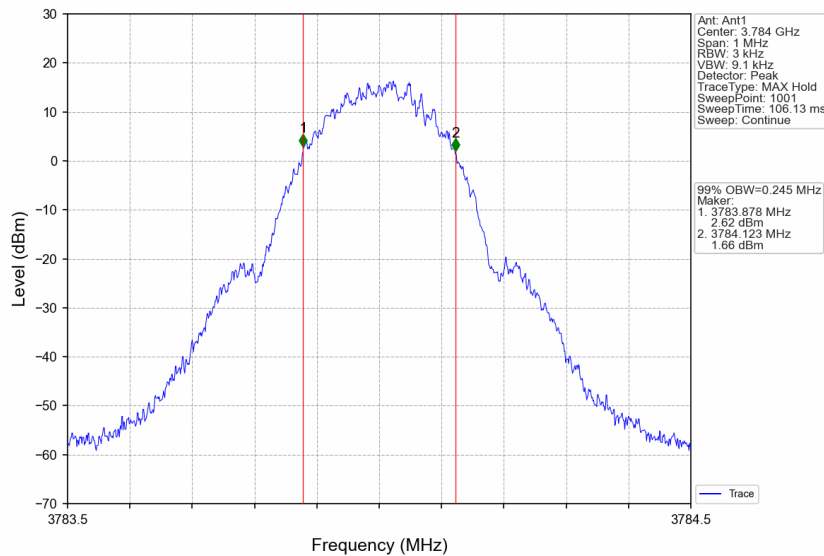
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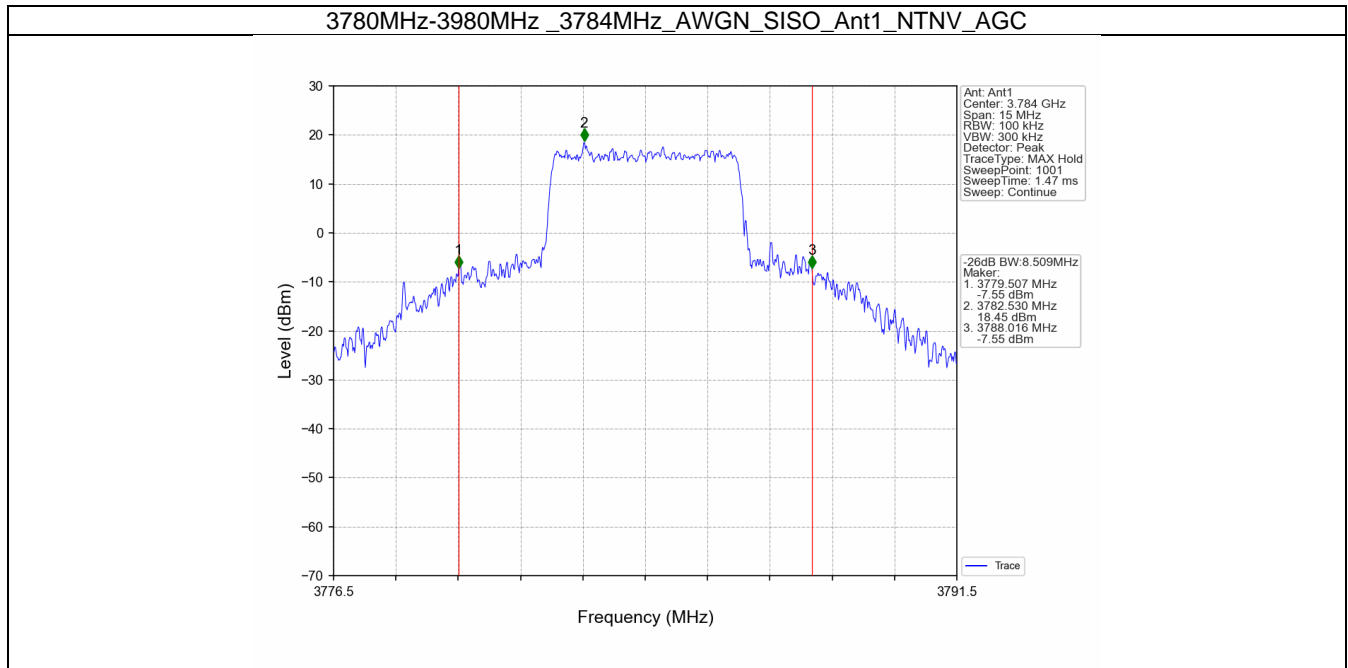
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3.2 3780MHz-3980MHz_EBW

3.2.1 Test Result

3780MHz-3980MHz / NTV							
Signal			TX Type	ANT	26dB EBW (MHz)		Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	2.6	3784	SISO	1	8.509	5.033	Pass
	-0.4	3784	SISO	1	8.545	5.039	Pass
GMSK	2.6	3784	SISO	1	0.315	0.315	Pass
	-0.4	3784	SISO	1	0.315	0.312	Pass

3.2.2 Test Graph



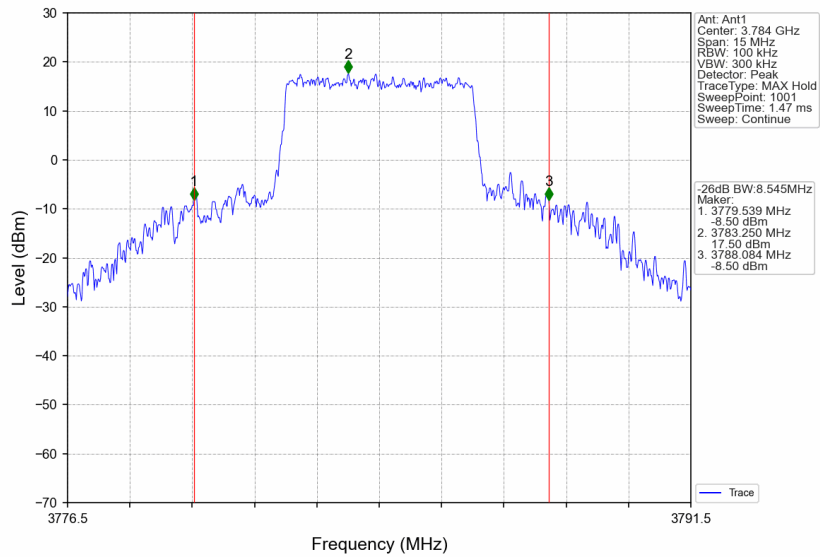
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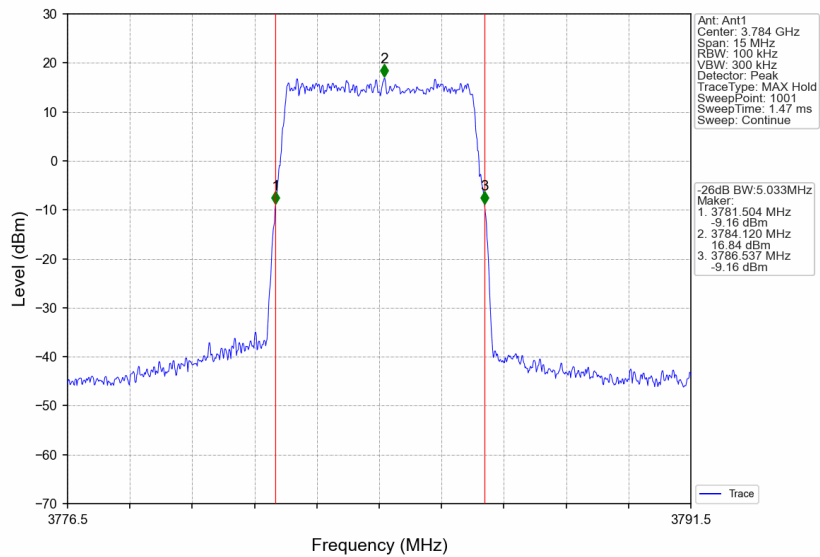
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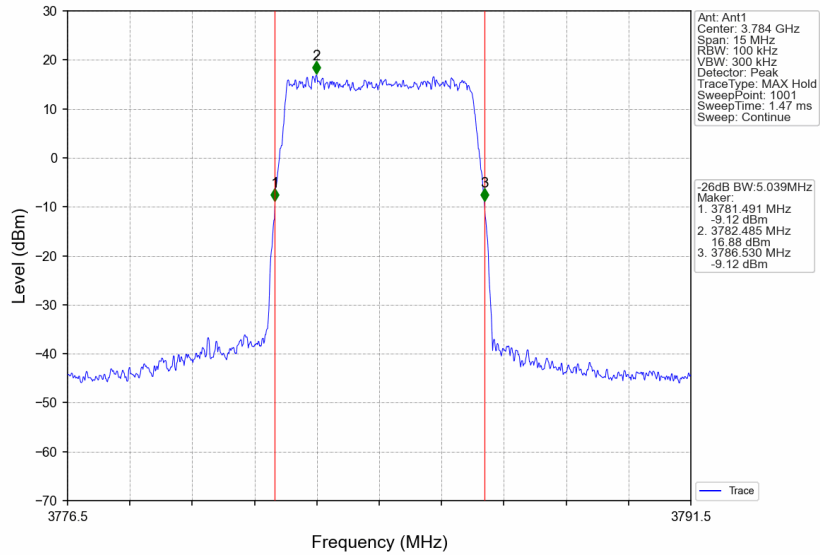


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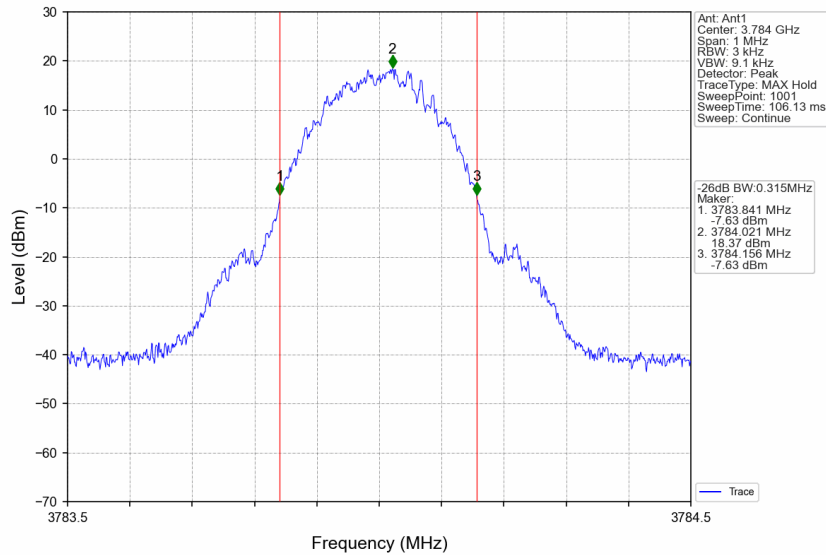
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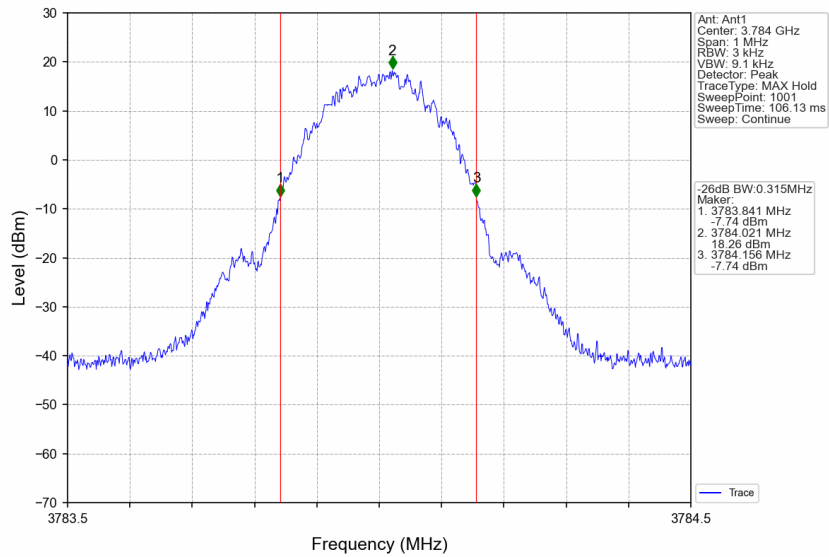


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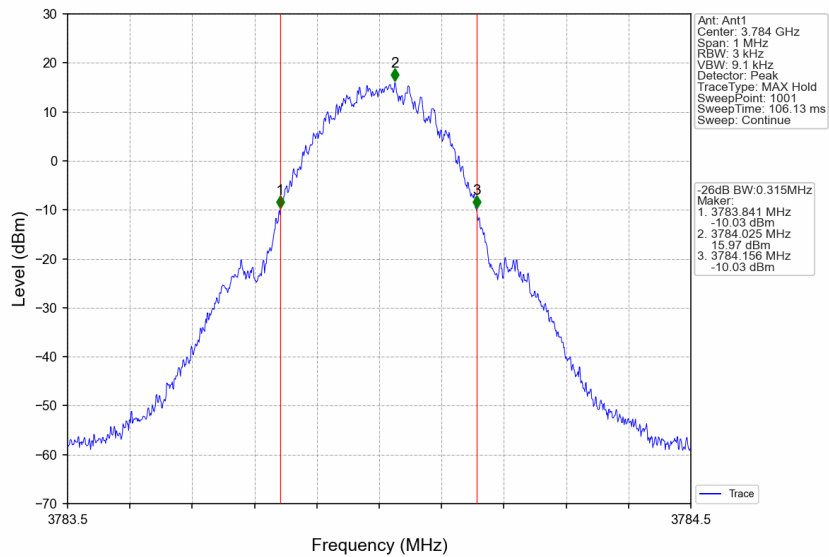
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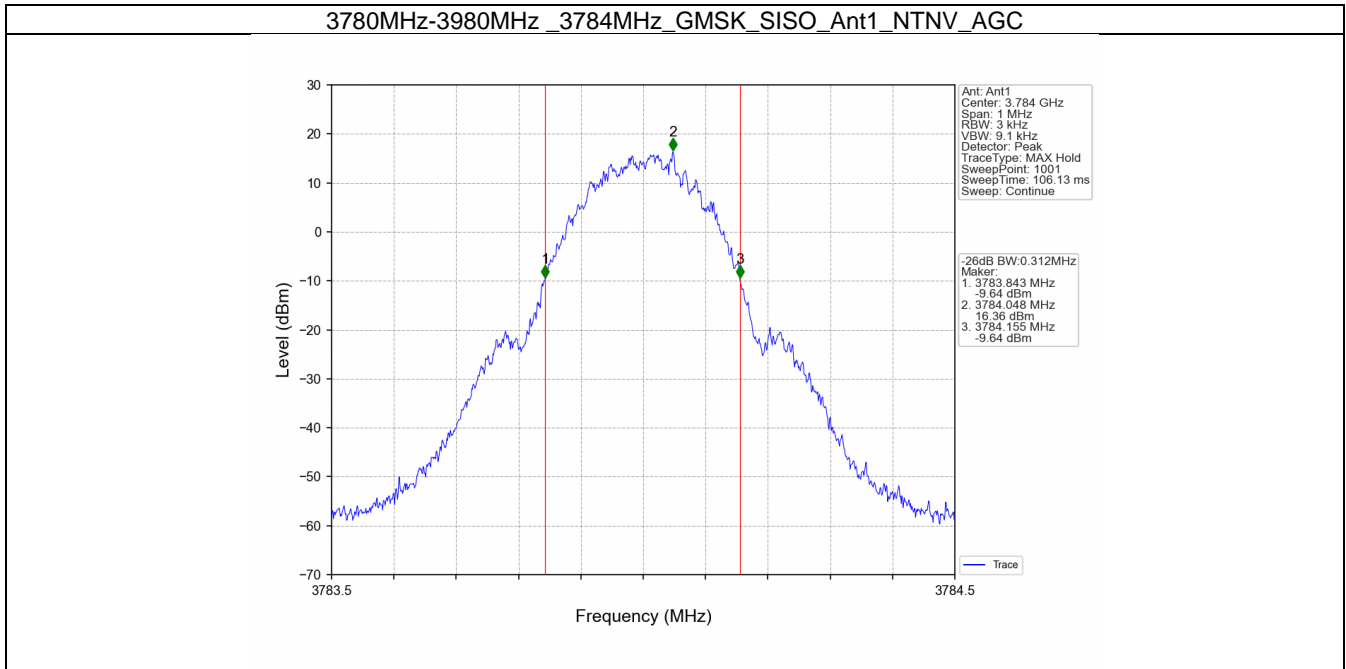
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4. Input/output power and amplifier/booster gain

4.1 3780MHz-3980MHz _EIRP

4.1.1 Test Result



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3780MHz-3980MHz / NTNV												
Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Output Power (dBm/MHz)				Total Output Power (dBm/MHz)	Total Output Power (dBm)	EIRP (dBm)	Gain (dB)
					Ant 1	Ant 2	Ant 3	Ant 4				
SISO mode												
3780MHz-3980MHz	3784	AWGN	Pre-AGC	-0.4	18.09	--	--	--	18.09	25.11	28.11	23.88
			3dB Above AGC	2.6	18.05	--	--	--	18.05	25.13	28.13	/
	3784	GMSK	Pre-AGC	-0.4	17.88	--	--	--	17.88	25.13	28.13	24.26
			3dB Above AGC	2.6	18.32	--	--	--	18.32	25.12	28.12	/

3780MHz-3980MHz / NTNV												
Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Output Power (dBm/MHz)				Total Output Power (dBm/MHz)		Gain (dB)	
					Ant 1	Ant 2	Ant 3	Ant 4	2X2 MIMO	4X4 MIMO		
MIMO mode												
3780MHz-3980MHz	3784	AWGN	Pre-AGC	-0.4	18.09	18.06	18.07	18.06	21.09	24.09	/	
			3dB Above AGC	2.6	18.05	18.04	18.04	18.04	21.05	24.05	/	
	3784	GMSK	Pre-AGC	-0.4	17.88	17.85	17.87	17.84	20.88	23.88	/	
			3dB Above AGC	2.6	18.32	18.31	18.32	18.30	21.32	24.32	/	

3780MHz-3980MHz / NTNV												
Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Total Output Power (dBm)				EIRP(dBm)		Gain (dB)	
					2X2 MIMO		4X4 MIMO		2X2 MIMO	4X4 MIMO		
MIMO mode												
3780MHz-3980MHz	3784	AWGN	Pre-AGC	-0.4	28.12		31.13		31.12	34.13	/	
			3dB Above AGC	2.6	28.14		31.15		31.14	34.15	/	
	3784	GMSK	Pre-AGC	-0.4	28.14		31.15		31.14	34.15	/	
			3dB Above AGC	2.6	28.13		31.14		31.13	34.14	/	

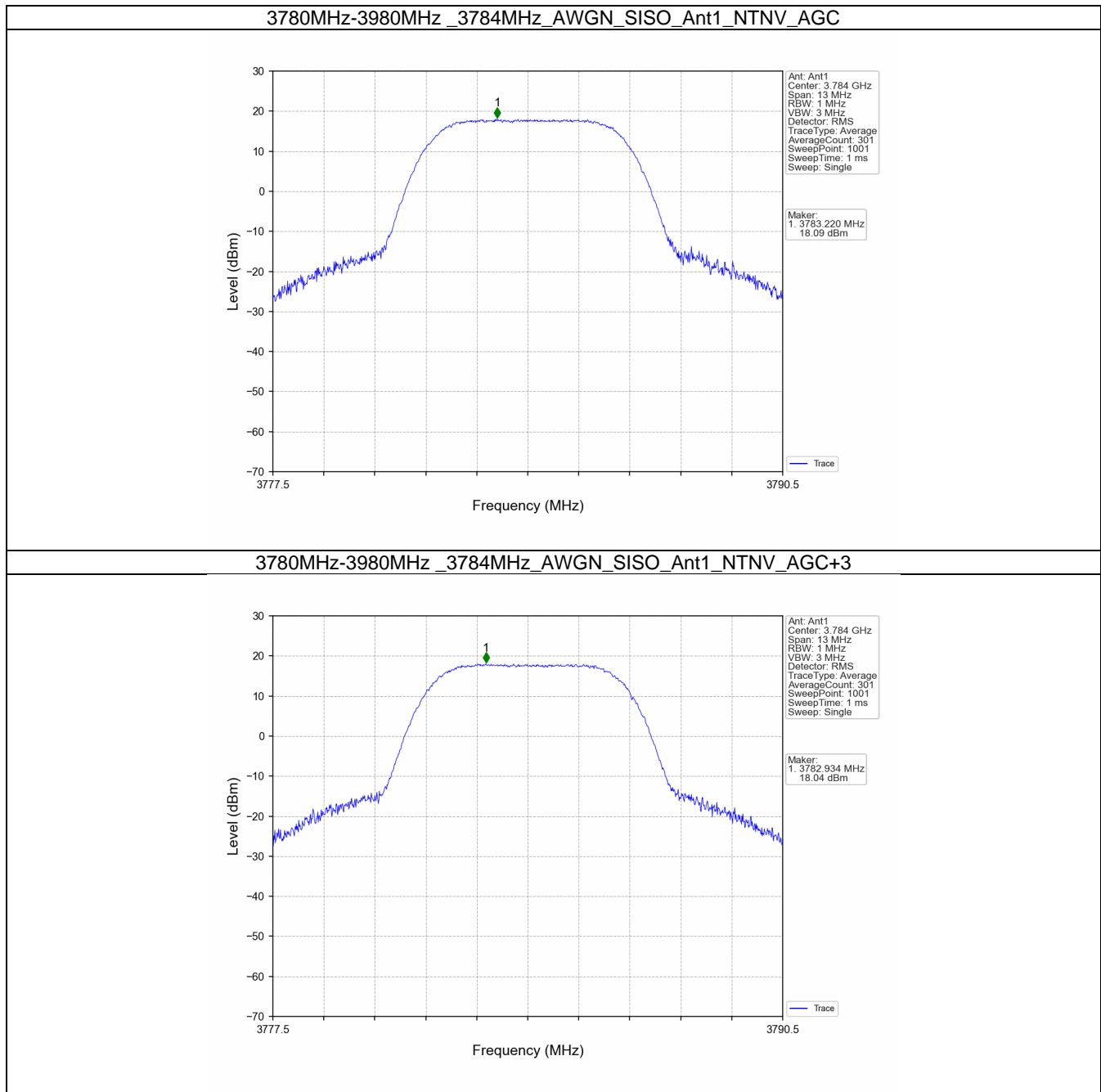
Remark:

- 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



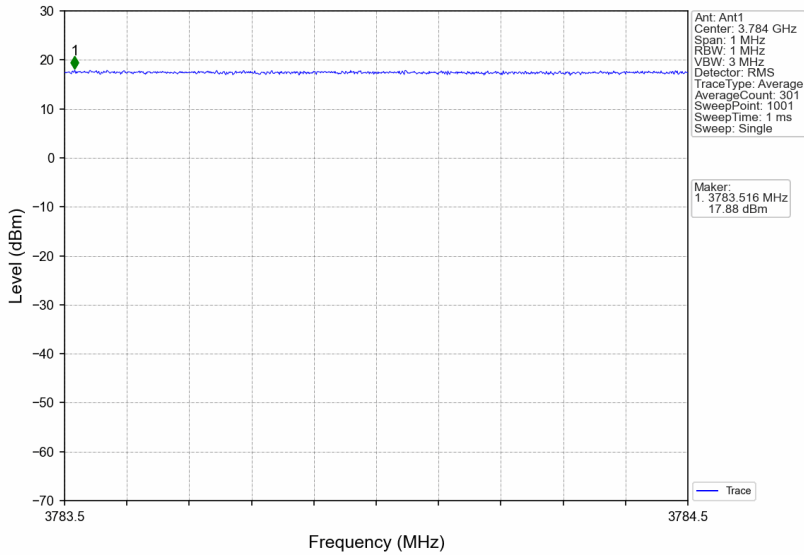
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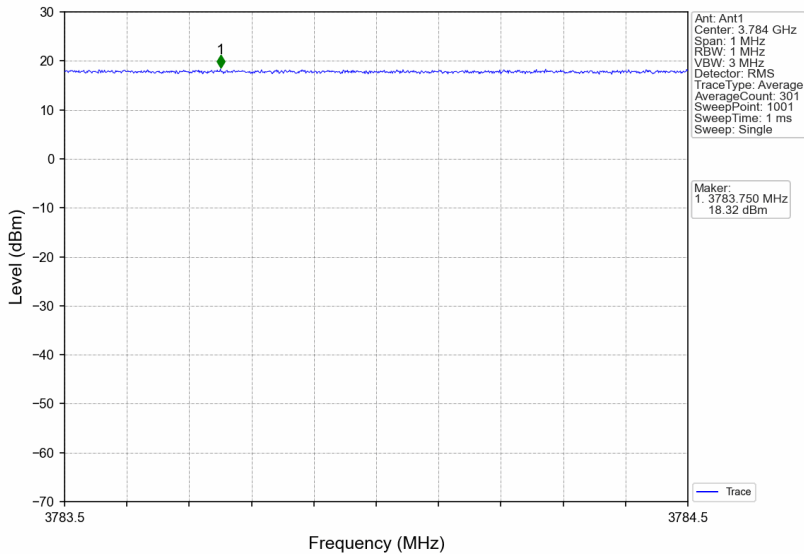
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3780MHz-3980MHz_3784MHz_GMSK_SISO_Ant1_NTNV_AGC



3780MHz-3980MHz_3784MHz_GMSK_SISO_Ant1_NTNV_AGC+3



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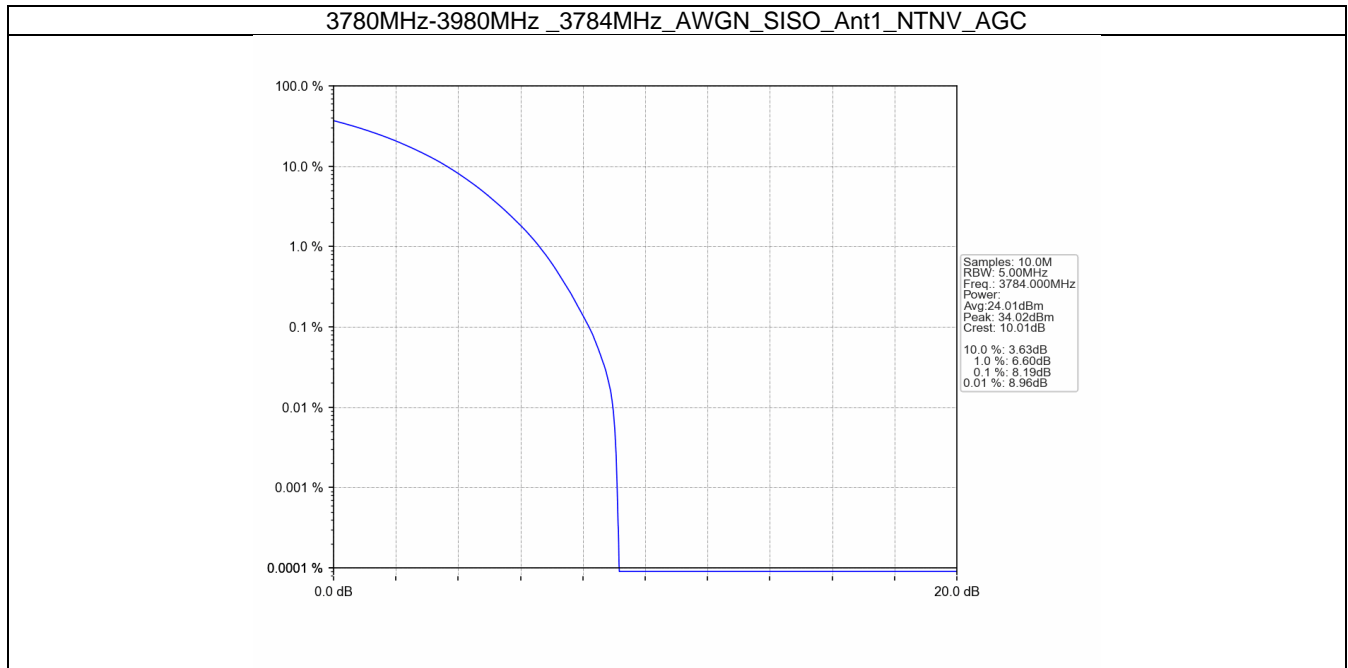
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4.2 3780MHz-3980MHz _PAPR

4.2.1 Test Result

3780MHz-3980MHz / NTV							
Type	Signal		TX Type	ANT	PAPR (dB)		Verdict
	Level (dBm)	Frequency (MHz)			Result	Limit	
AWGN	-0.4	3784	SISO	1	8.19	<=13	Pass
	2.6	3784	SISO	1	8.11	<=13	Pass
GMSK	-0.4	3784	SISO	1	0.33	<=13	Pass
	2.6	3784	SISO	1	0.30	<=13	Pass

4.2.2 Test Graph

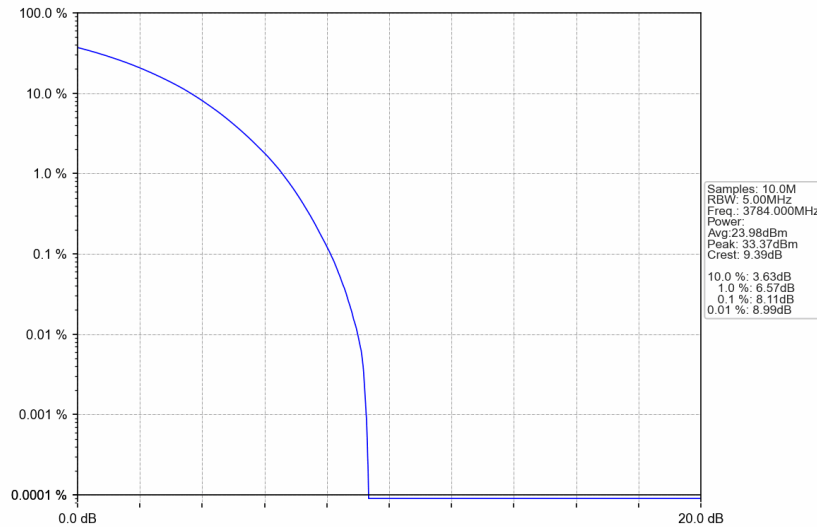


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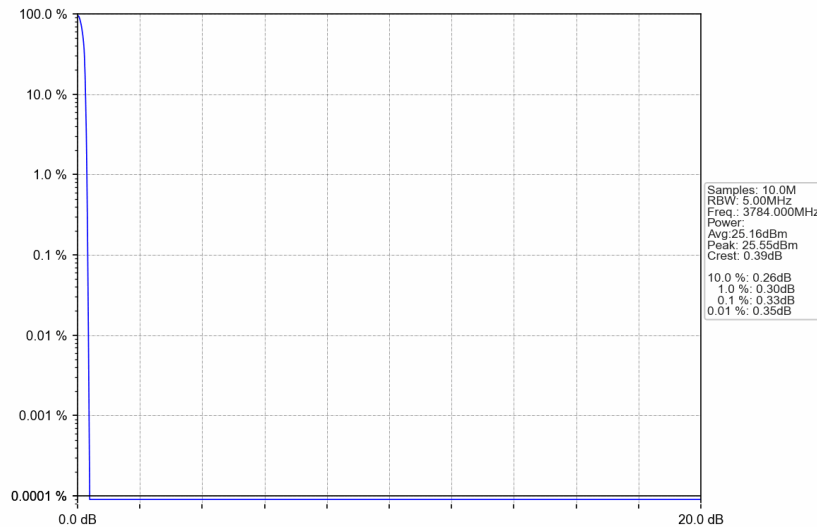
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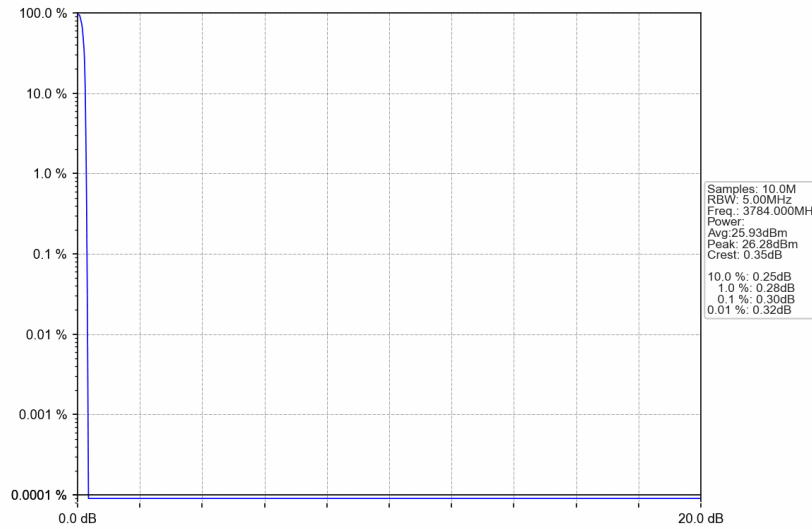


3780MHz-3980MHz_3784MHz_GMSK_SISO_Ant1_NTNV_AGC



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3780MHz-3980MHz_3784MHz_GMSK_SISO_Ant1_NTNV_AGC+3



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

5.1. Test Result

3780MHz-3980MHz / NTNv									
Input	Type	Signal		Channel	TX Type	ANT	OOB (dBm)		Verdict
		Level (dBm)	Frequency (MHz)				Result	Limit	
Two	AWGN	-0.4	3782.5	LCH	SISO	1	-64.87	Refer To Test Graph	Pass
		2.6	3782.5	LCH	SISO	1	-64.78	Refer To Test Graph	Pass
One	AWGN	-0.4	3782.5	LCH	SISO	1	-65.17	Refer To Test Graph	Pass
		2.6	3782.5	LCH	SISO	1	-64.49	Refer To Test Graph	Pass
Two	AWGN	-0.4	3977.5	HCH	SISO	1	-55.45	Refer To Test Graph	Pass
		2.6	3977.5	HCH	SISO	1	-43.68	Refer To Test Graph	Pass
One	AWGN	-0.4	3977.5	HCH	SISO	1	-37.92	Refer To Test Graph	Pass
		2.6	3977.5	HCH	SISO	1	-42.40	Refer To Test Graph	Pass
Two	GMSK	-0.4	3780.1	LCH	SISO	1	-64.62	Refer To Test Graph	Pass
		2.6	3780.1	LCH	SISO	1	-64.01	Refer To Test Graph	Pass
One	GMSK	-0.4	3780.1	LCH	SISO	1	-64.54	Refer To Test Graph	Pass
		2.6	3780.1	LCH	SISO	1	-64.42	Refer To Test Graph	Pass
Two	GMSK	-0.4	3979.9	HCH	SISO	1	-33.41	Refer To Test Graph	Pass
		2.6	3979.9	HCH	SISO	1	-33.02	Refer To Test Graph	Pass
One	GMSK	-0.4	3979.9	HCH	SISO	1	-33.54	Refer To Test Graph	Pass
		2.6	3979.9	HCH	SISO	1	-32.10	Refer To Test Graph	Pass

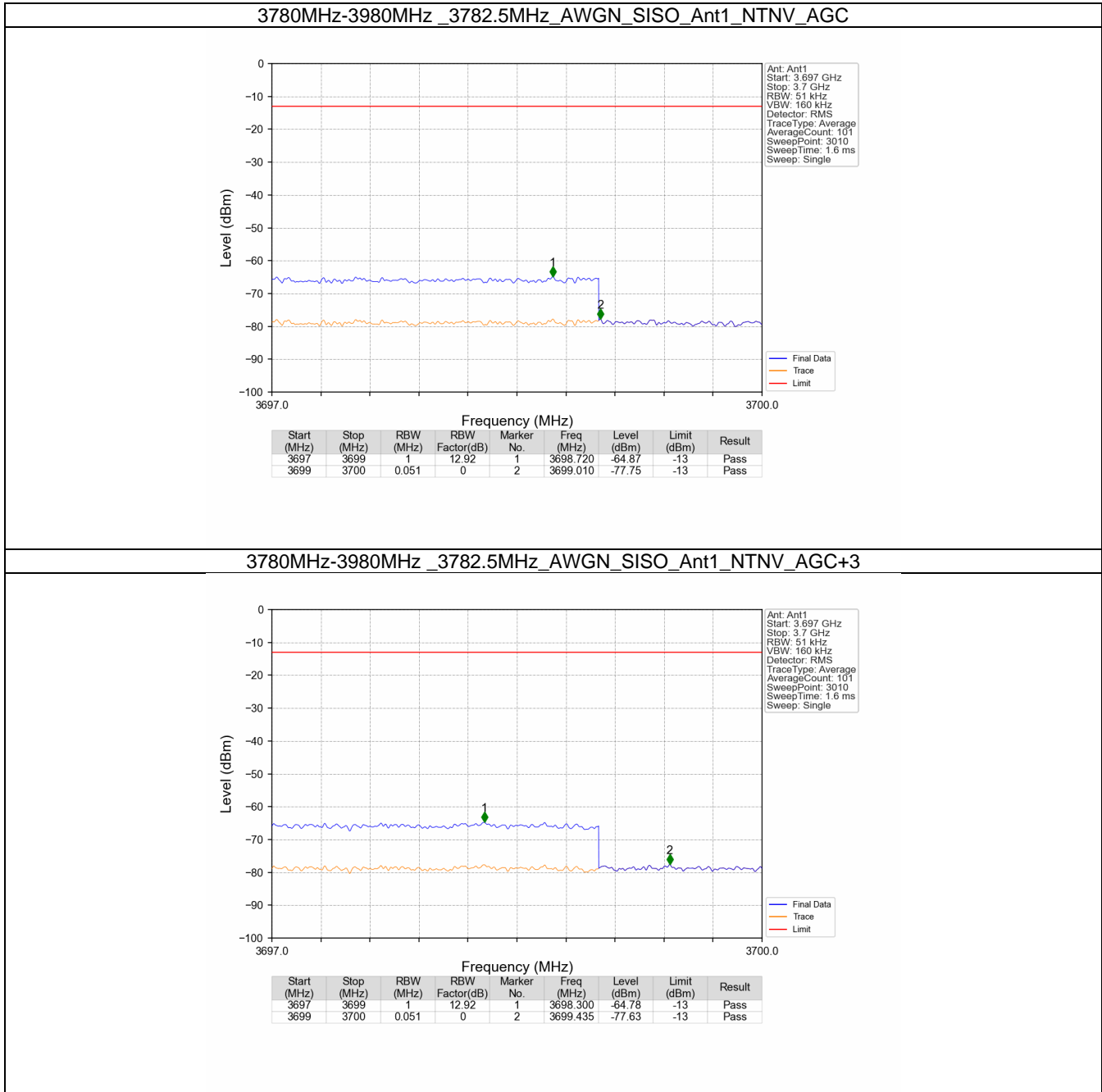


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5.1.2 Test Graph



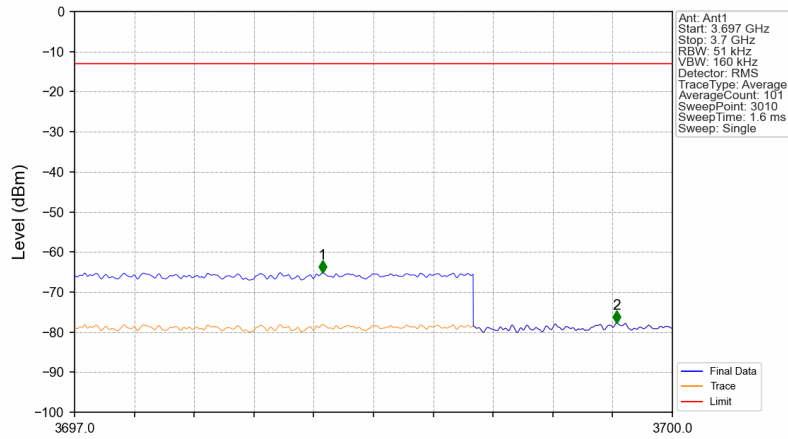
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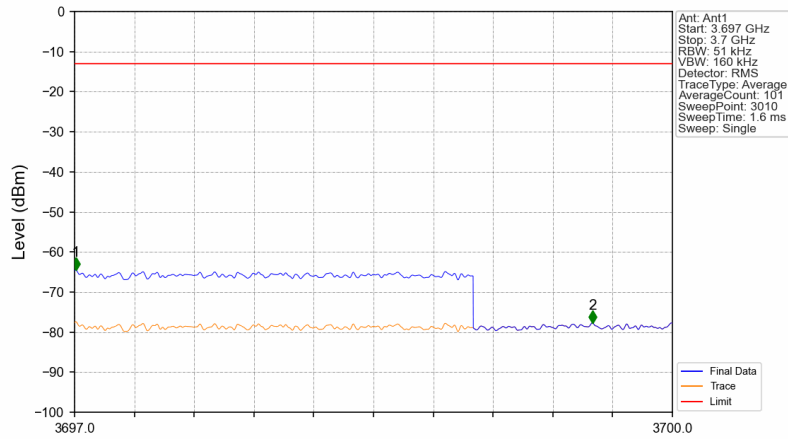
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3780MHz-3980MHz_3782.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3697	3699	1	12.92	1	3698.244	-65.17	-13	Pass
3699	3700	0.051	0	2	3699.720	-77.70	-13	Pass

3780MHz-3980MHz_3782.5MHz_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	3697.006	-64.49	-13	Pass
3699	3700	0.051	0	2	3699.598	-77.70	-13	Pass

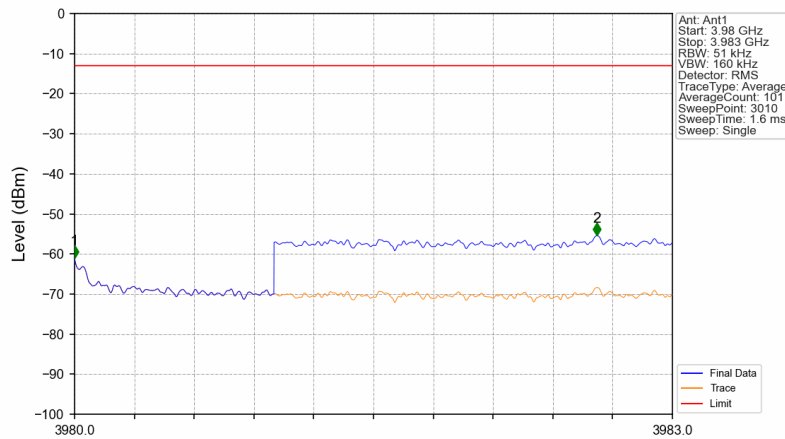


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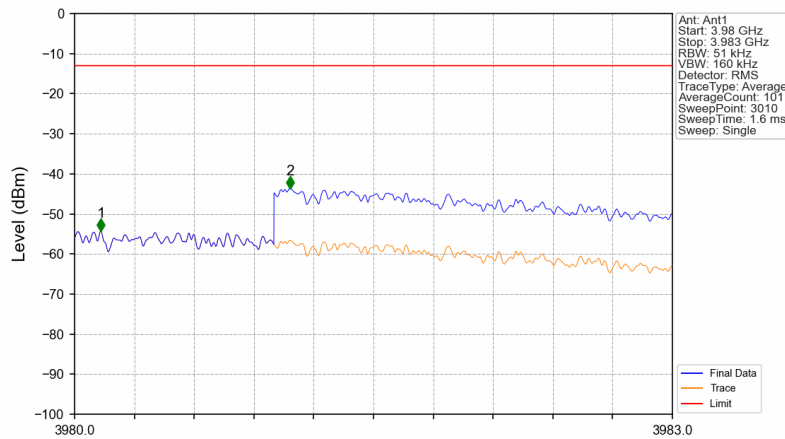
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Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3980	3981	0.051	0	1	3980.000	-61.08	-13	Pass
3981	3983	1	12.92	2	3982.622	-55.45	-13	Pass

3780MHz-3980MHz_3977.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



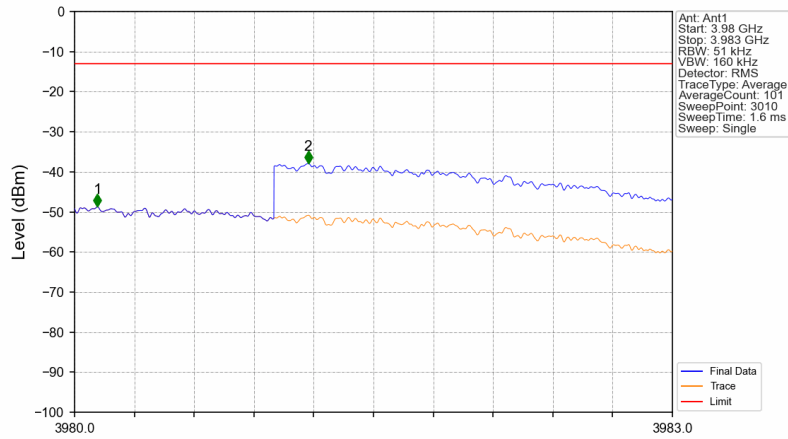
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3980	3981	0.051	0	1	3980.132	-54.26	-13	Pass
3981	3983	1	12.92	2	3981.081	-43.68	-13	Pass



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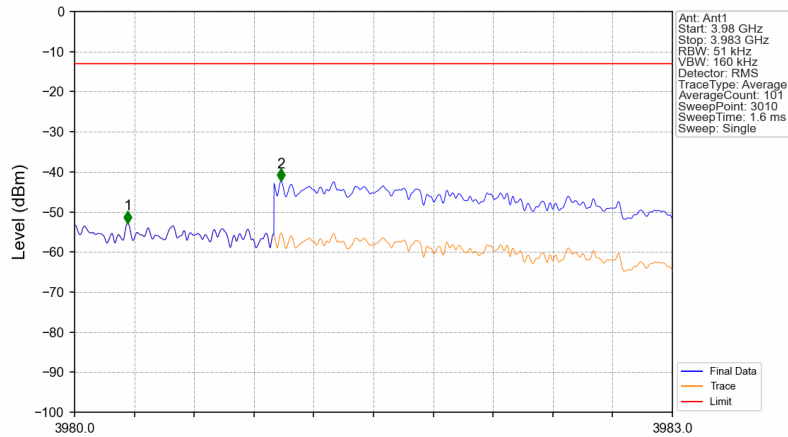
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Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3980	3981	0.051	0	1	3980.115	-48.73	-13	Pass
3981	3983	1	12.92	2	3981.172	-37.92	-13	Pass

3780MHz-3980MHz_3977.5MHz_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	3980.266	-52.84	-13	Pass
3981	3983	1	12.92	2	3981.036	-42.40	-13	Pass

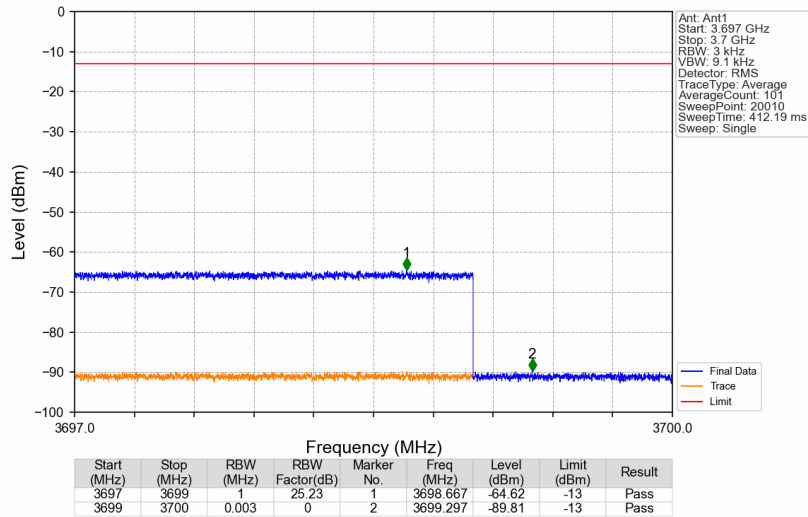


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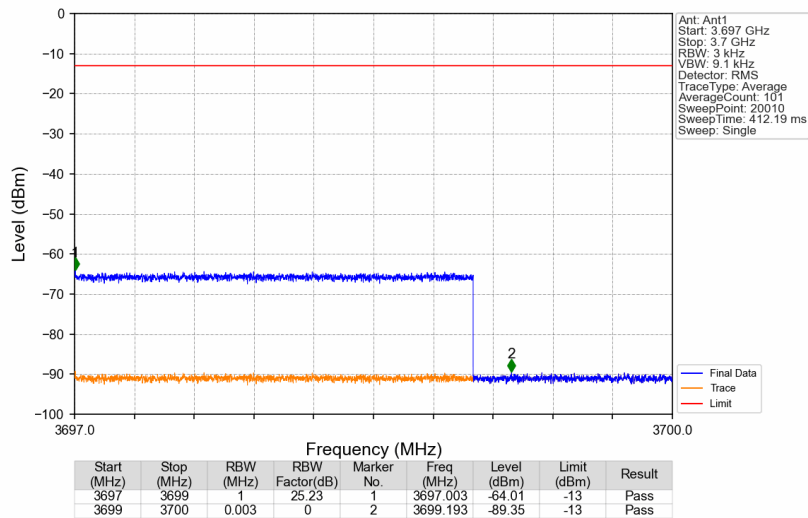
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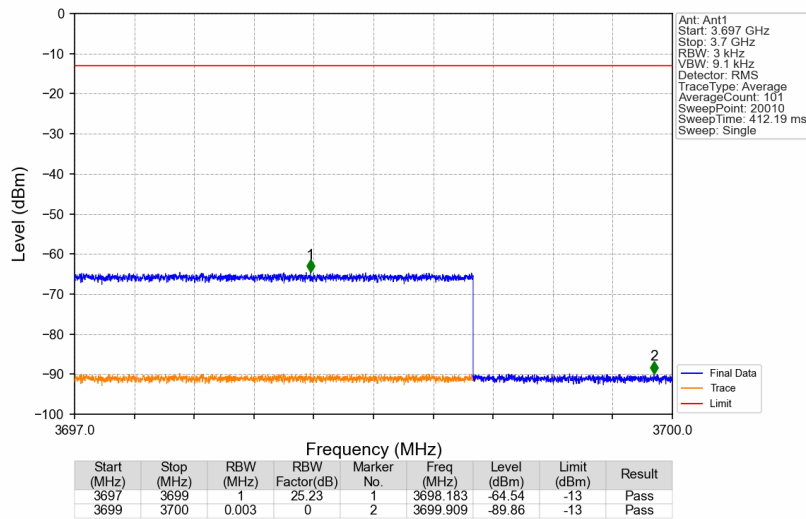


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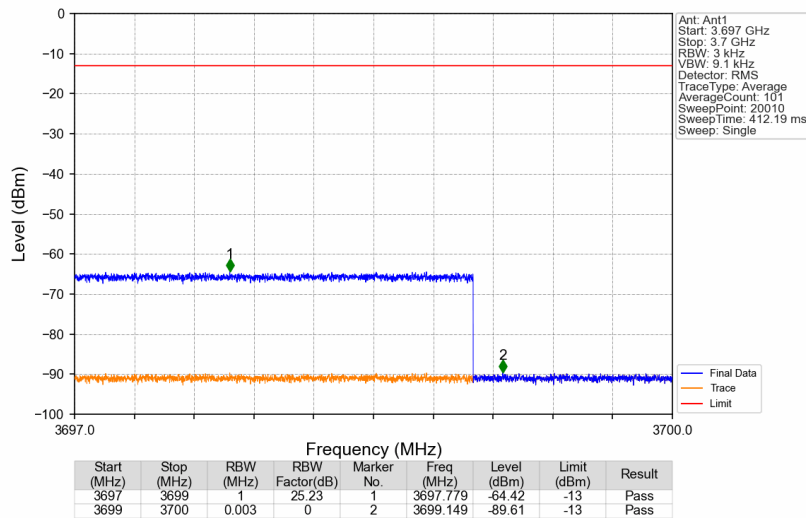
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3780MHz-3980MHz_3780.1MHz_GMSK_SISO_Ant1_NTNV_AGC



3780MHz-3980MHz_3780.1MHz_GMSK_SISO_Ant1_NTNV_AGC+3



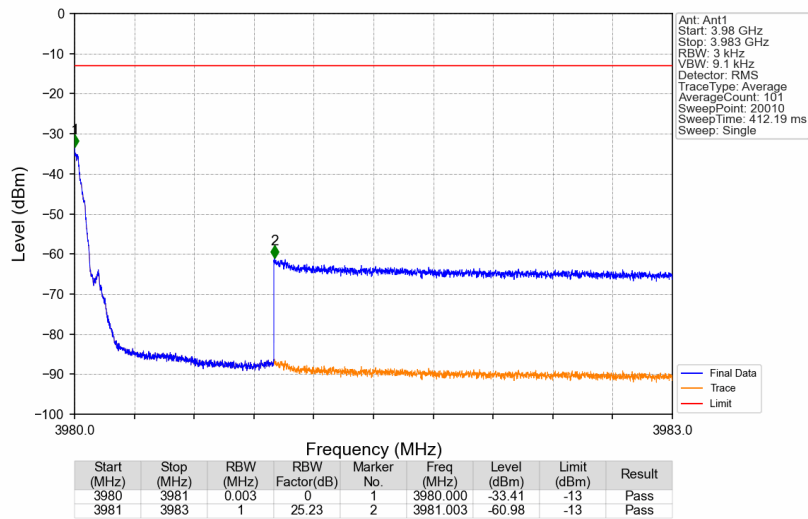
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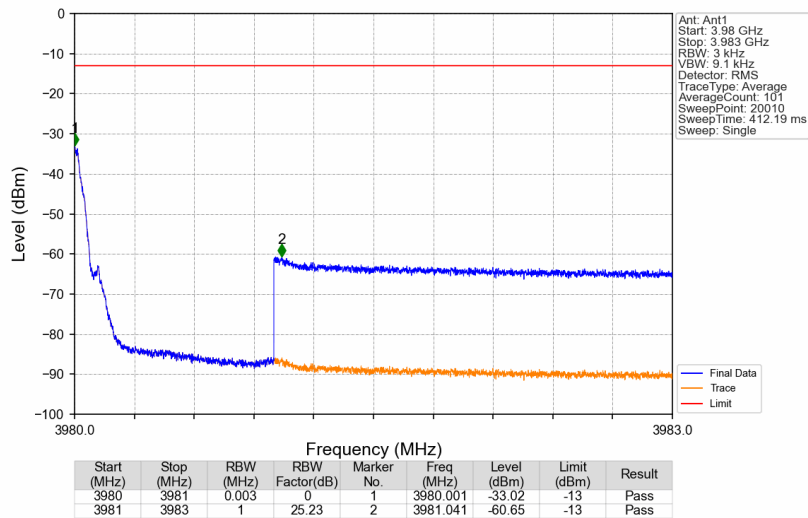
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3780MHz-3980MHz_3979.9MHz_GMSK_SISO_Ant1_NTNV_AGC



3780MHz-3980MHz_3979.9MHz_GMSK_SISO_Ant1_NTNV_AGC+3

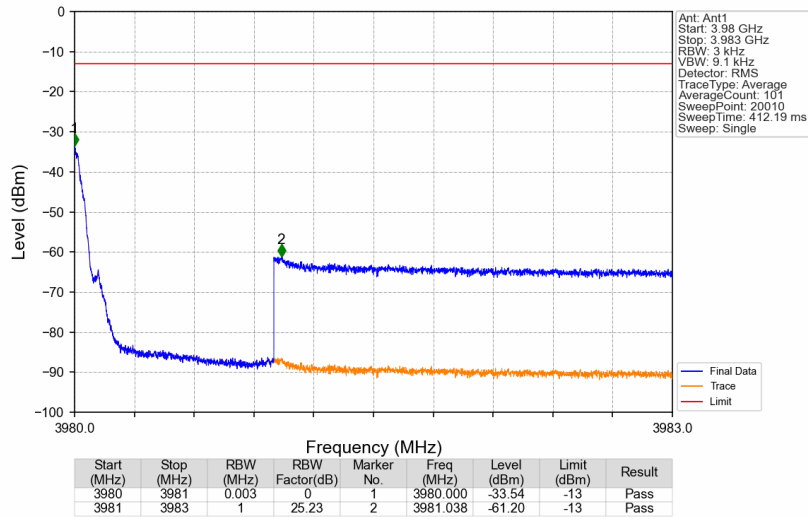


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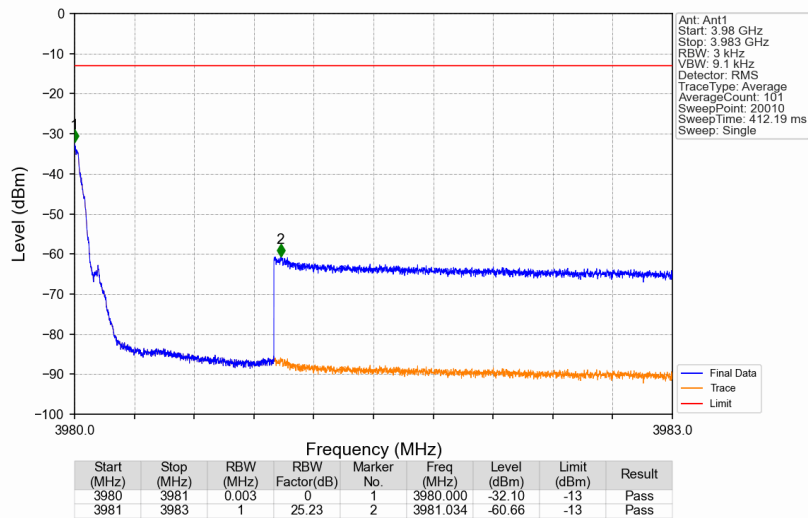
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3780MHz-3980MHz_3979.9MHz_GMSK_SISO_Ant1_NTNV_AGC



3780MHz-3980MHz_3979.9MHz_GMSK_SISO_Ant1_NTNV_AGC+3



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6. Spurious emissions

6.1. Test Result

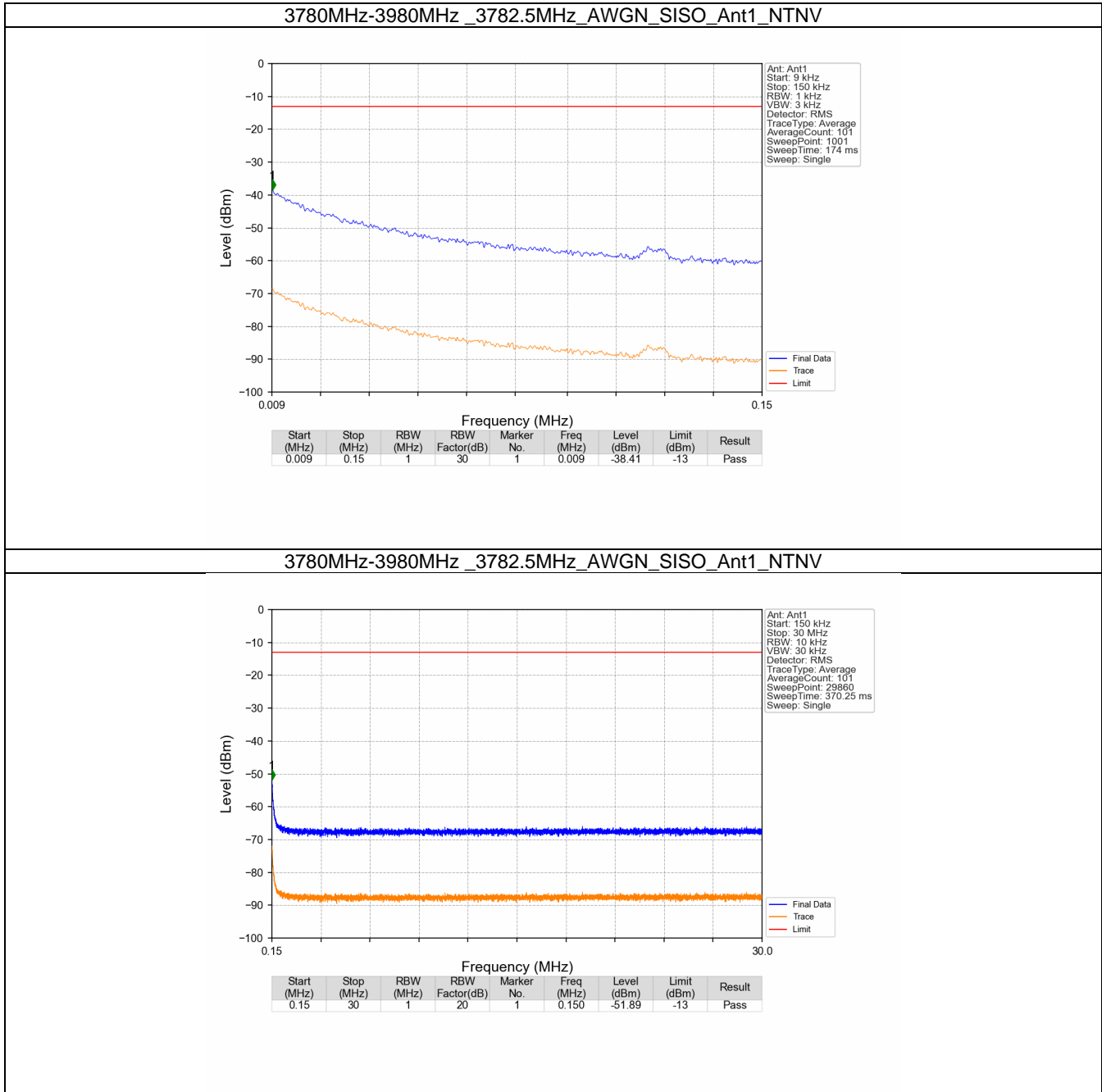
3780MHz-3980MHz / NTV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
AWGN	-0.4	3782.5	LCH	SISO	1	Refer To Test Graph		Pass
		3880	MCH	SISO	1	Refer To Test Graph		Pass
		3977.5	HCH	SISO	1	Refer To Test Graph		Pass
GMSK	-0.4	3780.1	LCH	SISO	1	Refer To Test Graph		Pass
		3880	MCH	SISO	1	Refer To Test Graph		Pass
		3979.9	HCH	SISO	1	Refer To Test Graph		Pass



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6.1.1 Test Graph



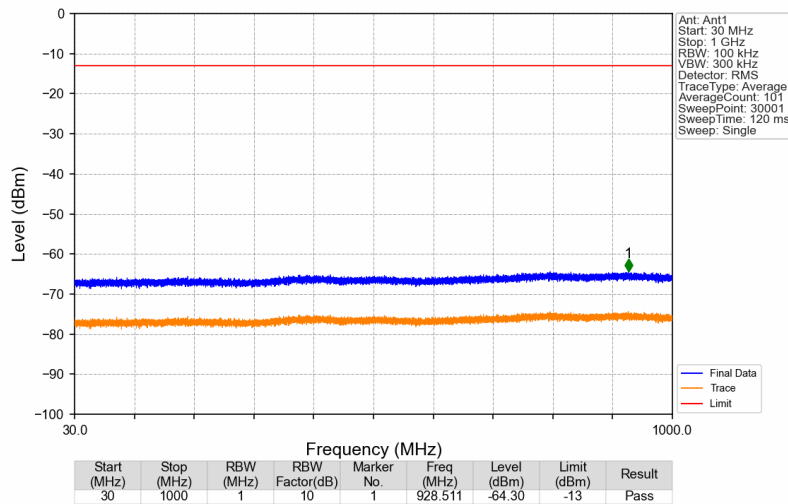
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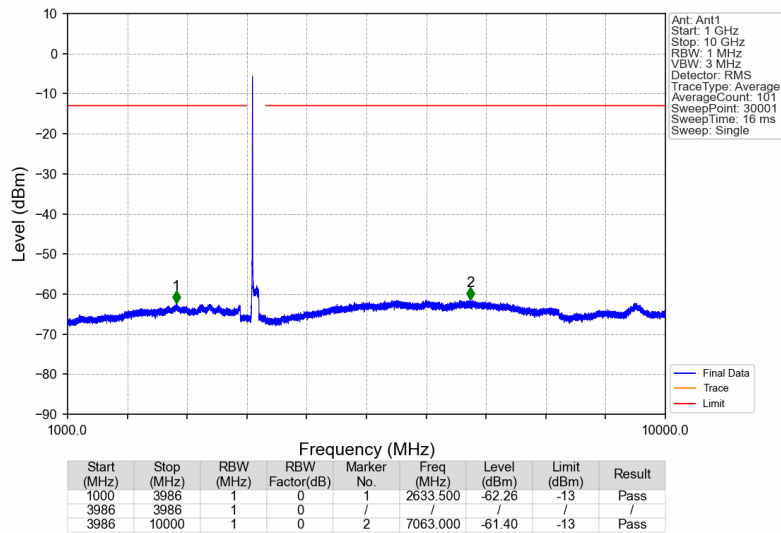
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3780MHz-3980MHz_3782.5MHz_AWGN_SISO_Ant1_NTNV



3780MHz-3980MHz_3782.5MHz_AWGN_SISO_Ant1_NTNV

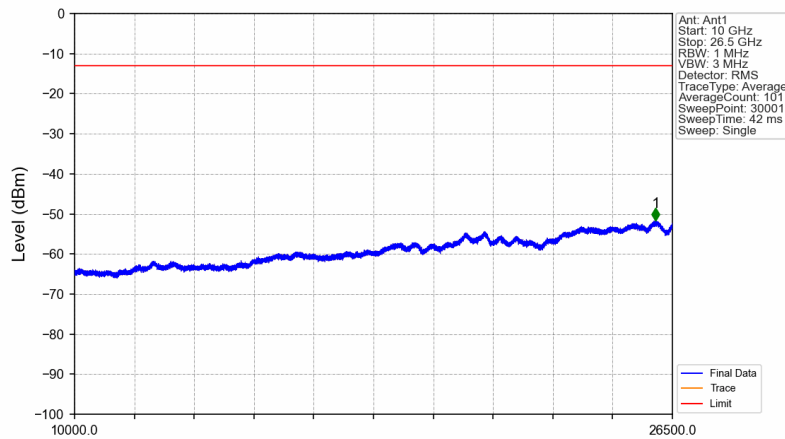


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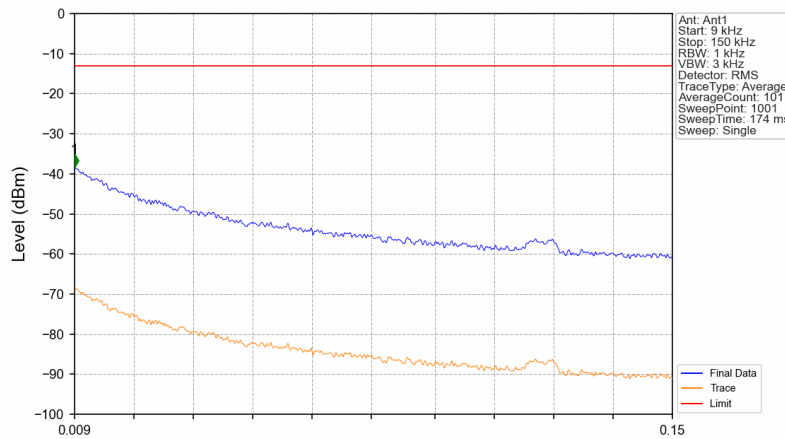
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3780MHz-3980MHz_3782.5MHz_AWGN_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	39800	1	0	1	26036.350	-51.73	-13	Pass

3780MHz-3980MHz_3880MHz_AWGN_SISO_Ant1_NTNV

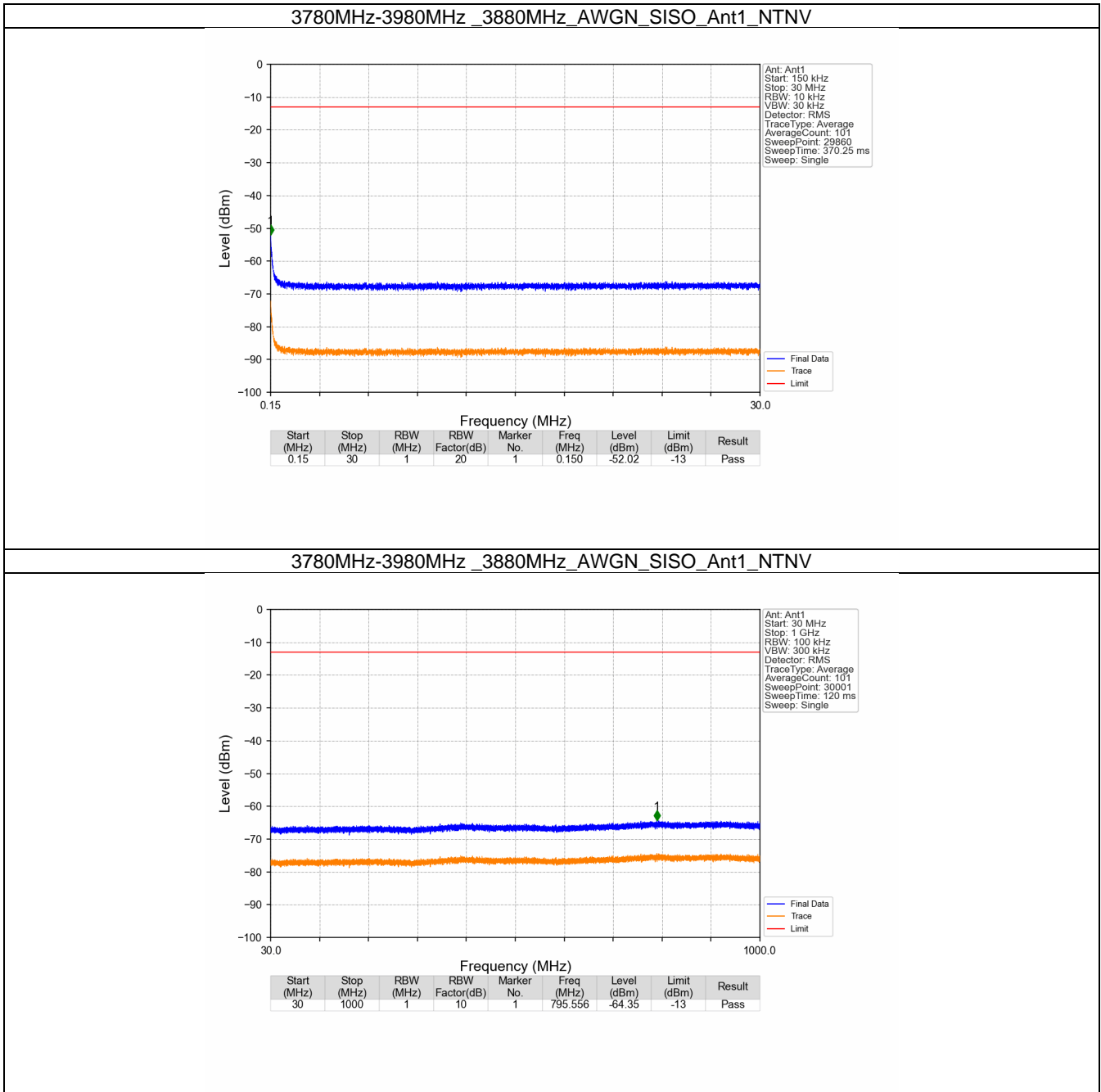


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	1	30	1	0.009	-38.32	-13	Pass



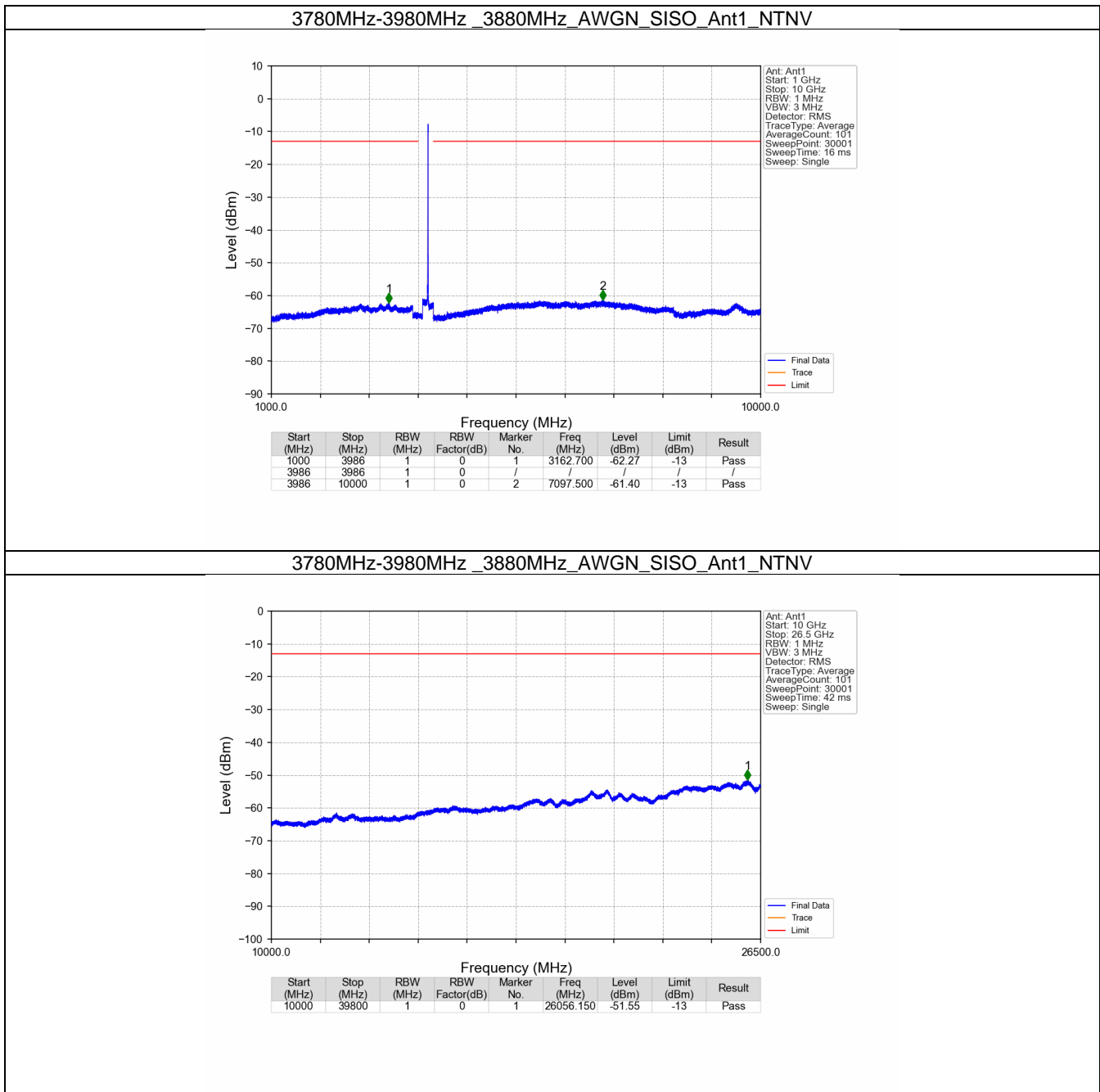
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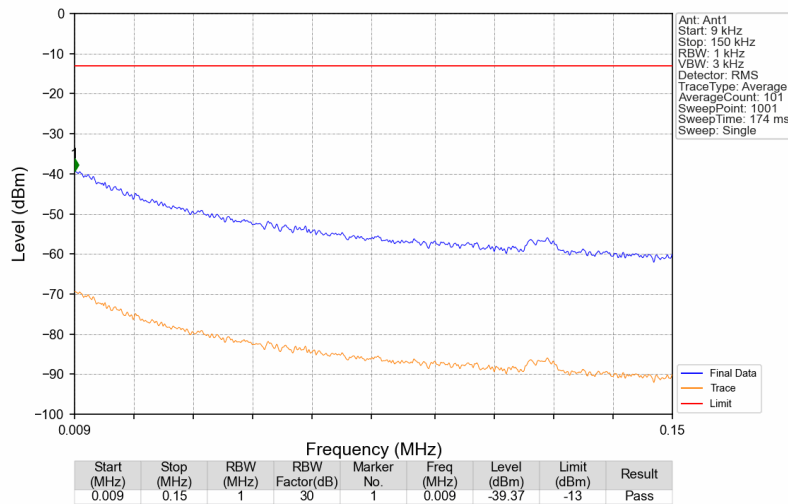
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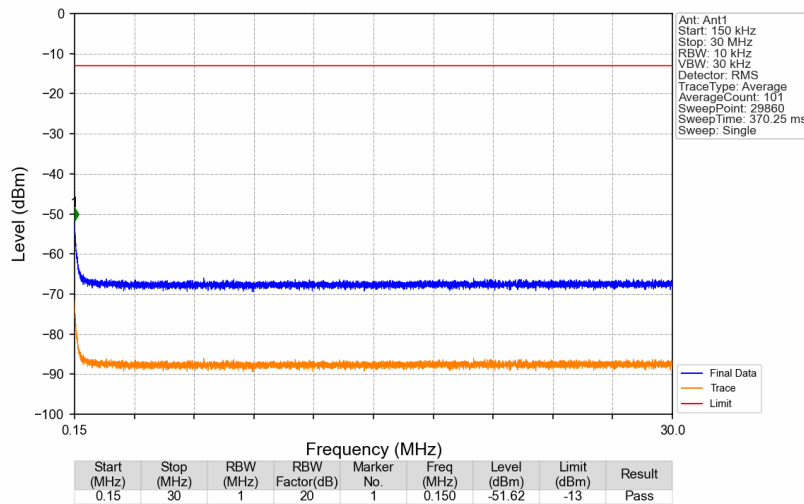
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3780MHz-3980MHz_3977.5MHz_AWGN_SISO_Ant1_NTNV



3780MHz-3980MHz_3977.5MHz_AWGN_SISO_Ant1_NTNV

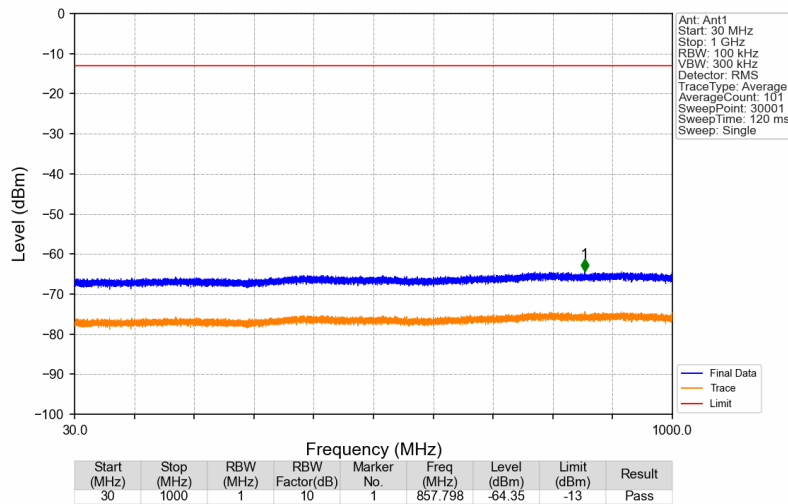


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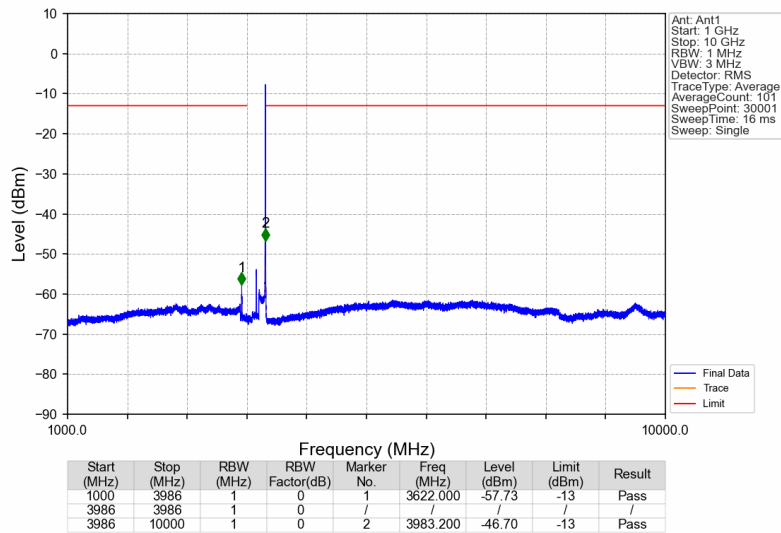
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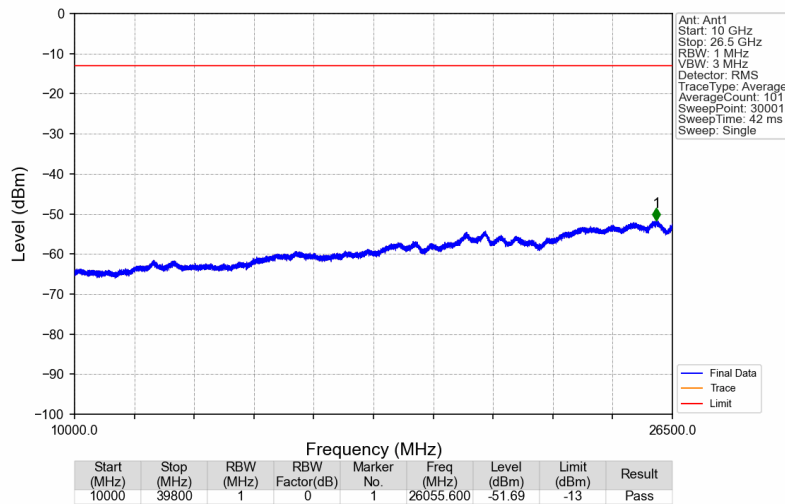


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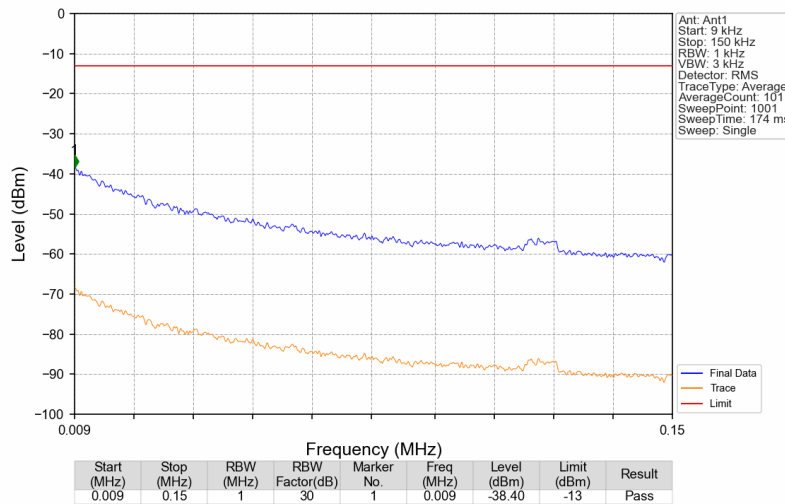
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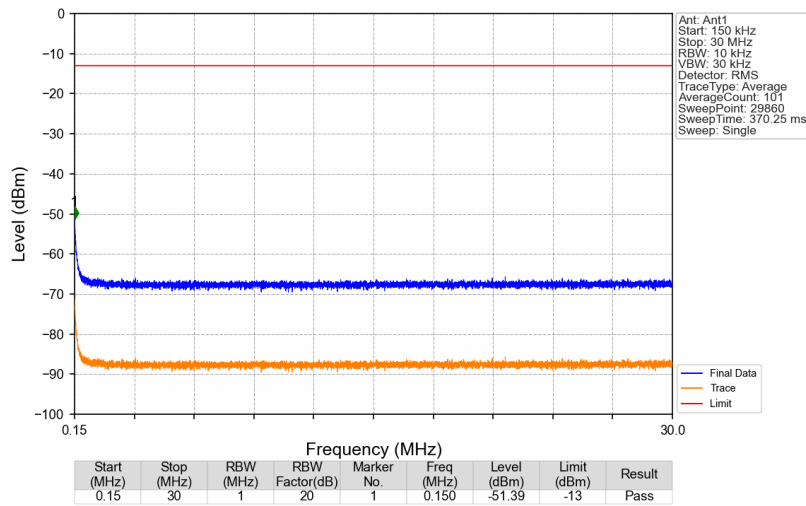


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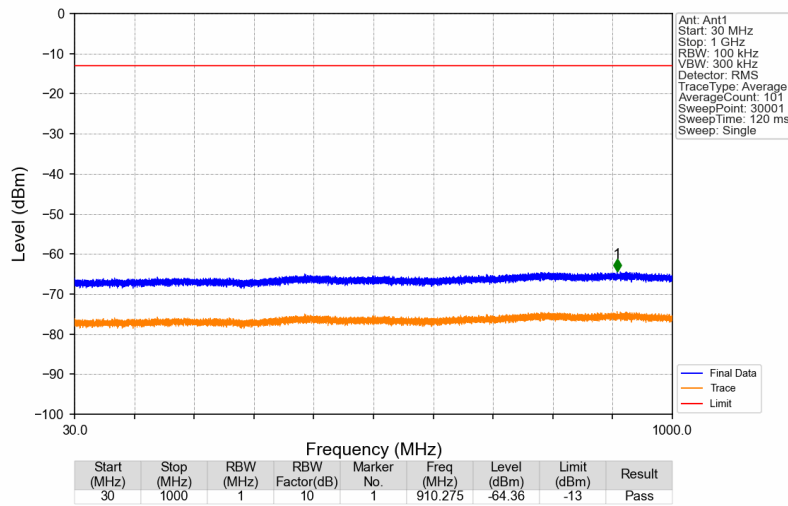
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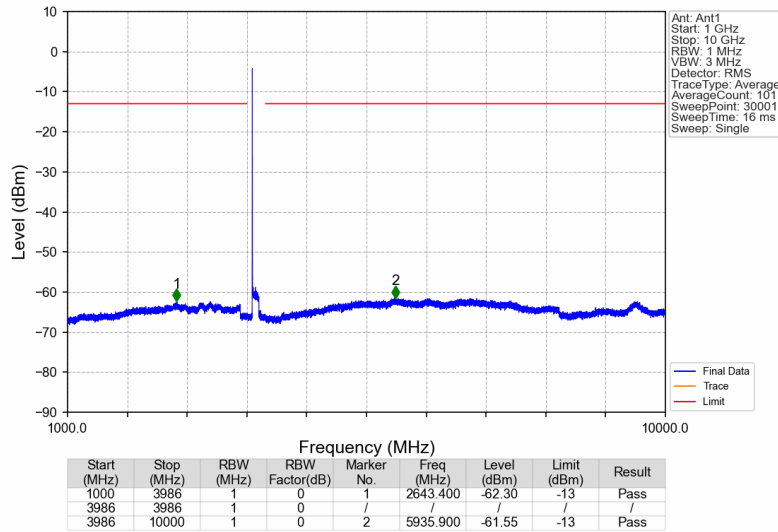
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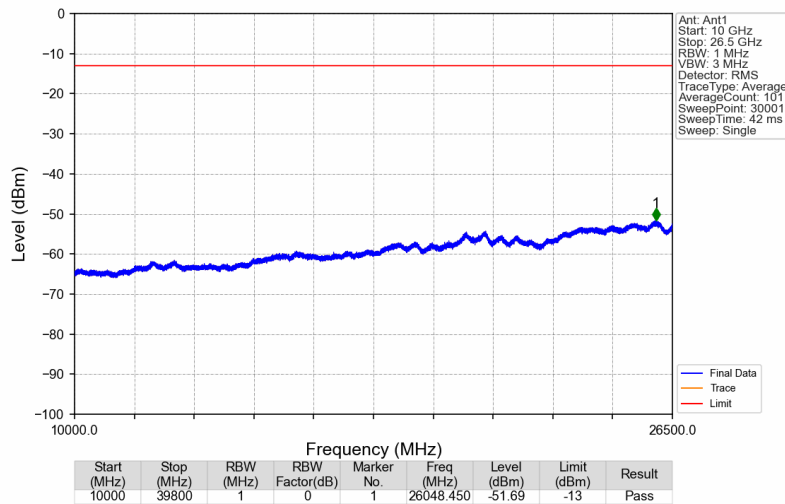
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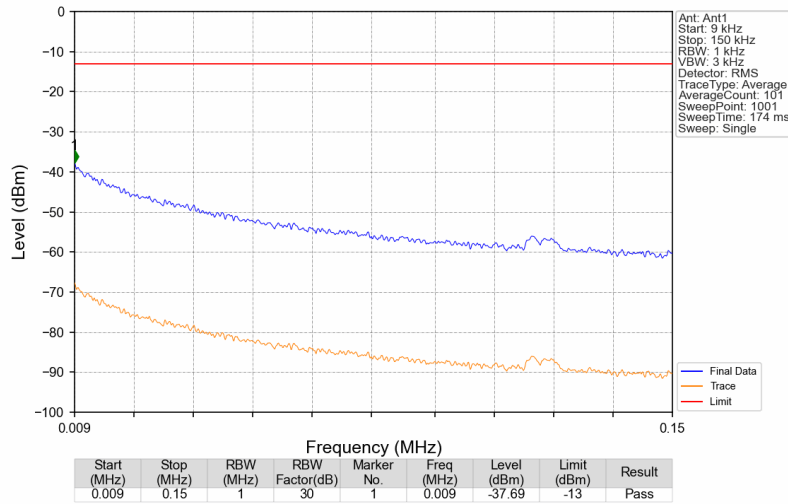


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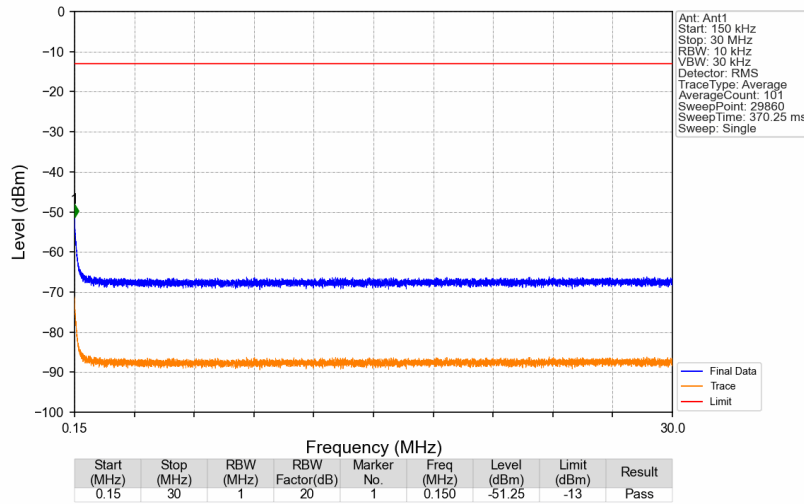
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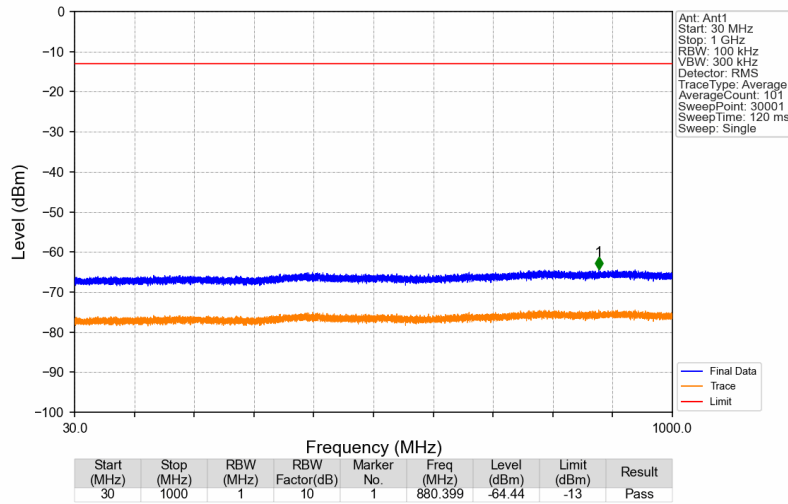


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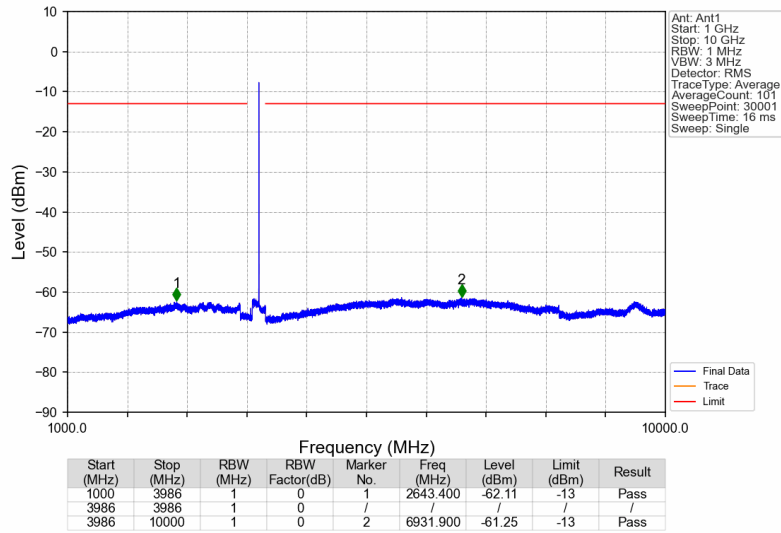
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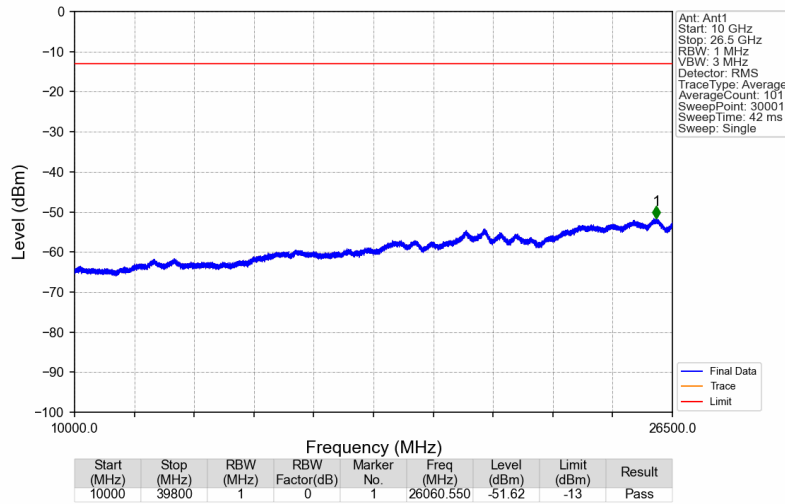


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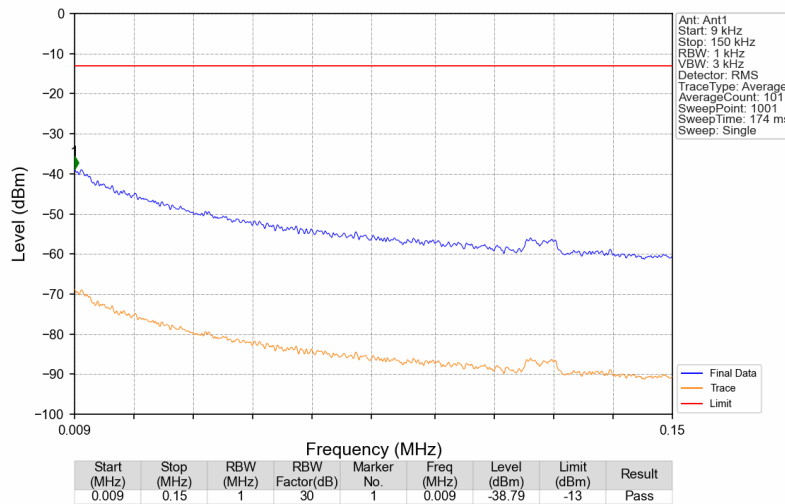
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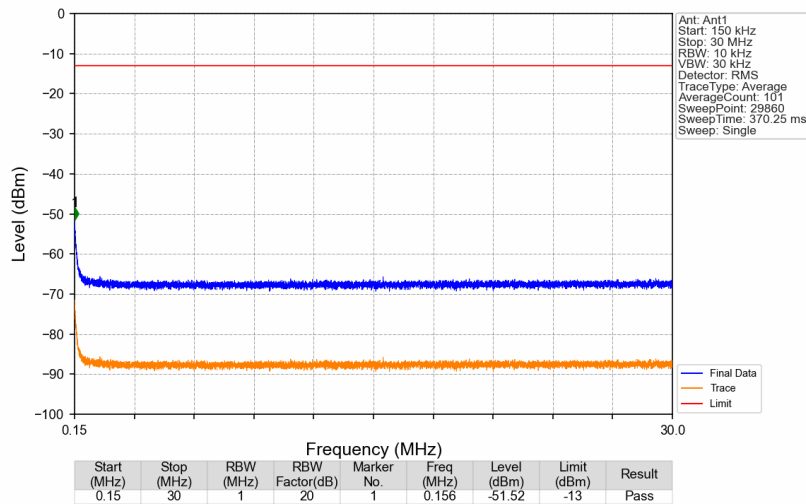


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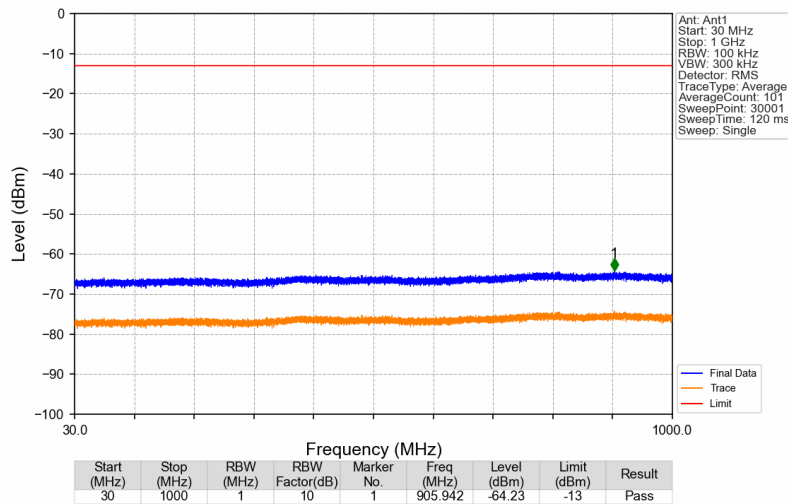
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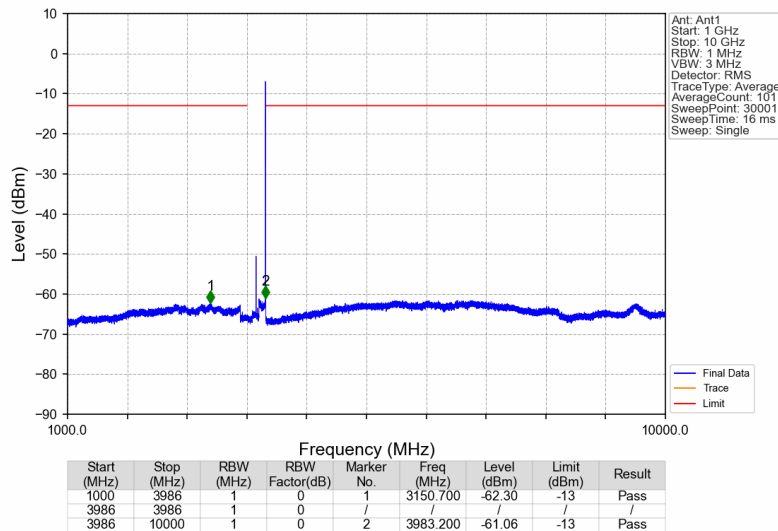
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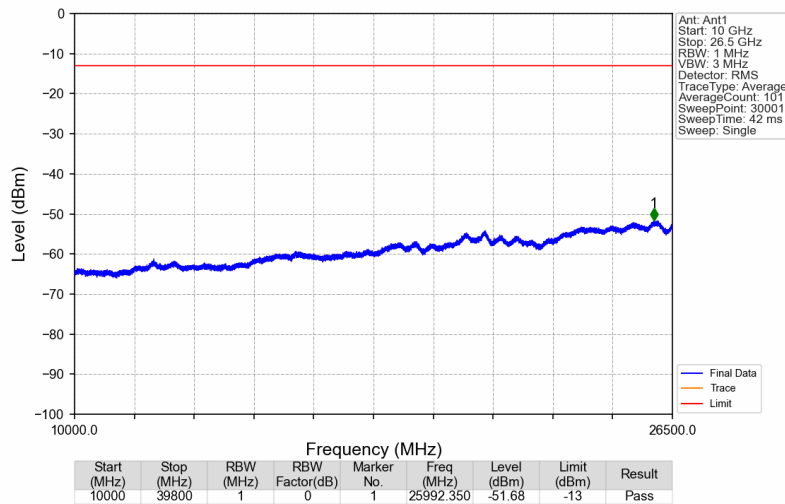
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7. Frequency stability measurements

7.1 3780MHz-3980MHz _Ant1

7.1.1 Test Result

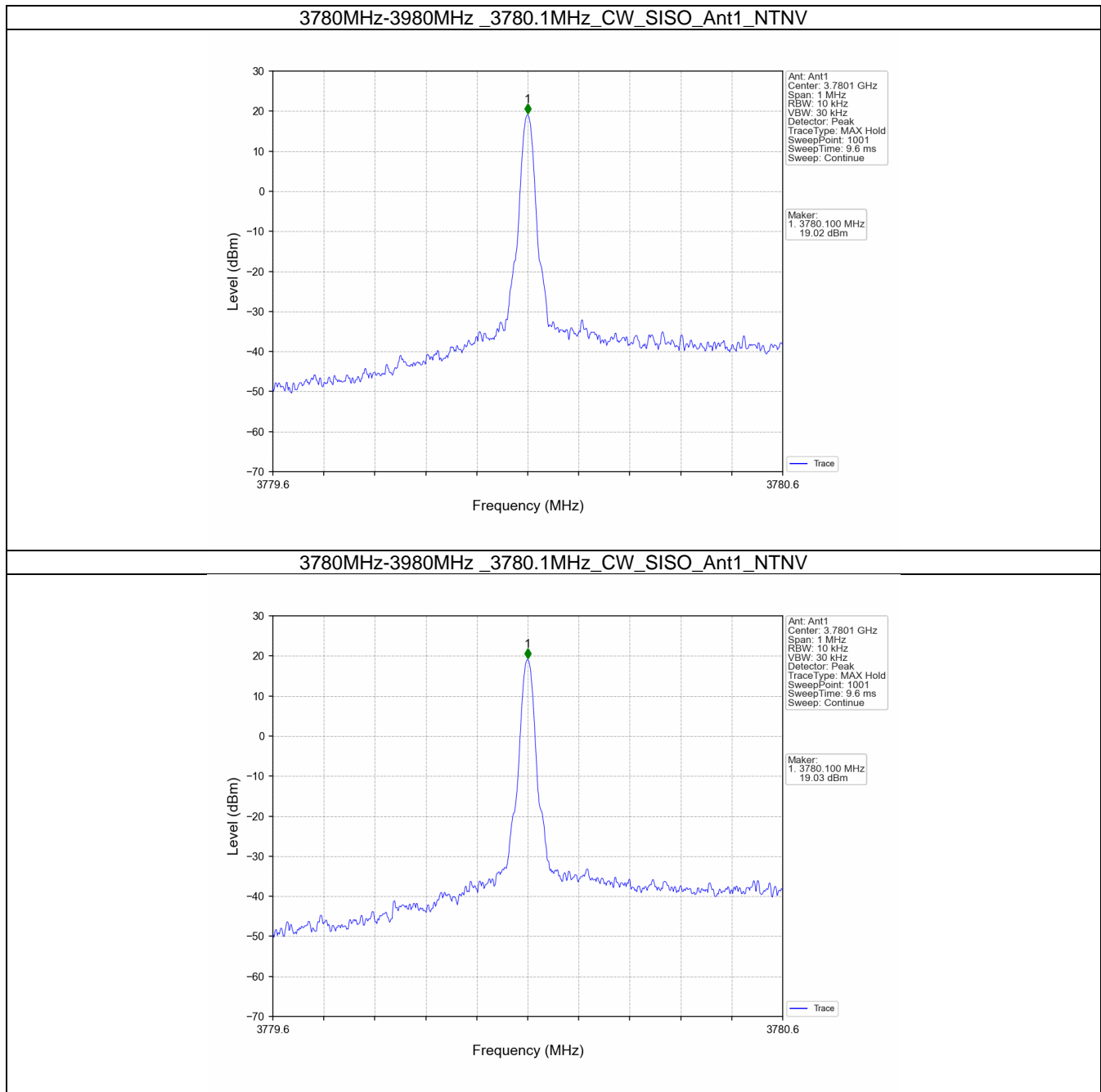
3780MHz-3980MHz / NTNV							
Signal			Temp (°C)	Voltage (VDC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict
Type	Level (dBm)	Frequency (MHz)					
CW	-0.4	3780.1	20	40.8	0.00	3780.10	Pass
				48	0.00	3780.10	Pass
				55.2	0.00	3780.10	Pass
			-10	48	0.00	3780.10	Pass
				0	0.00	3780.10	Pass
				10	0.00	3780.10	Pass
				30	0.00	3780.10	Pass
				40	0.00	3780.10	Pass
				45	0.00	3780.10	Pass
		3880	20	40.8	0.00	3880.00	Pass
				48	0.00	3880.00	Pass
				55.2	0.00	3880.00	Pass
			-10	48	0.00	3880.00	Pass
				0	0.00	3880.00	Pass
				10	0.00	3880.00	Pass
				30	0.00	3880.00	Pass
				40	0.00	3880.00	Pass
				45	0.00	3880.00	Pass
		3979.9	20	40.8	0.00	3979.90	Pass
				48	0.00	3979.90	Pass
				55.2	0.00	3979.90	Pass
			-10	48	0.00	3979.90	Pass
				0	0.00	3979.90	Pass
				10	0.00	3979.90	Pass
30	0.00			3979.90	Pass		
40	0.00			3979.90	Pass		
45	0.00			3979.90	Pass		



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7.1.2 Test Graph



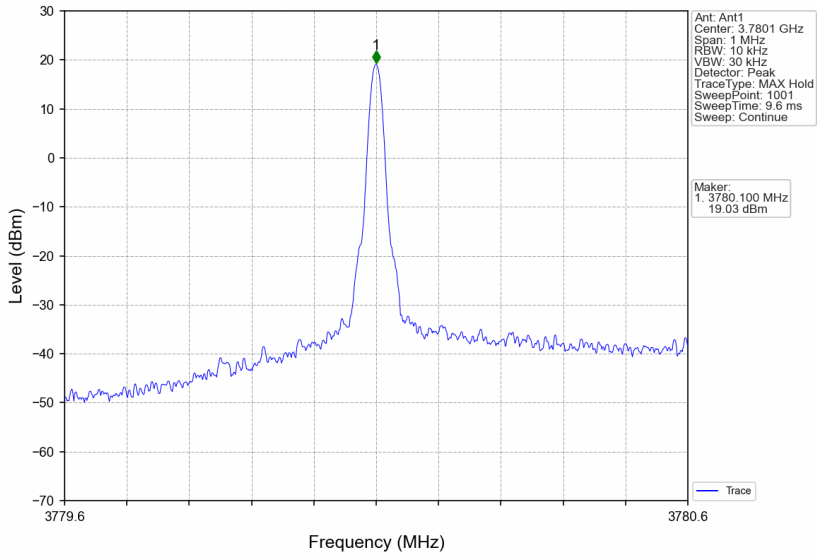
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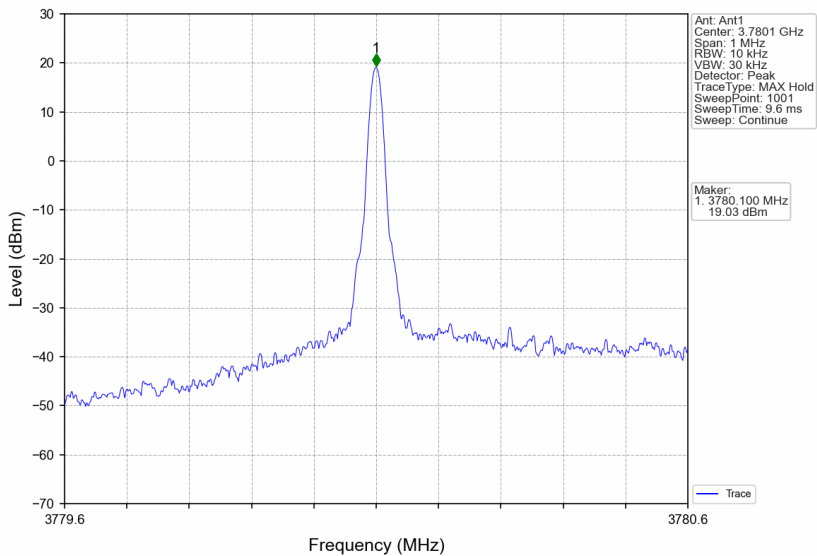
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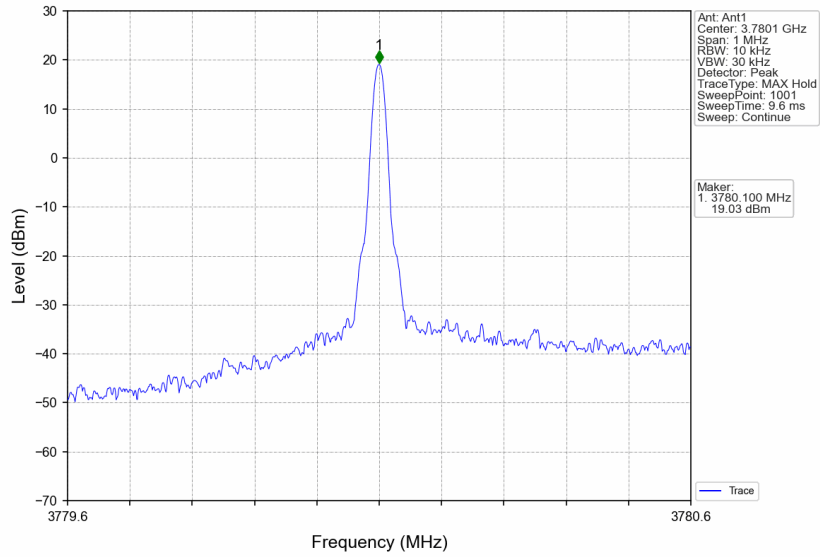
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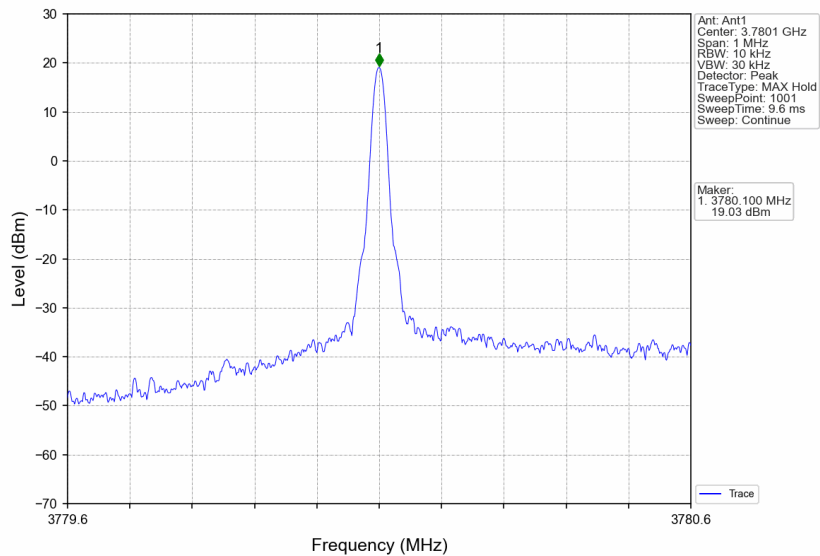
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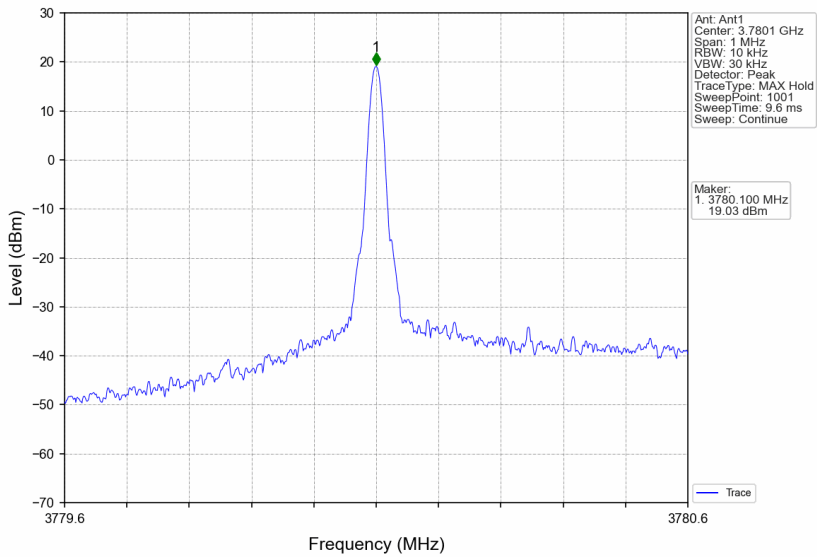
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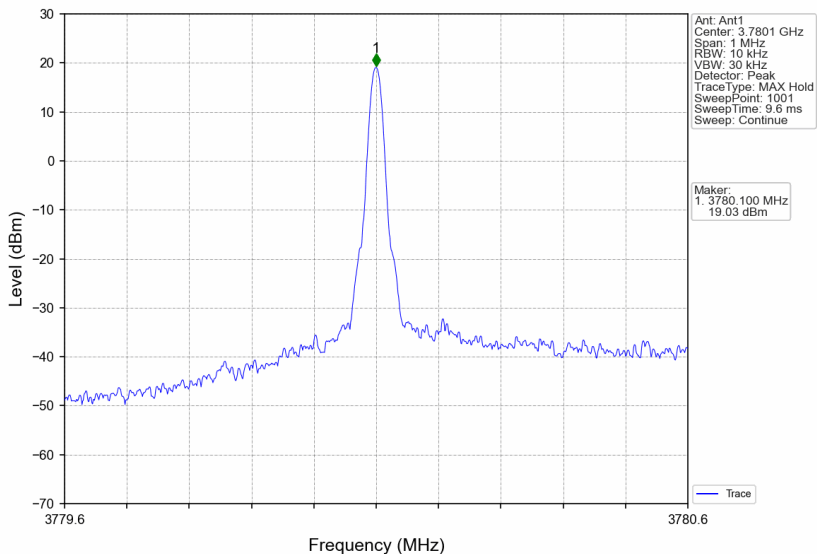
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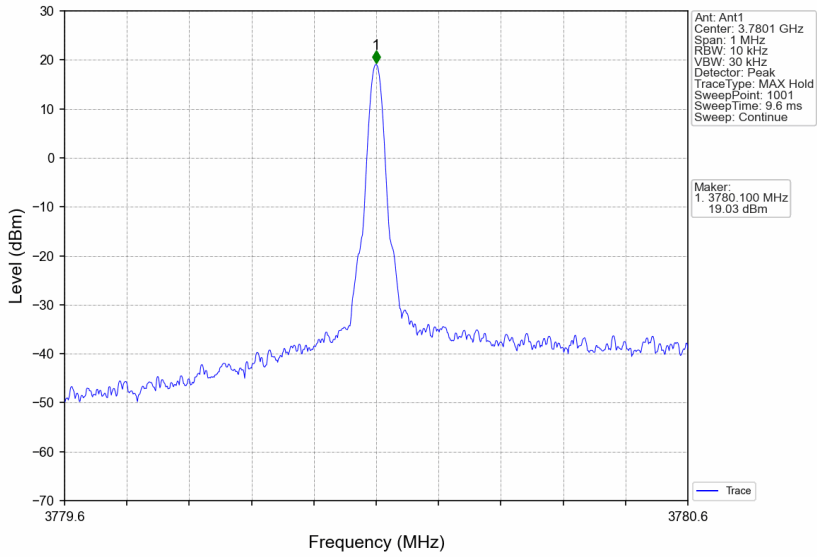
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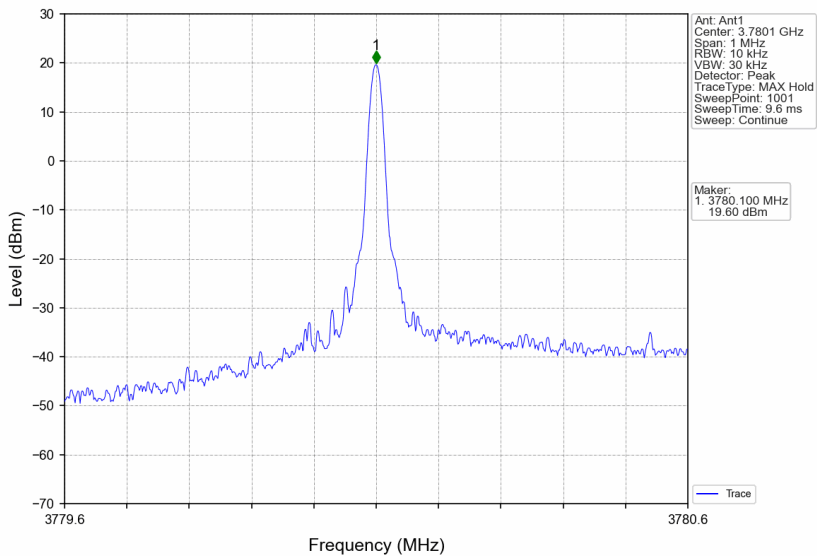
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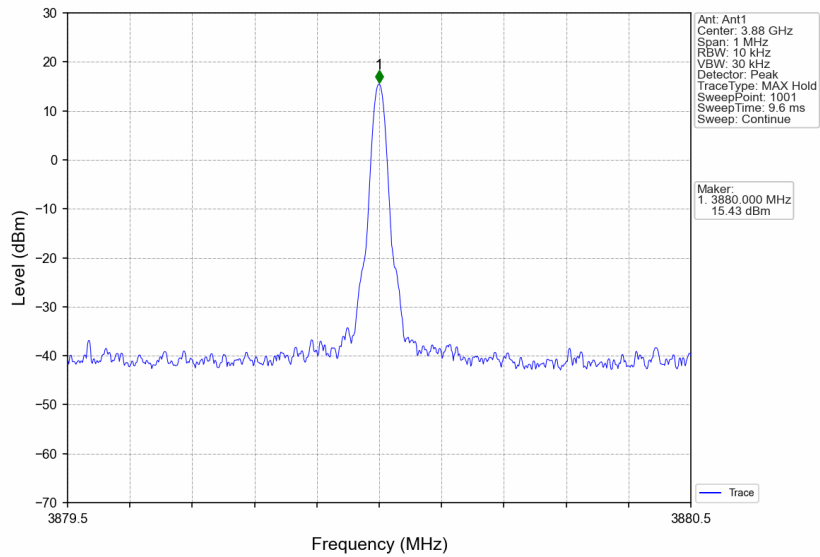
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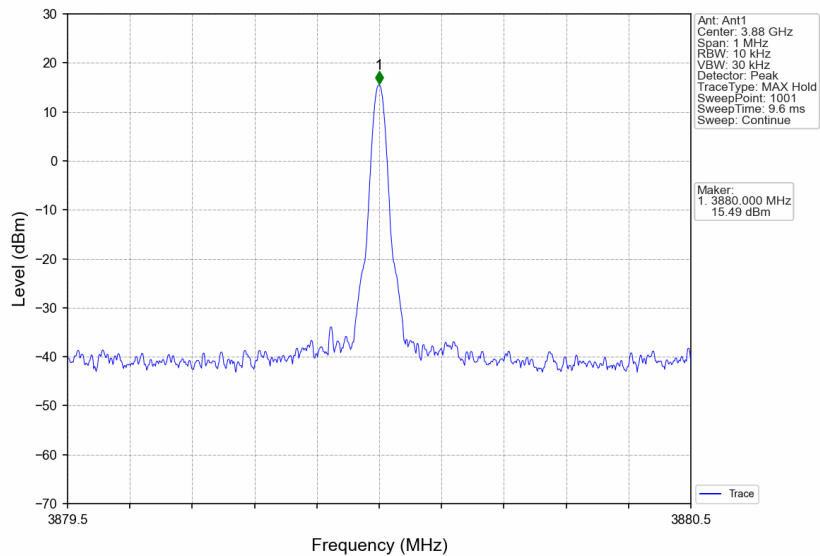
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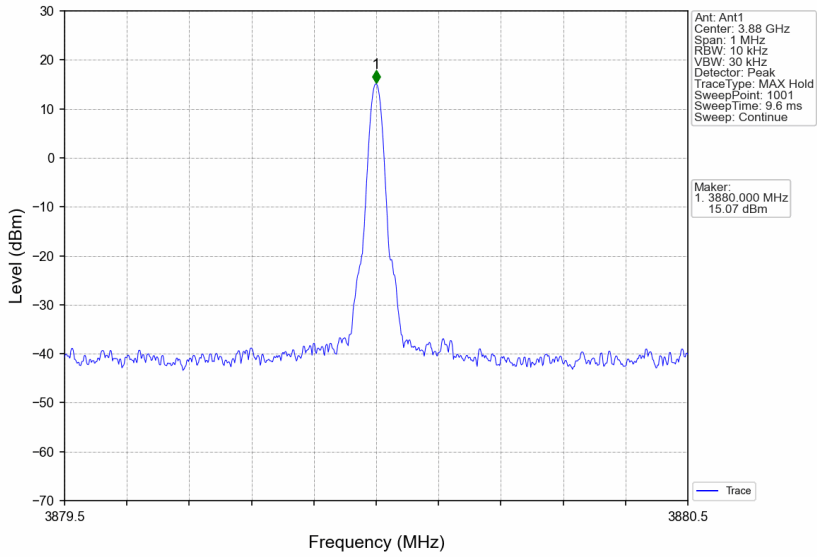
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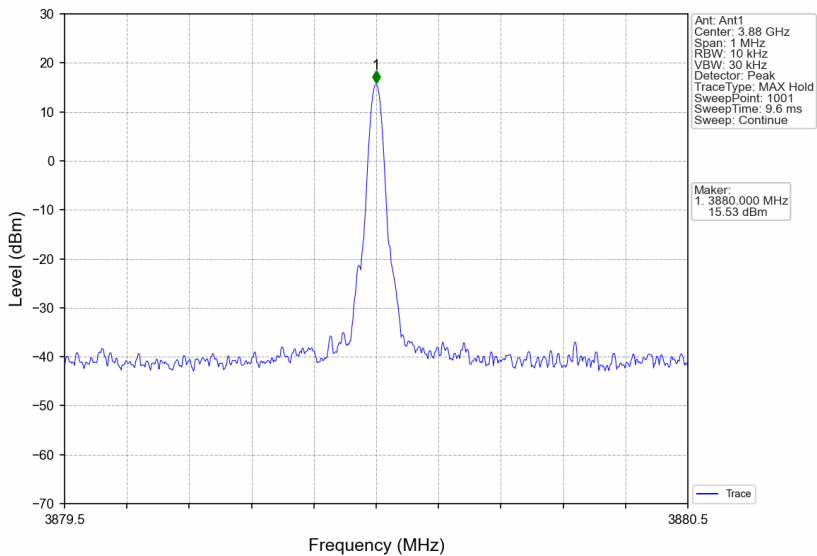
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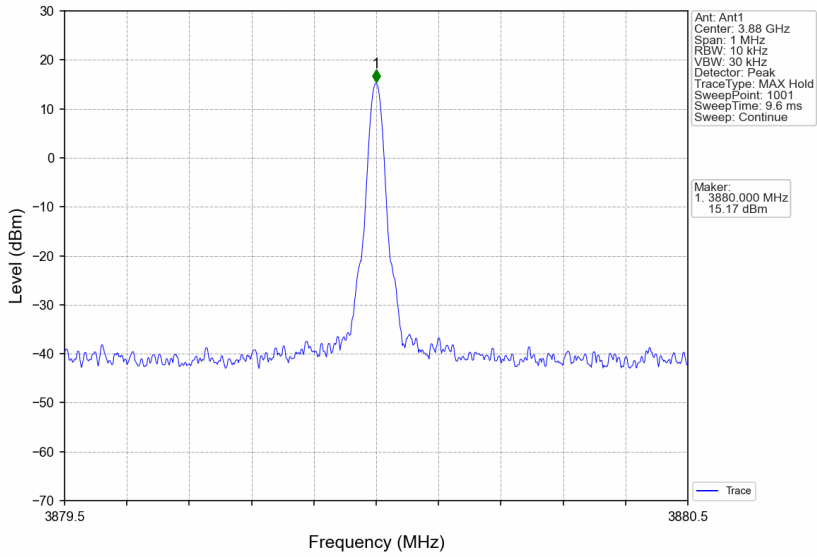


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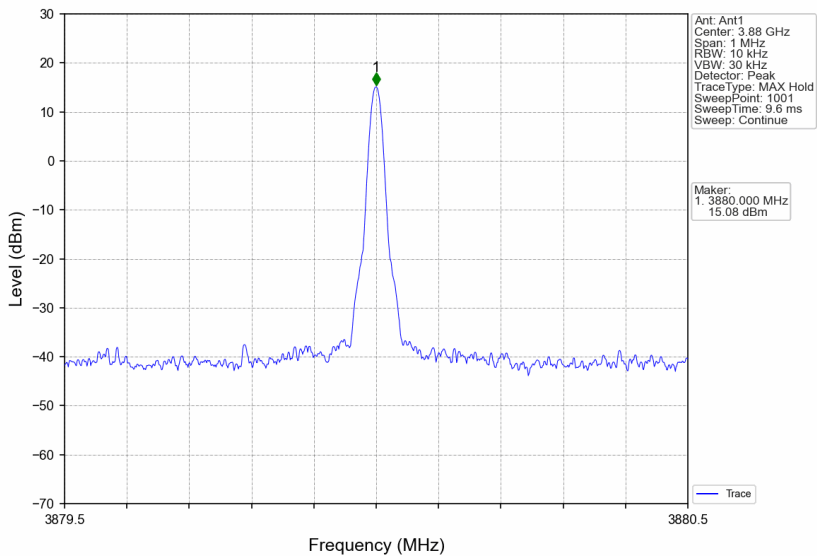
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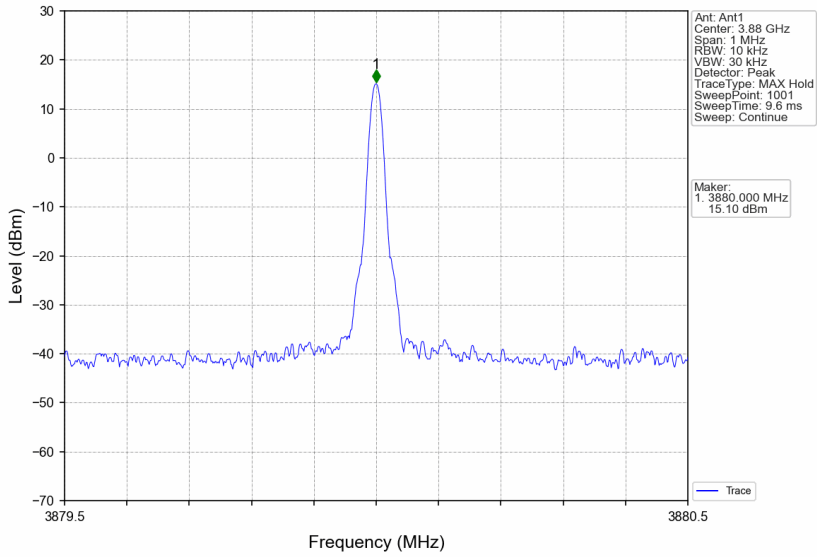


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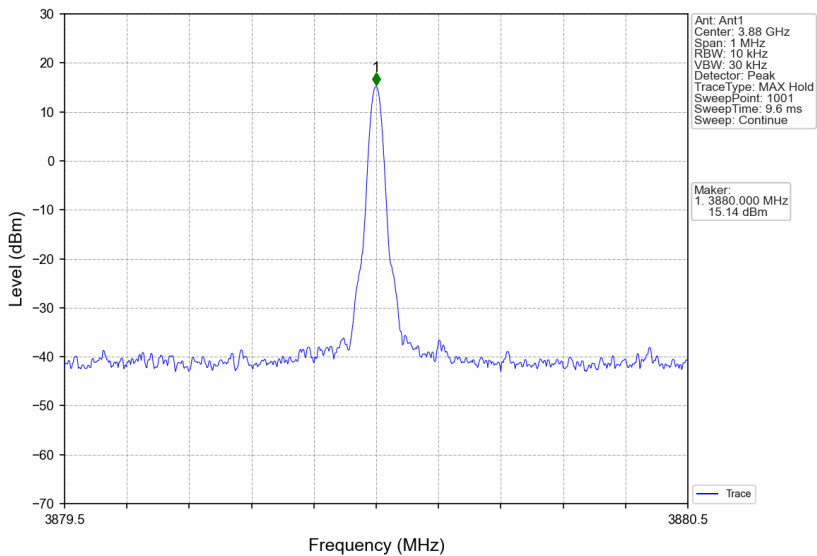
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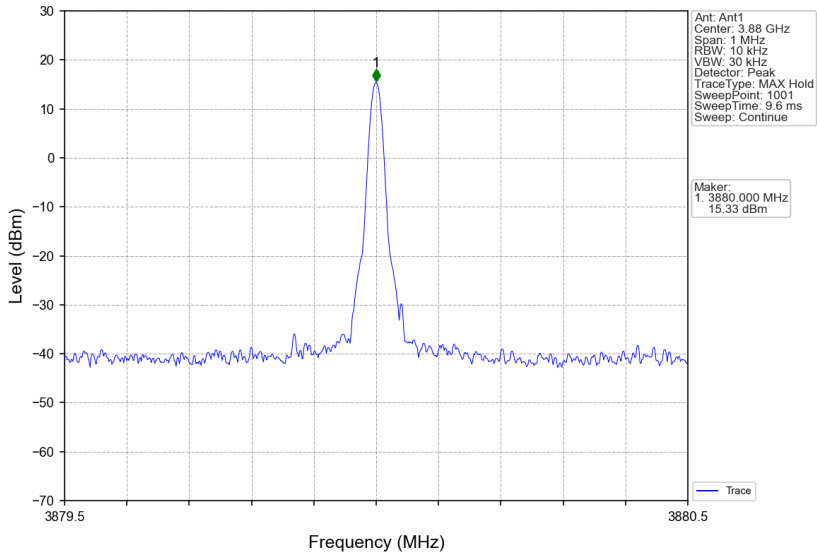
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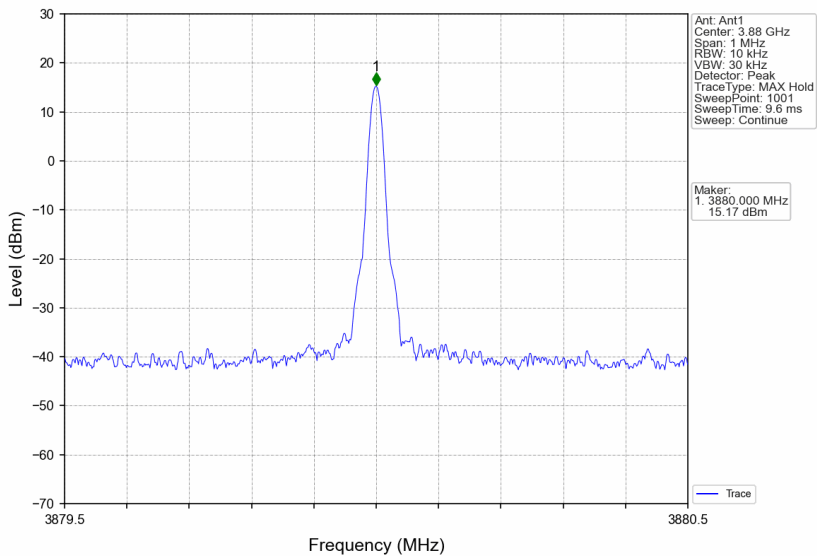
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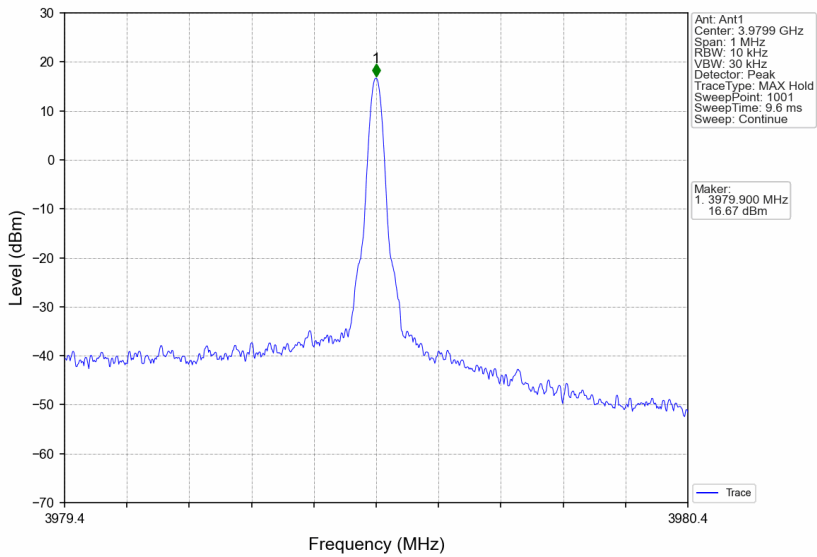
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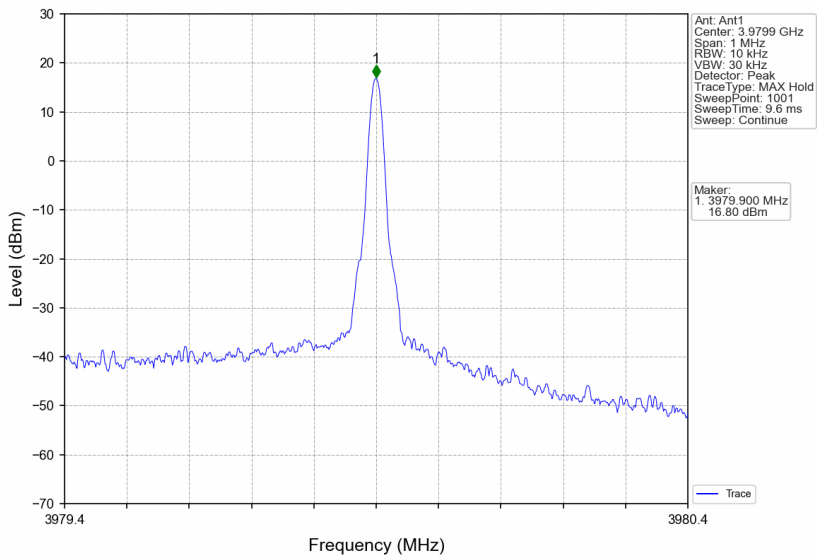
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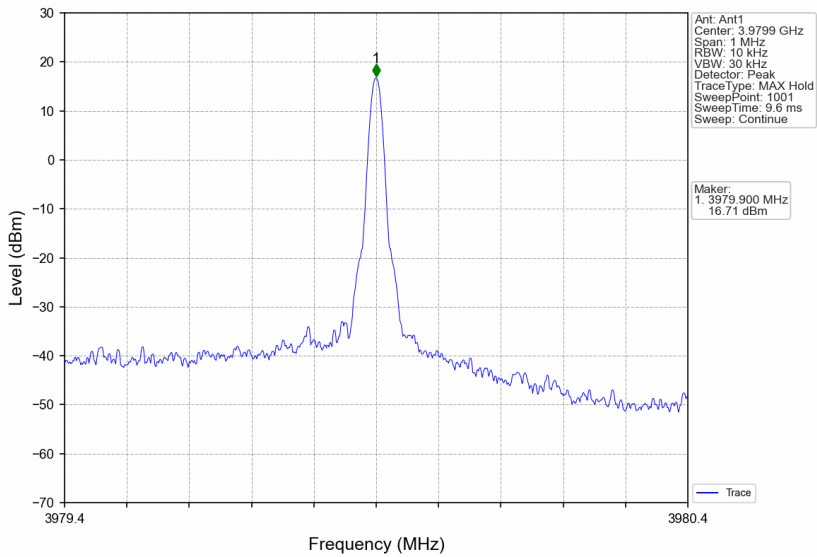
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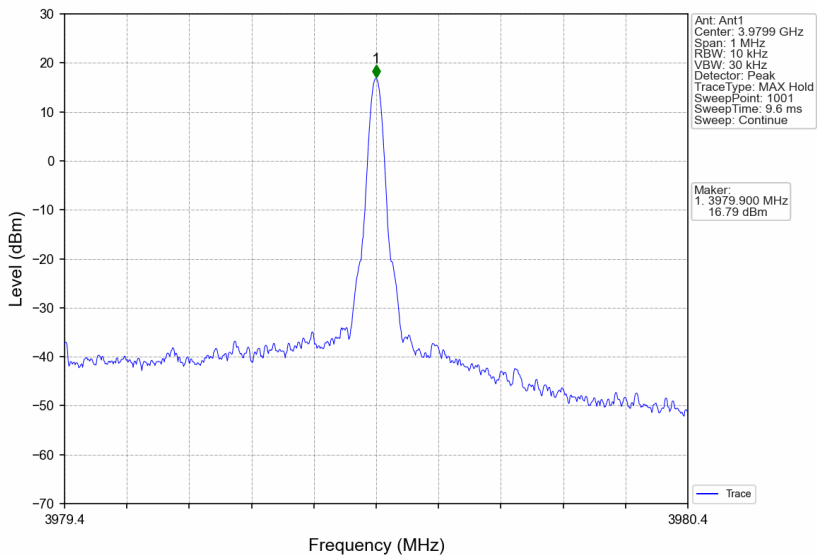
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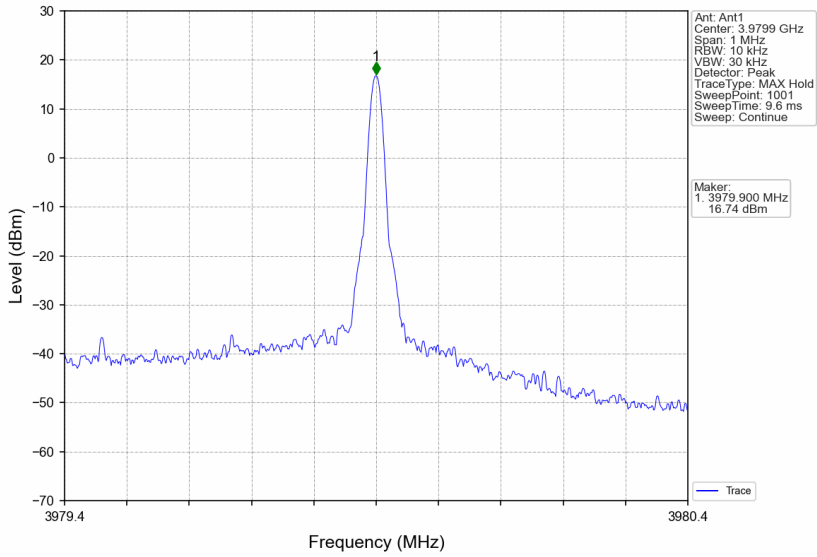
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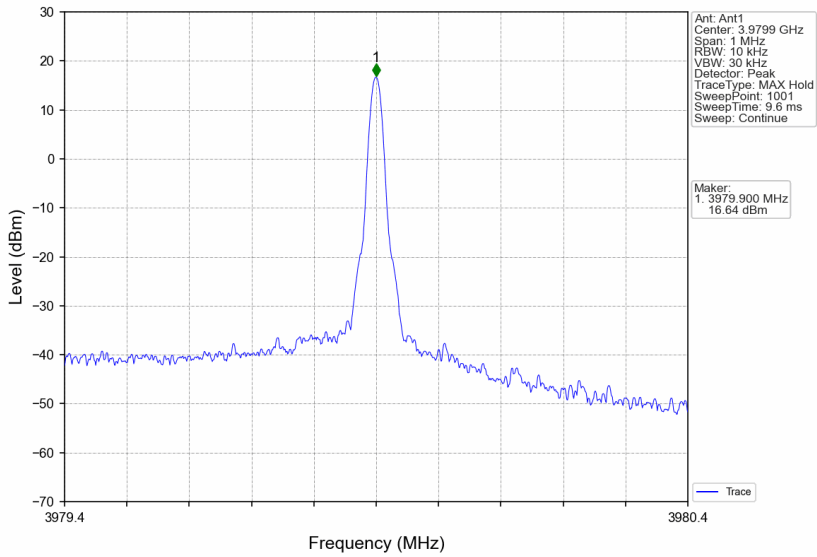
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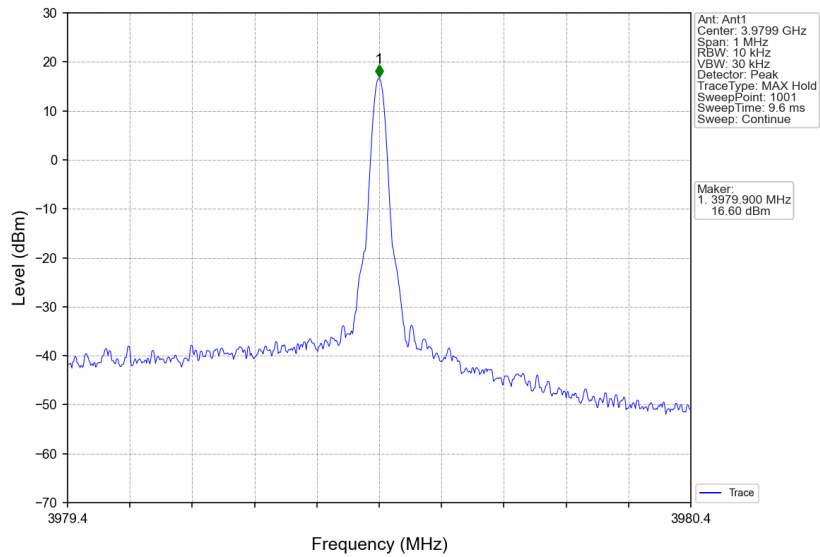
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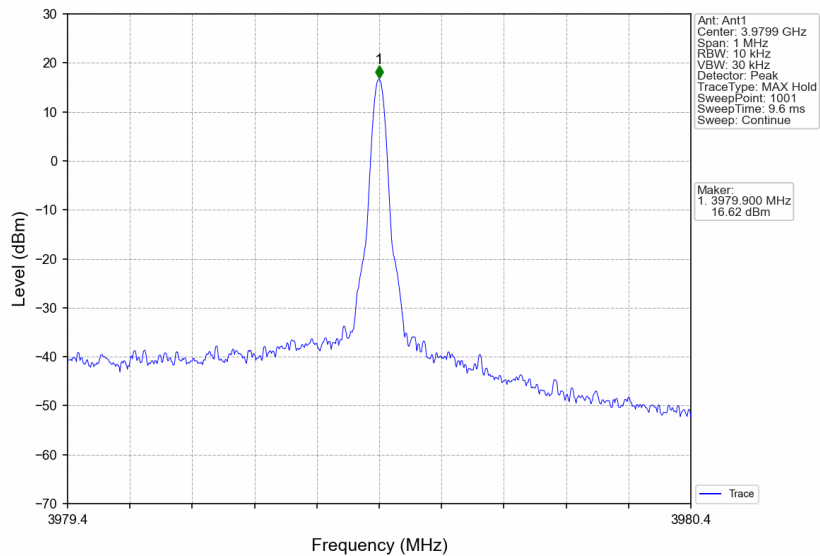
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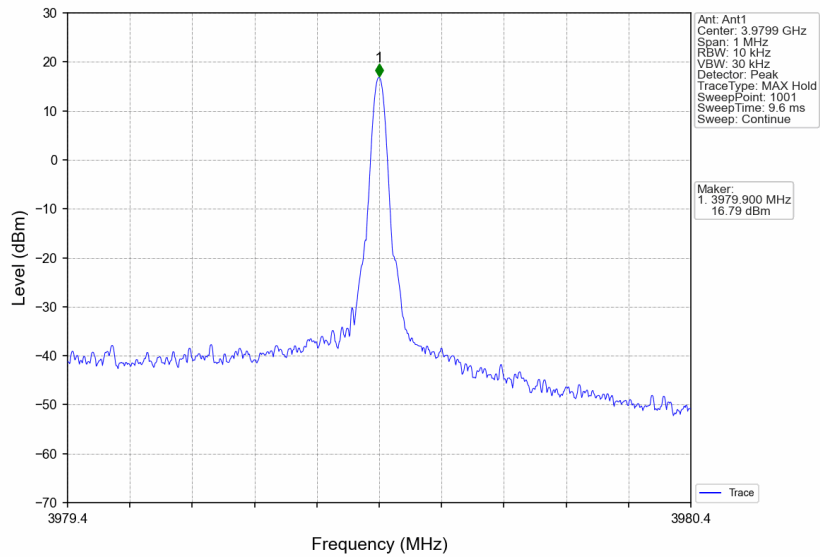
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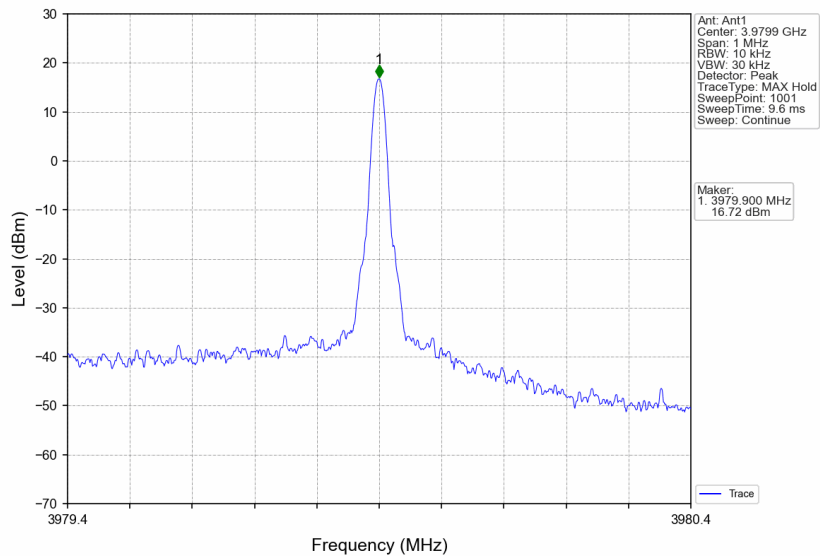
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