

Appendix I for KSCR2206001043AT-3450MHz-3550MHz

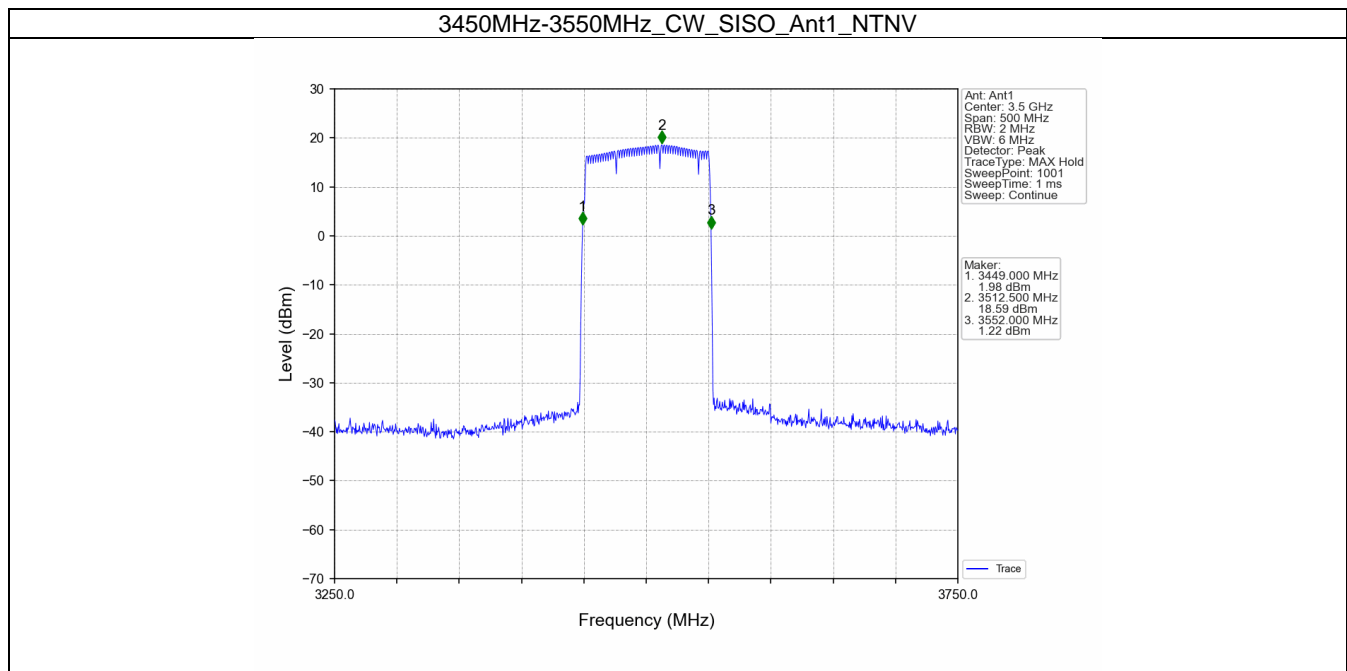
1. Out of band rejection

1.1 3450MHz-3550MHz

1.1.1 Test Result

3450MHz-3550MHz / NTV							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	3250 - 3750	SISO	1	3512.500	3449.000	3552.000	Pass

1.1.2 Test Graph



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2. AGC threshold

2.1 3450MHz-3550MHz

2.1.1 Test Result

3450MHz-3550MHz / NTNV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
AWGN	3512.5	SISO	1	-0.02	Pass
GMSK	3512.5	SISO	1	0.98	Pass

3. Input-versus-output signal comparison

3.1 3450MHz-3550MHz_OBW

3.1.1 Test Result

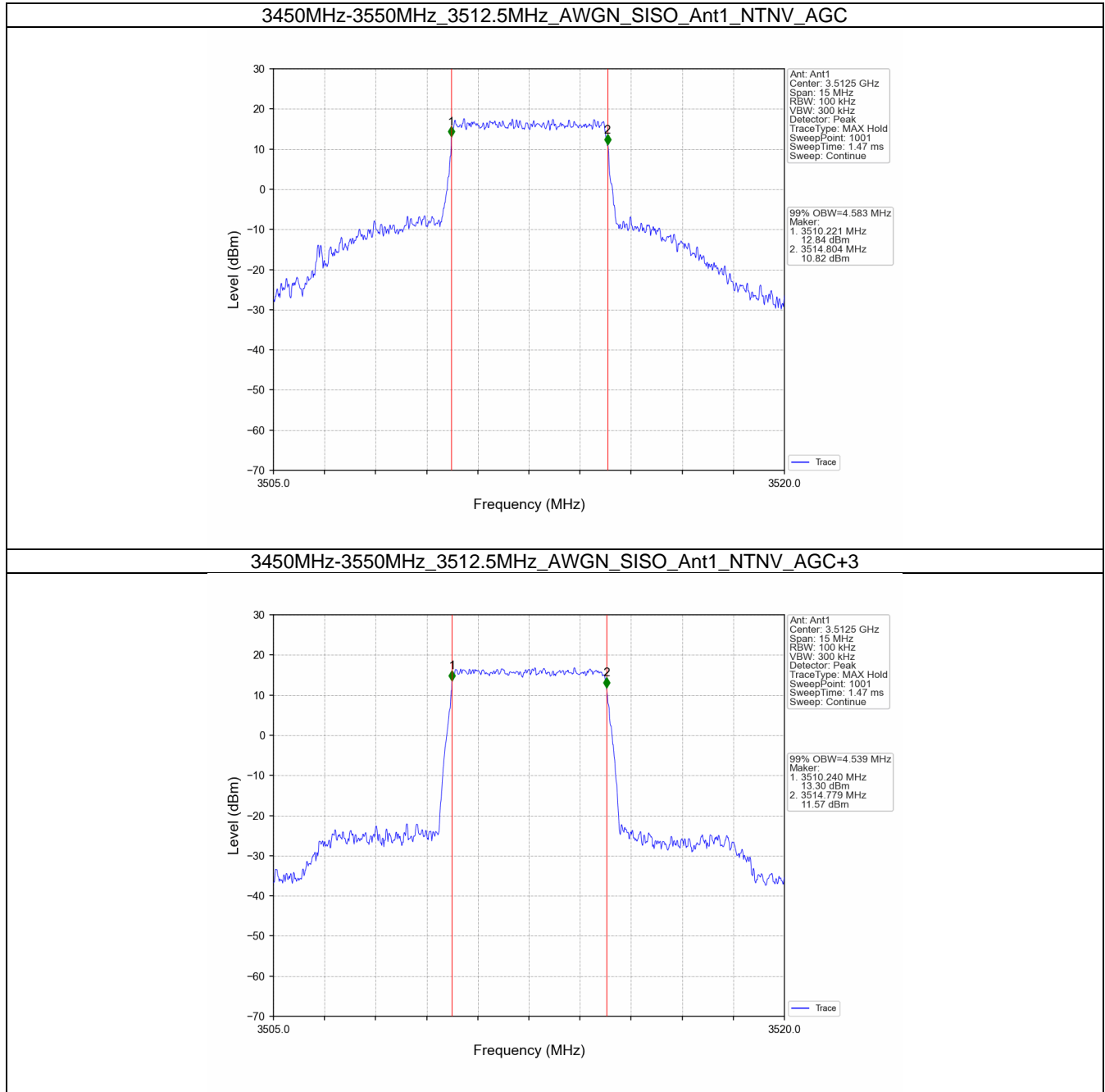
3450MHz-3550MHz / NTNV							
Type	Signal		TX Type	ANT	99% OBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	2.98	3512.5	SISO	1	4.583	4.532	Pass
	-0.02	3512.5	SISO	1	4.539	4.531	Pass
GMSK	3.98	3512.5	SISO	1	0.245	0.245	Pass
	0.98	3512.5	SISO	1	0.245	0.244	Pass



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3.1.2 Test Graph



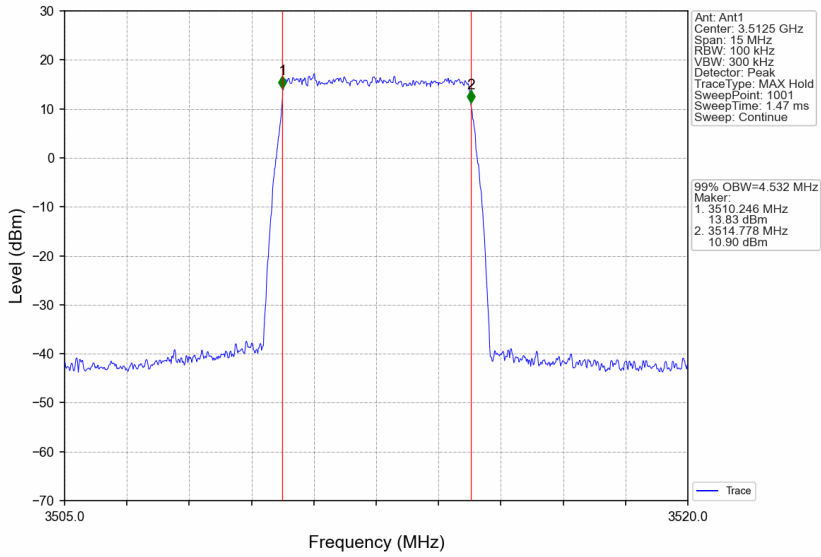
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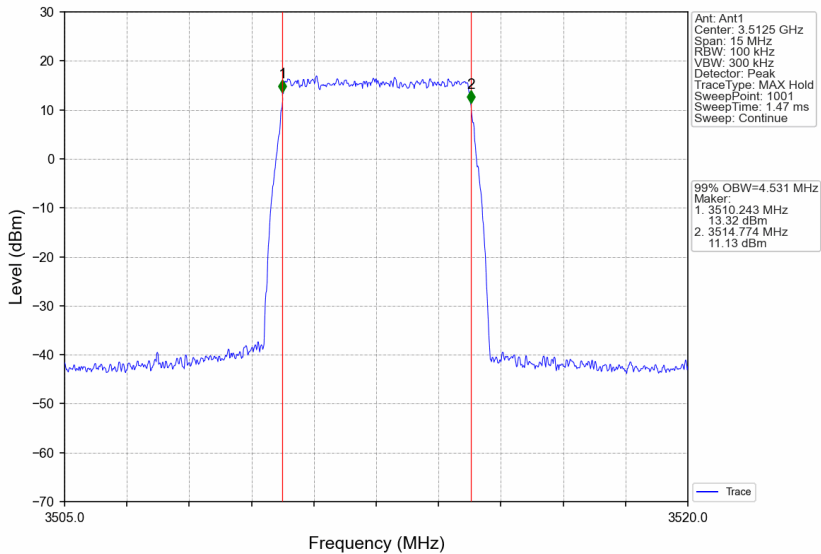
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3450MHz-3550MHz_3512.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



3450MHz-3550MHz_3512.5MHz_AWGN_SISO_Ant1_NTNV_AGC

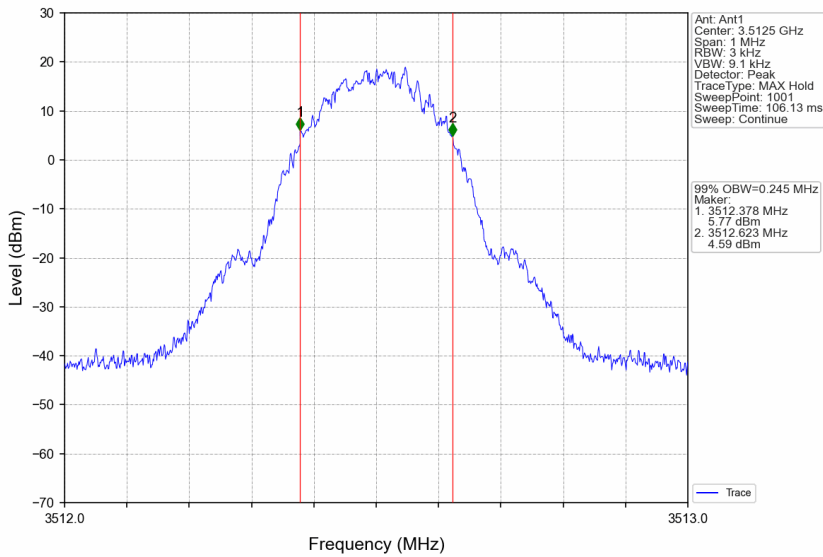


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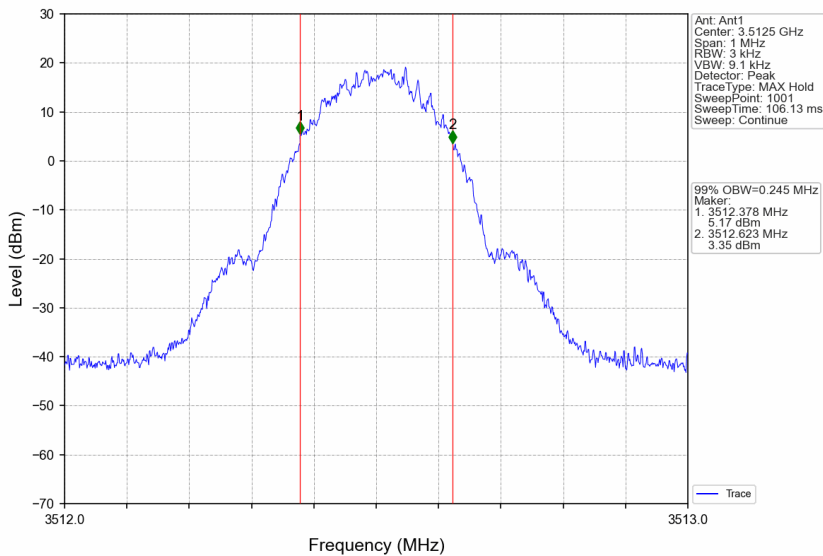
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3450MHz-3550MHz_3512.5MHz_GMSK_SISO_Ant1_NTNV_AGC



3450MHz-3550MHz_3512.5MHz_GMSK_SISO_Ant1_NTNV_AGC+3

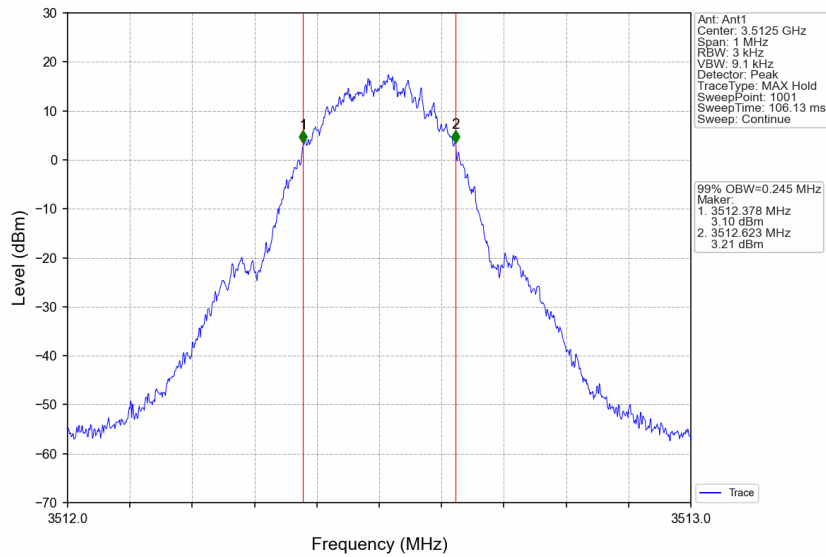


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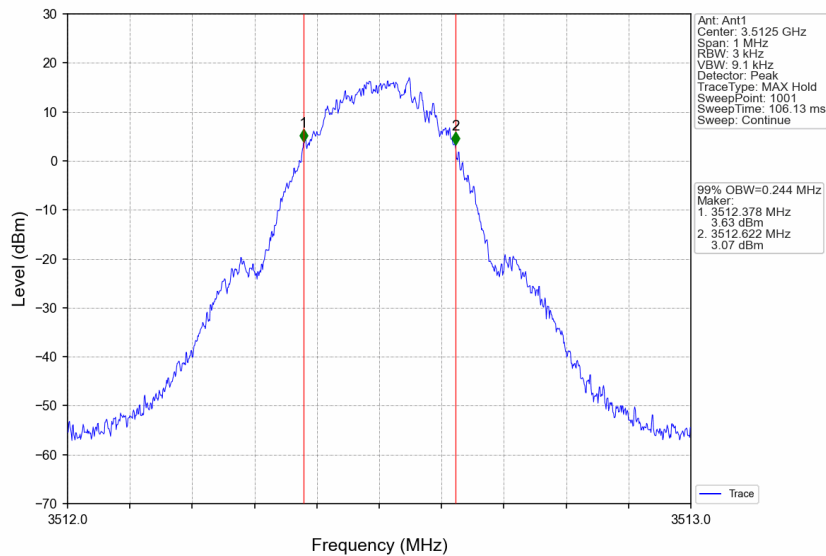
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3450MHz-3550MHz_3512.5MHz_GMSK_SISO_Ant1_NTNV_AGC+3



3450MHz-3550MHz_3512.5MHz_GMSK_SISO_Ant1_NTNV_AGC



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3.2 3450MHz-3550MHz_EBW

3.2.1 Test Result

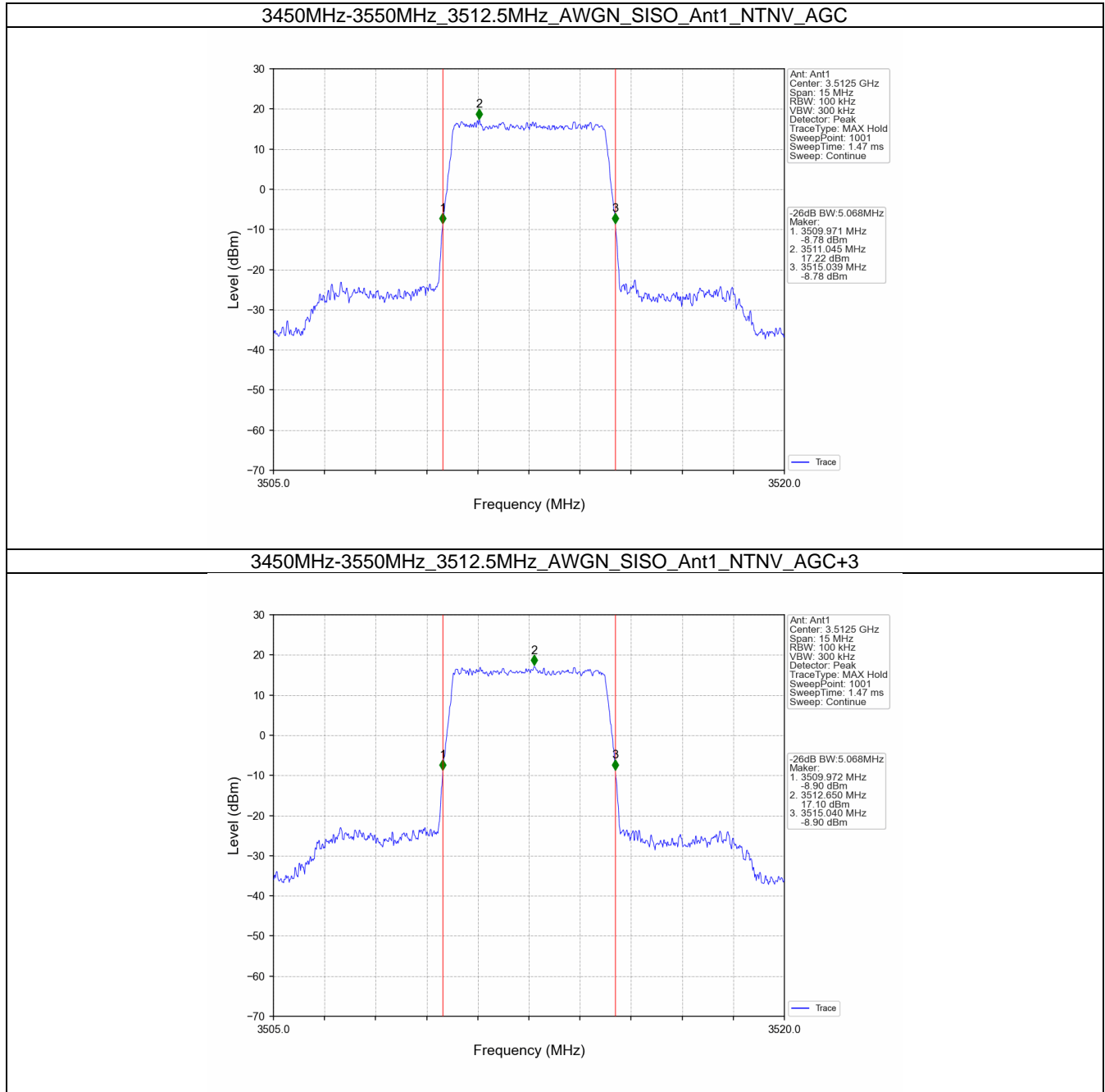
3450MHz-3550MHz / NTN							
Type	Signal		TX Type	ANT	26dB EBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	2.98	3512.5	SISO	1	5.068	5.049	Pass
	-0.02	3512.5	SISO	1	5.068	5.063	Pass
GMSK	3.98	3512.5	SISO	1	0.316	0.314	Pass
	0.98	3512.5	SISO	1	0.313	0.316	Pass



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3.2.2 Test Graph



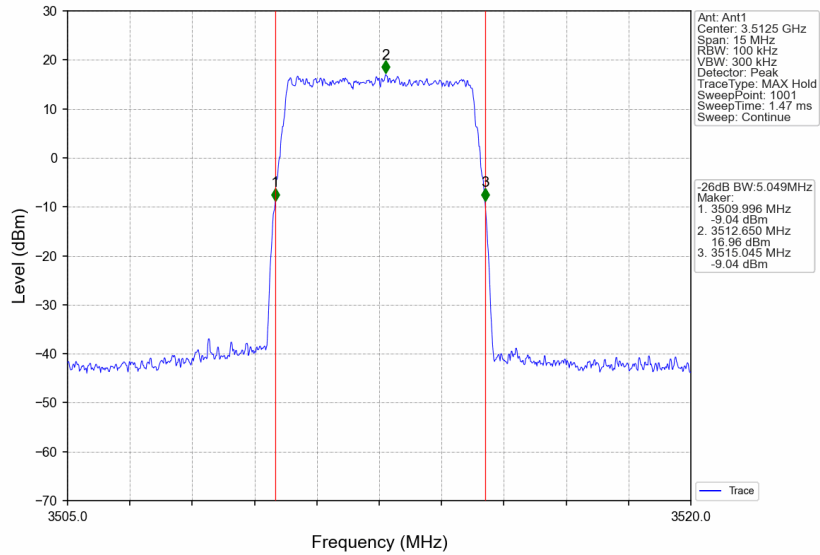
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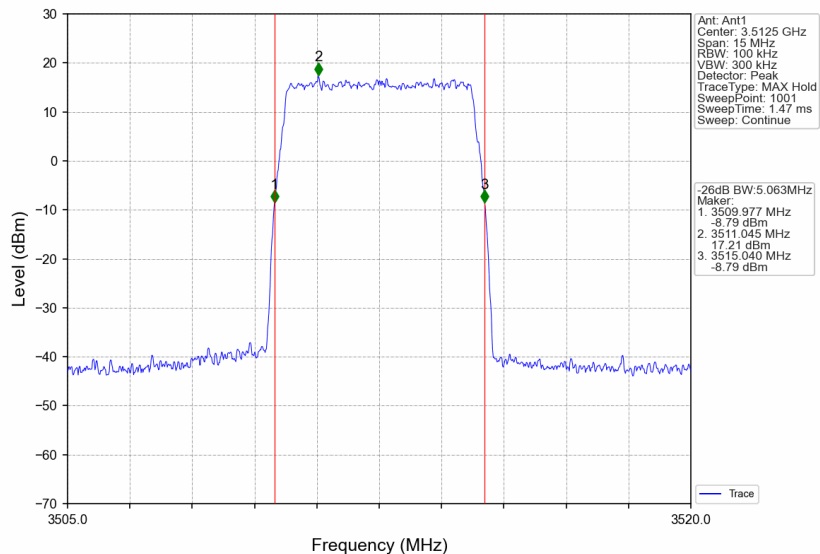
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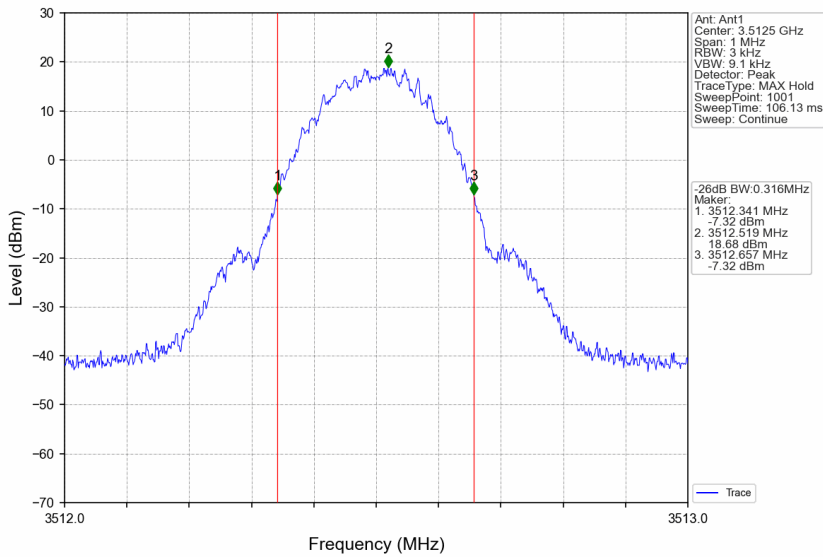


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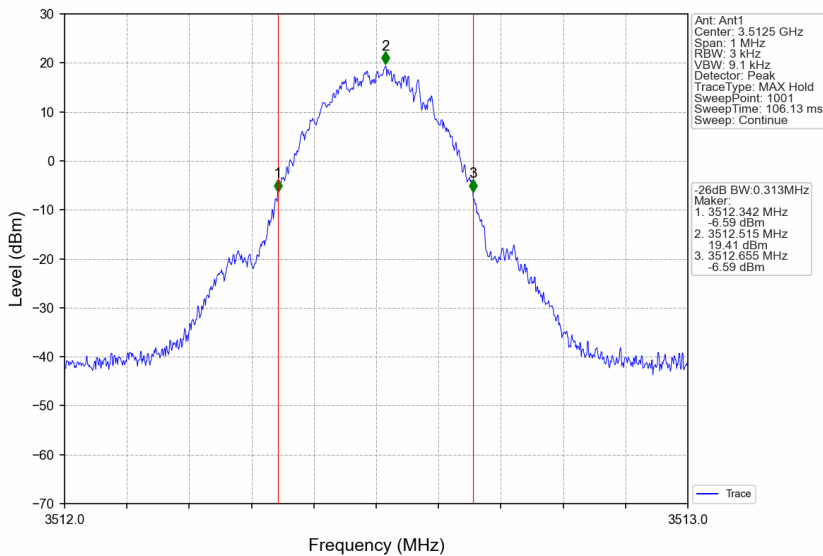
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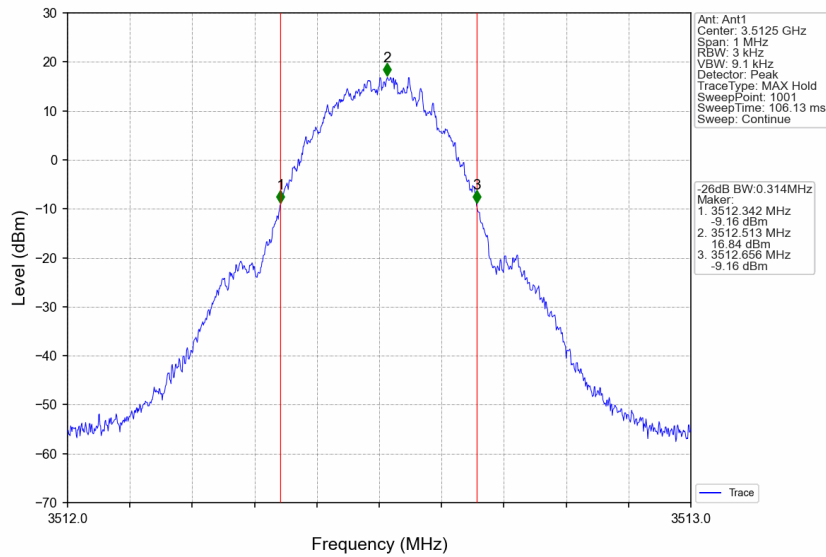
3450MHz-3550MHz_3512.5MHz_GMSK_SISO_Ant1_NTNV_AGC+3



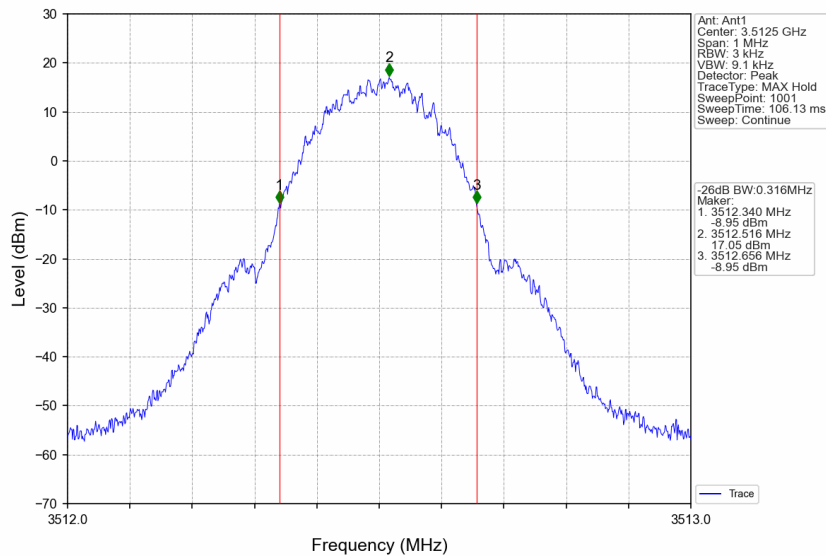
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3450MHz-3550MHz_3512.5MHz_GMSK_SISO_Ant1_NTNV_AGC



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4. Input/output power and amplifier/booster gain

4.1 3450MHz-3550MHz_EIRP

4.1.1 Test Result

3450MHz-3550MHz / NTN											
Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Output Power (dBm/MHz)				Total Output Power (dBm/MHz)	EIRP (dBm/MHz)	Gain (dB)
					Ant 1	Ant 2	Ant 3	Ant 4			
SISO mode											
3450MHz-3550MHz	3512.5	AWGN	Pre-AGC	-0.02	17.77	--	--	--	17.77	20.77	23.62
			3dB Above AGC	2.98	19.58	--	--	--	19.58	22.58	/
	3512.5	GMSK	Pre-AGC	0.98	18.27	--	--	--	18.27	21.27	23.06
			3dB Above AGC	3.98	18.34	--	--	--	18.34	21.34	/

3450MHz-3550MHz / NTN											
Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Total Output Power (dBm/MHz)			EIRP(dBm/MHz)			Gain (dB)
					SISO	2X2 MIMO	4X4 MIMO	SISO	2X2 MIMO	4X4 MIMO	
					MIMO mode						
3450MHz-3550MHz	3512.5	AWGN	Pre-AGC	-0.02	17.77	20.78	23.79	20.77	23.78	26.79	/
			3dB Above AGC	2.98	19.58	22.59	25.6	22.58	25.59	28.6	/
	3512.5	GMSK	Pre-AGC	0.98	18.27	21.28	24.29	21.27	24.28	27.29	/
			3dB Above AGC	3.98	18.34	21.35	24.36	21.34	24.35	27.36	/



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3450MHz-3550MHz / NTV											
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						
3450MHz-3550MHz	3512.5	AWGN	Pre-AGC	-0.02	25.08	28.09	31.1	28.08	31.09	34.1	/
			3dB Above AGC	2.98	25.16	28.17	31.18	28.16	31.17	34.18	/
	3512.5	GMSK	Pre-AGC	0.98	25.12	28.13	31.14	28.12	31.13	34.14	/
			3dB Above AGC	3.98	25.13	28.14	31.15	28.13	31.14	34.15	/

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.



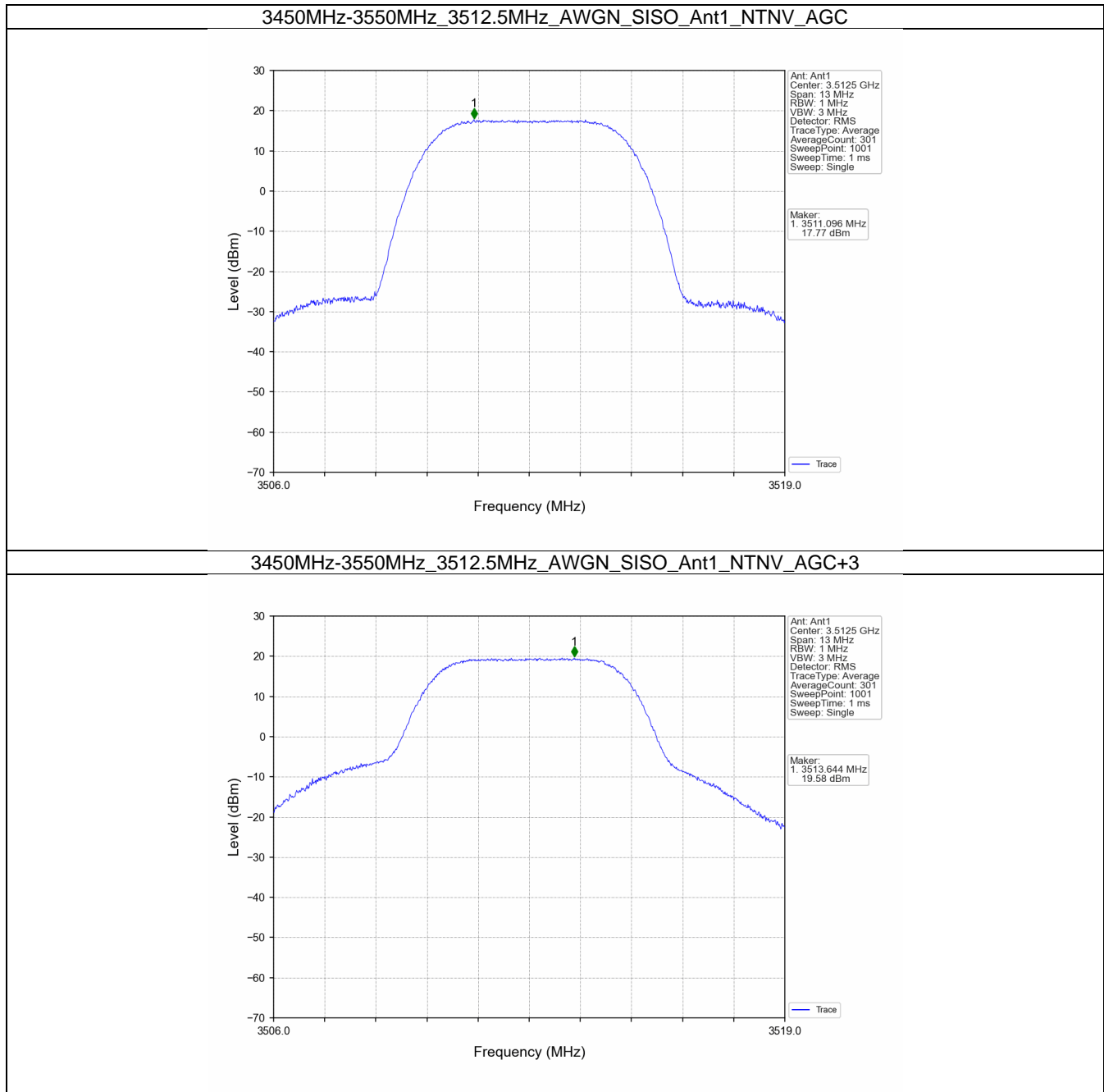
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4.1.2 Test Graph



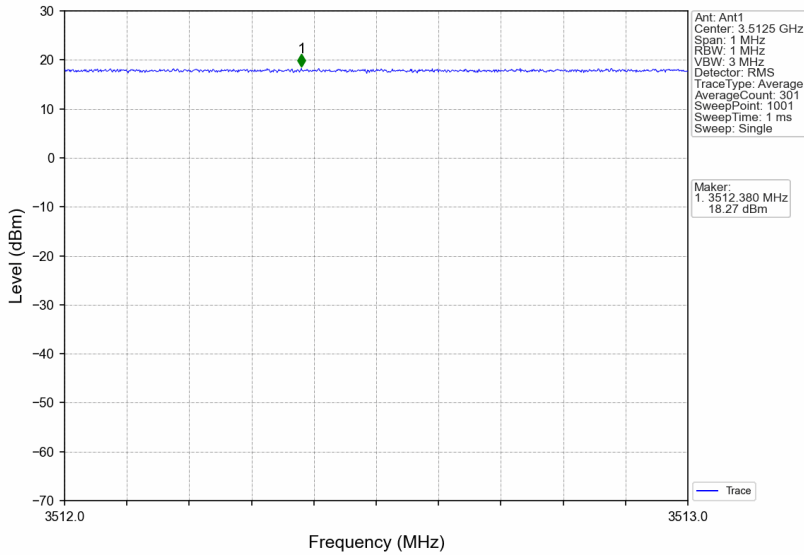
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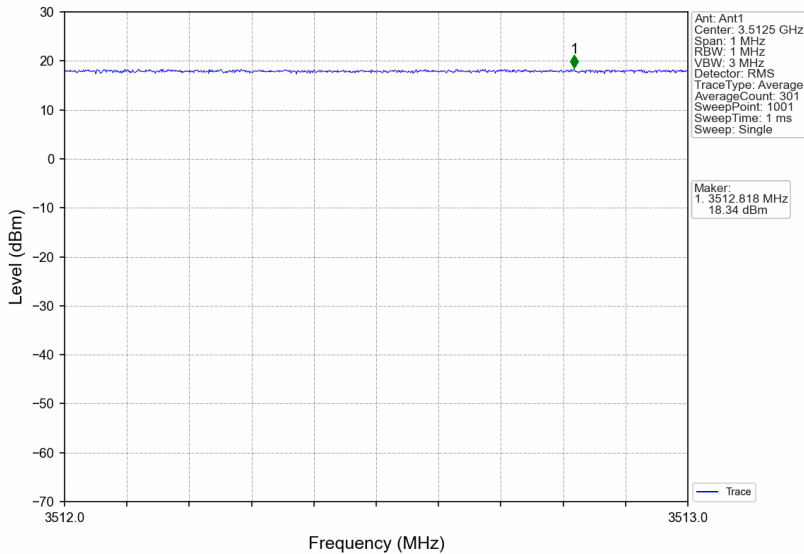
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3450MHz-3550MHz_3512.5MHz_GMSK_SISO_Ant1_NTNV_AGC



3450MHz-3550MHz_3512.5MHz_GMSK_SISO_Ant1_NTNV_AGC+3



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4.2 3450MHz-3550MHz_PAPR

4.2.1 Test Result

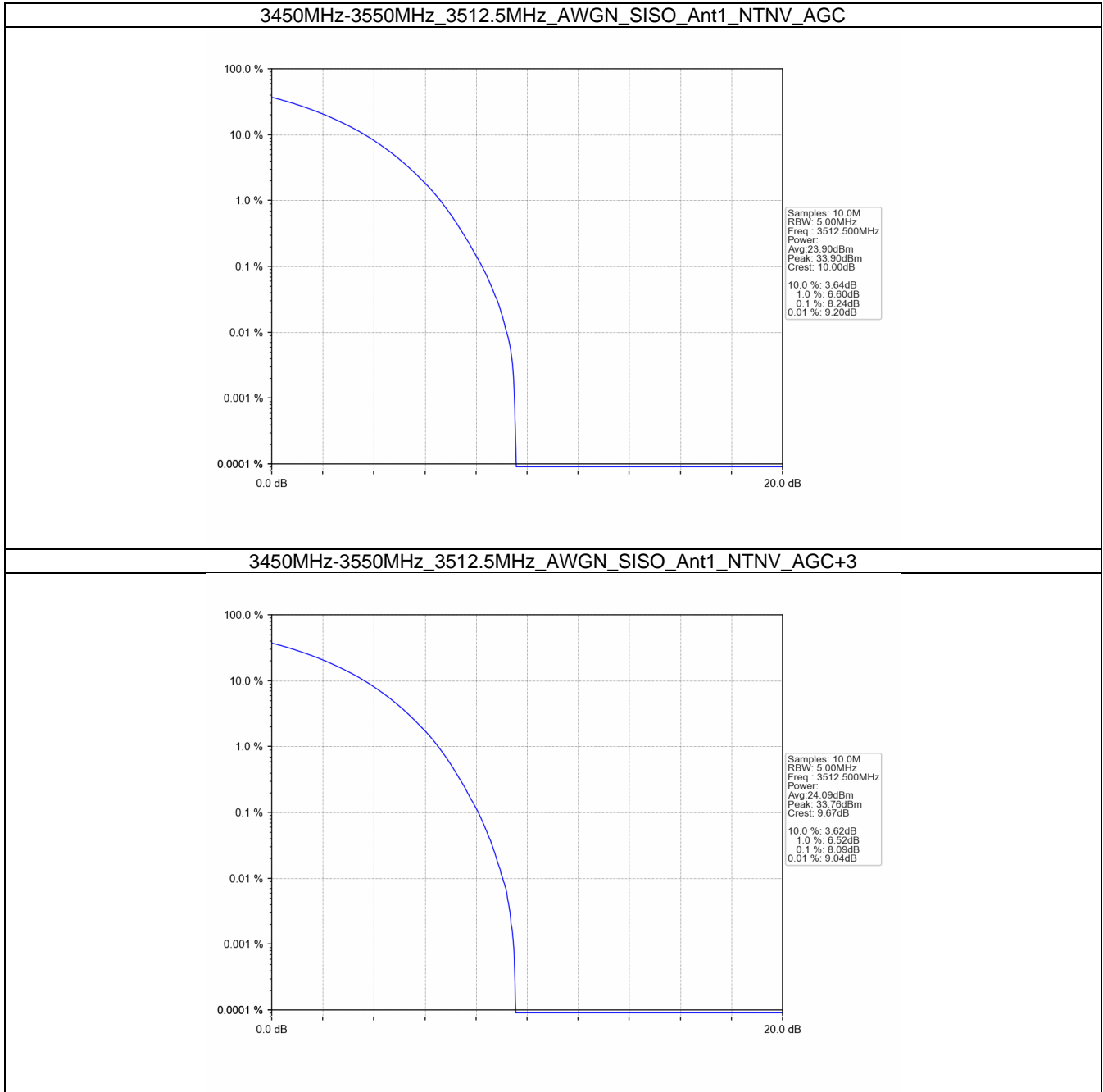
3450MHz-3550MHz / NTNv							
Type	Signal		TX Type	ANT	PAPR (dB)		Verdict
	Level (dBm)	Frequency (MHz)			Result	Limit	
AWGN	-0.02	3512.5	SISO	1	8.24	<=13	Pass
	2.98	3512.5	SISO	1	8.09	<=13	Pass
GMSK	0.98	3512.5	SISO	1	0.39	<=13	Pass
	3.98	3512.5	SISO	1	0.31	<=13	Pass



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4.2.2 Test Graph

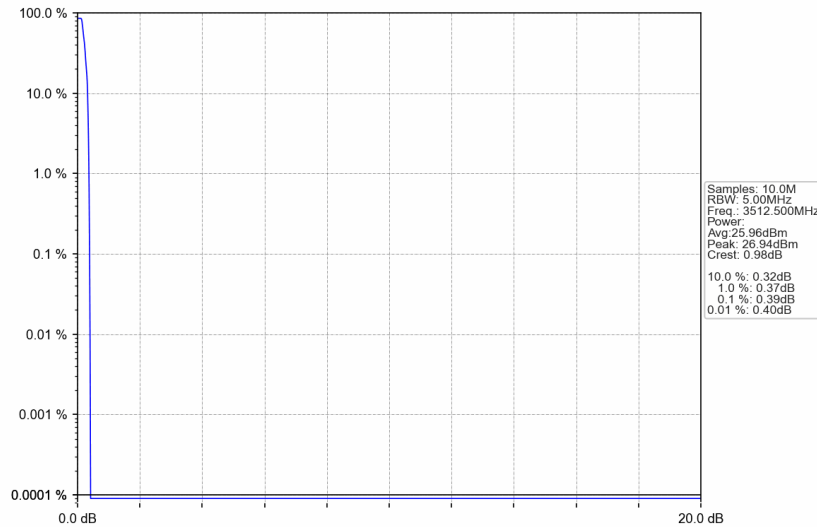


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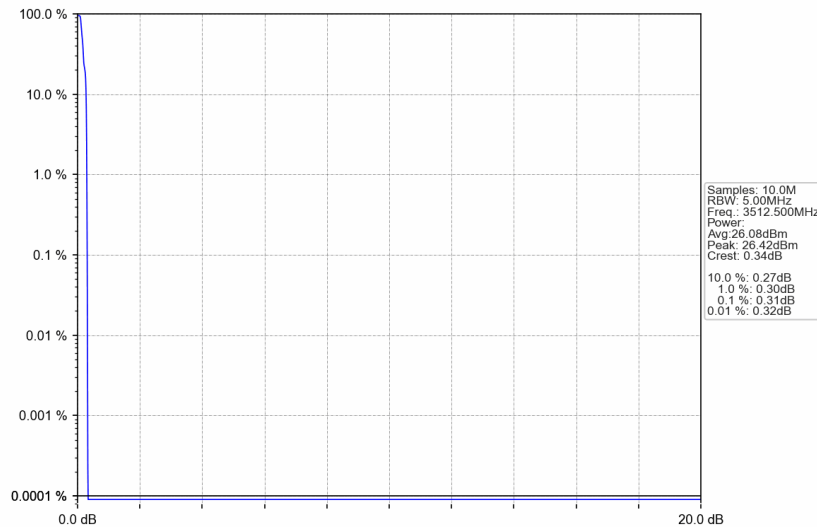
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3450MHz-3550MHz_3512.5MHz_GMSK_SISO_Ant1_NTNV_AGC



3450MHz-3550MHz_3512.5MHz_GMSK_SISO_Ant1_NTNV_AGC+3



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

5.1 3450MHz-3550MHz

5.1.1 Test Result

3450MHz-3550MHz / NTNV									
Input	Type	Signal		Channel	TX Type	ANT	OOB (dBm)		Verdict
		Level (dBm)	Frequency (MHz)				Result	Limit	
Two	AWGN	-0.02	3452.5	LCH	SISO	1	-54.64	Refer To Test Graph	Pass
		2.98	3452.5	LCH	SISO	1	-31.03	Refer To Test Graph	Pass
One	AWGN	-0.02	3452.5	LCH	SISO	1	-35.57	Refer To Test Graph	Pass
		2.98	3452.5	LCH	SISO	1	-47.80	Refer To Test Graph	Pass
Two	AWGN	-0.02	3547.5	HCH	SISO	1	-54.46	Refer To Test Graph	Pass
		2.98	3547.5	HCH	SISO	1	-34.12	Refer To Test Graph	Pass
One	AWGN	-0.02	3547.5	HCH	SISO	1	-39.77	Refer To Test Graph	Pass
		2.98	3547.5	HCH	SISO	1	-48.24	Refer To Test Graph	Pass
Two	GMSK	0.98	3450.1	LCH	SISO	1	-31.28	Refer To Test Graph	Pass
		3.98	3450.1	LCH	SISO	1	-31.38	Refer To Test Graph	Pass
One	GMSK	0.98	3450.1	LCH	SISO	1	-31.41	Refer To Test Graph	Pass
		3.98	3450.1	LCH	SISO	1	-31.66	Refer To Test Graph	Pass
Two	GMSK	0.98	3549.9	HCH	SISO	1	-30.59	Refer To Test Graph	Pass
		3.98	3549.9	HCH	SISO	1	-29.59	Refer To Test Graph	Pass
One	GMSK	0.98	3549.9	HCH	SISO	1	-30.00	Refer To Test Graph	Pass
		3.98	3549.9	HCH	SISO	1	-29.03	Refer To Test Graph	Pass

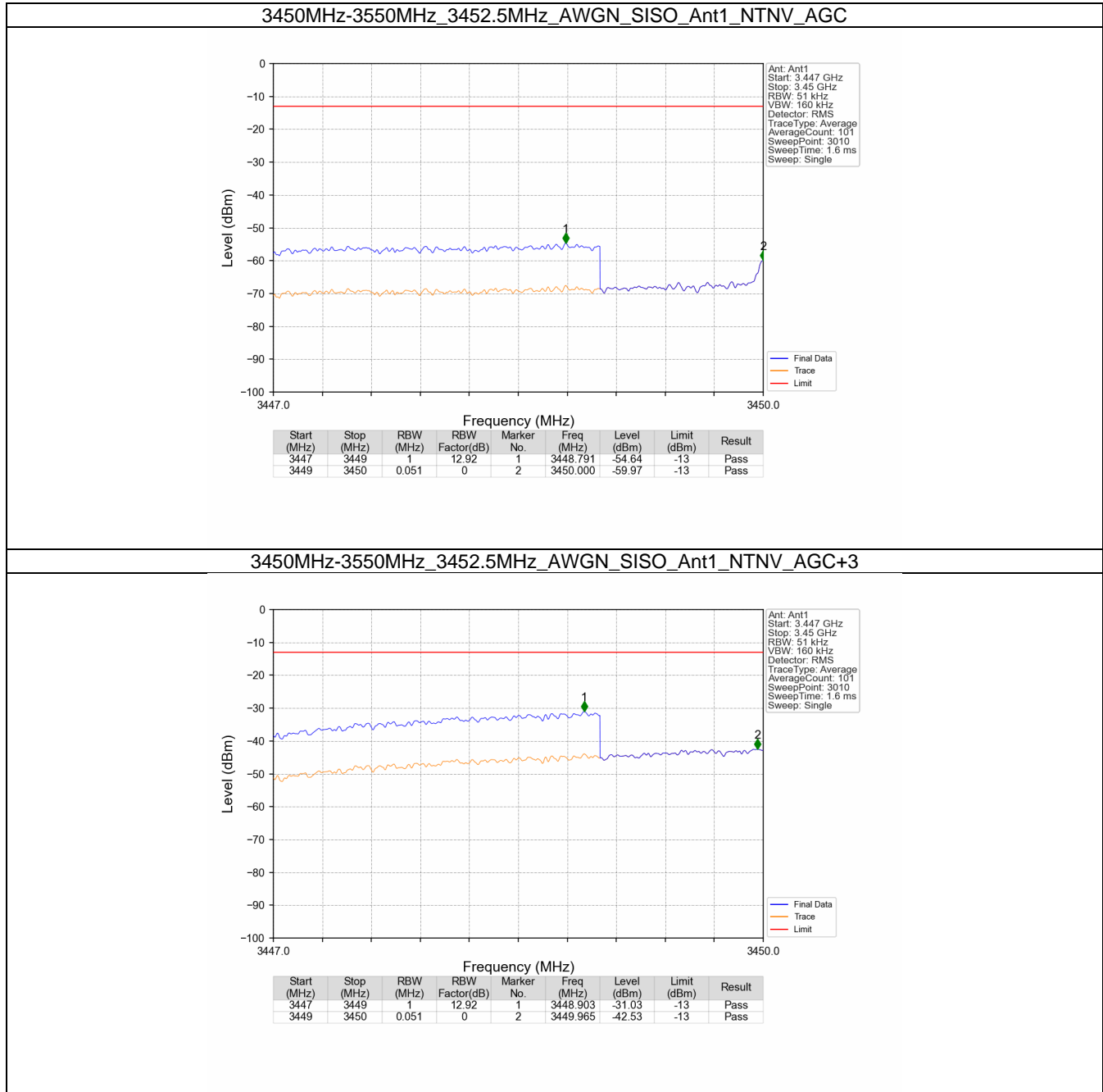


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5.1.2 Test Graph



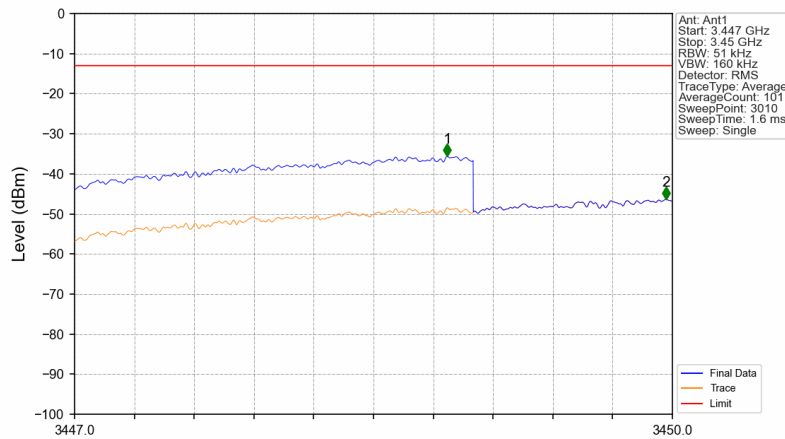
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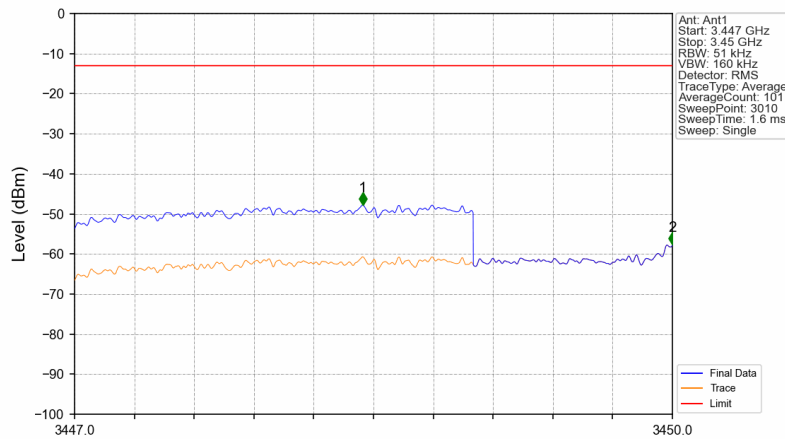
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3450MHz-3550MHz_3452.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3447	3449	1	12.92	1	3448.869	-35.57	-13	Pass
3449	3450	0.051	0	2	3449.967	-46.41	-13	Pass

3450MHz-3550MHz_3452.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3447	3449	1	12.92	1	3448.446	-47.80	-13	Pass
3449	3450	0.051	0	2	3450.000	-57.68	-13	Pass

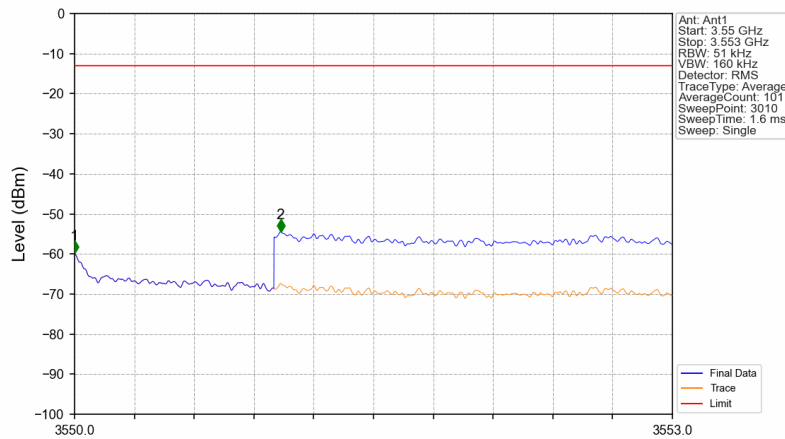


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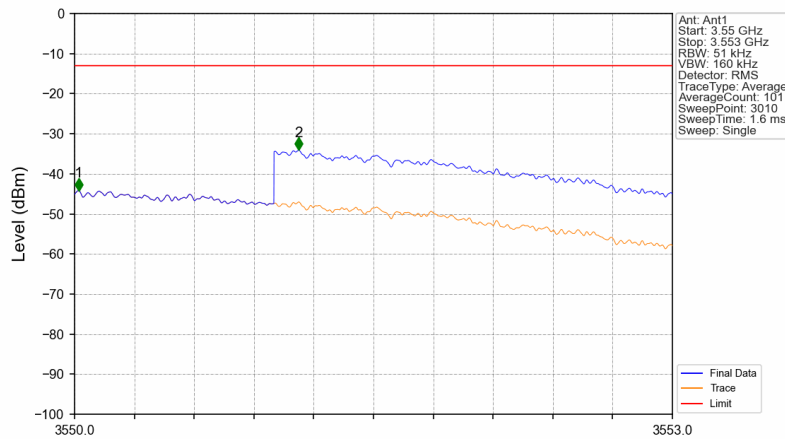
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3450MHz-3550MHz_3547.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3550	3551	0.051	0	1	3550.000	-59.80	-13	Pass
3551	3553	1	12.92	2	3551.034	-54.46	-13	Pass

3450MHz-3550MHz_3547.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3550	3551	0.051	0	1	3550.020	-44.19	-13	Pass
3551	3553	1	12.92	2	3551.125	-34.12	-13	Pass

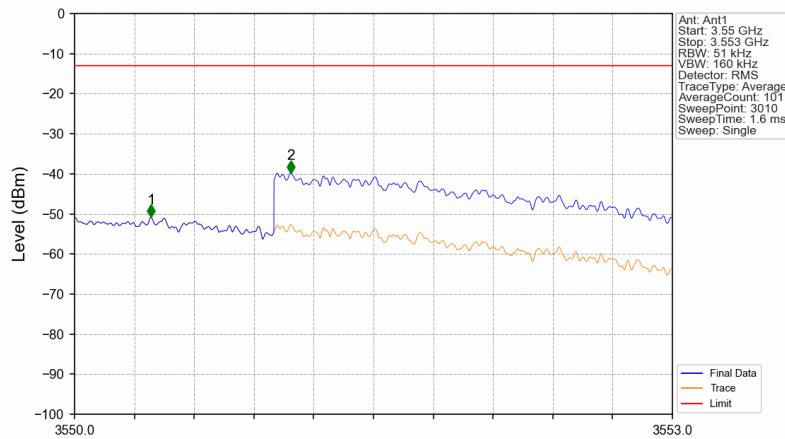


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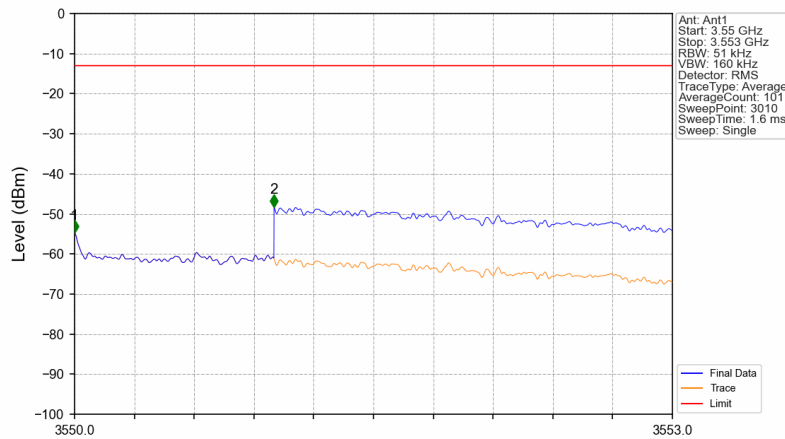
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3450MHz-3550MHz_3547.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3550	3551	0.051	0	1	3550.384	-50.82	-13	Pass
3551	3553	1	12.92	2	3551.085	-39.77	-13	Pass

3450MHz-3550MHz_3547.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3550	3551	0.051	0	1	3550.000	-54.75	-13	Pass
3551	3553	1	12.92	2	3551.001	-48.24	-13	Pass

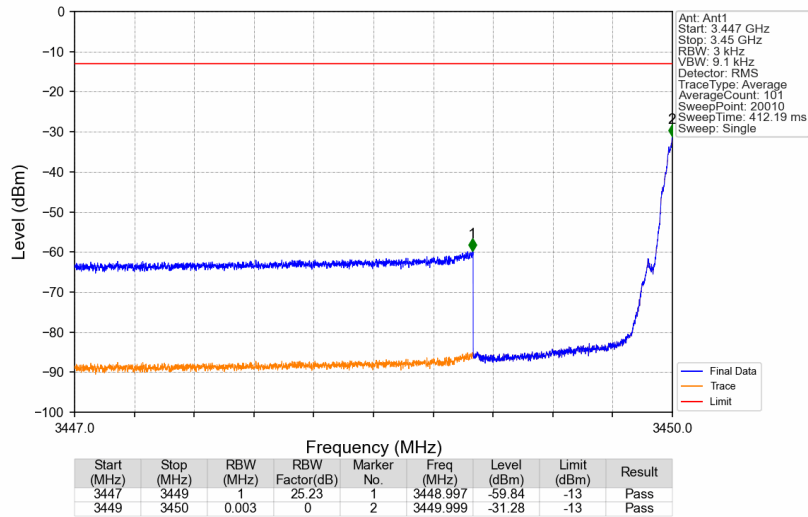


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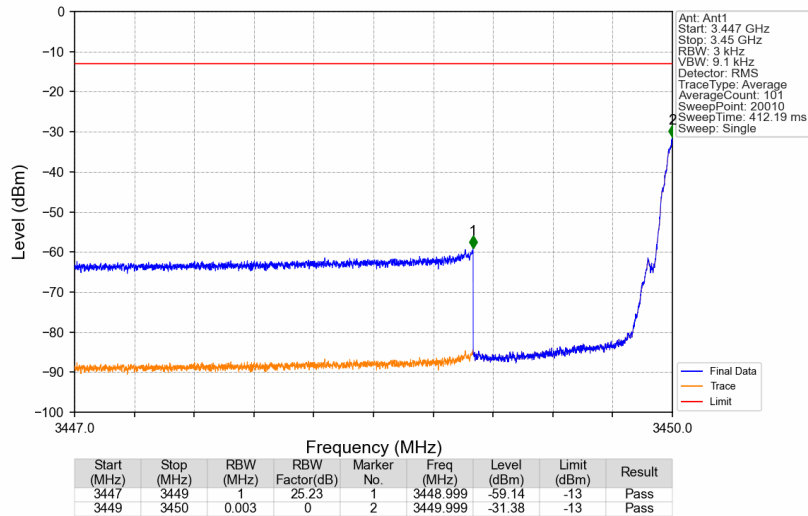
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3450MHz-3550MHz_3450.1MHz_GMSK_SISO_Ant1_NTNV_AGC+3

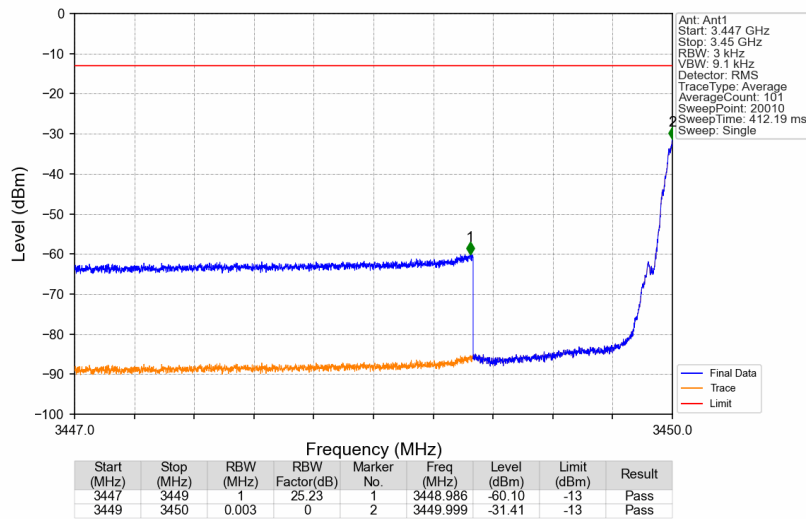


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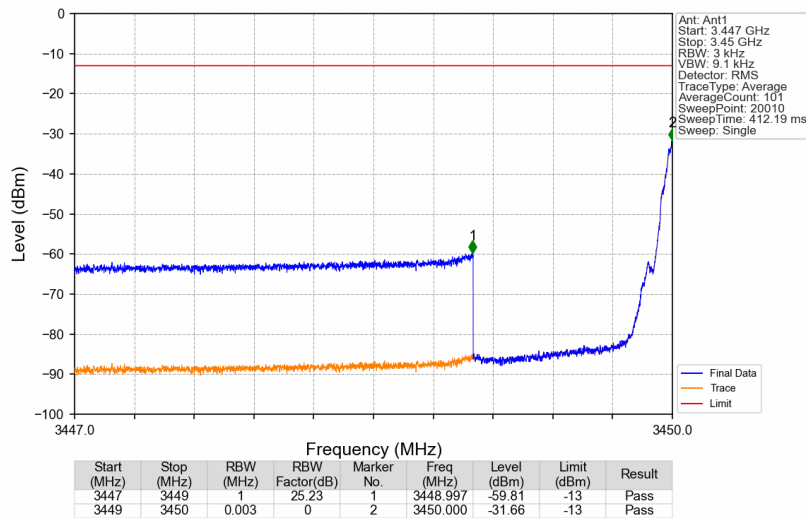
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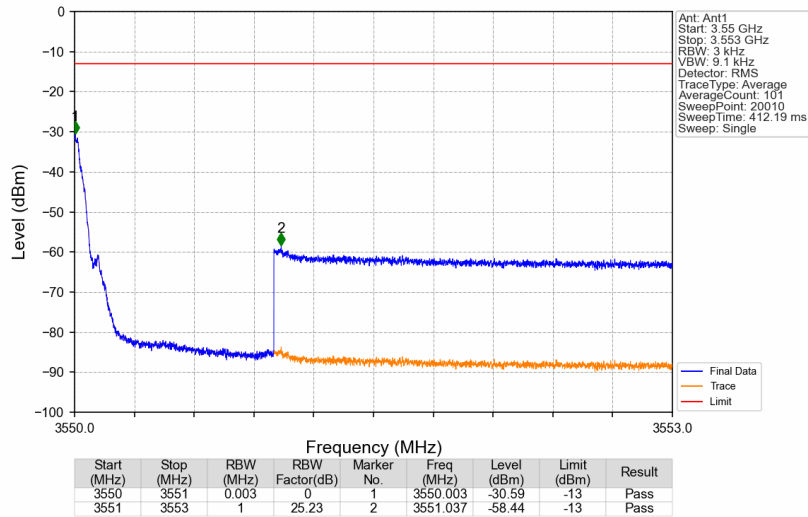


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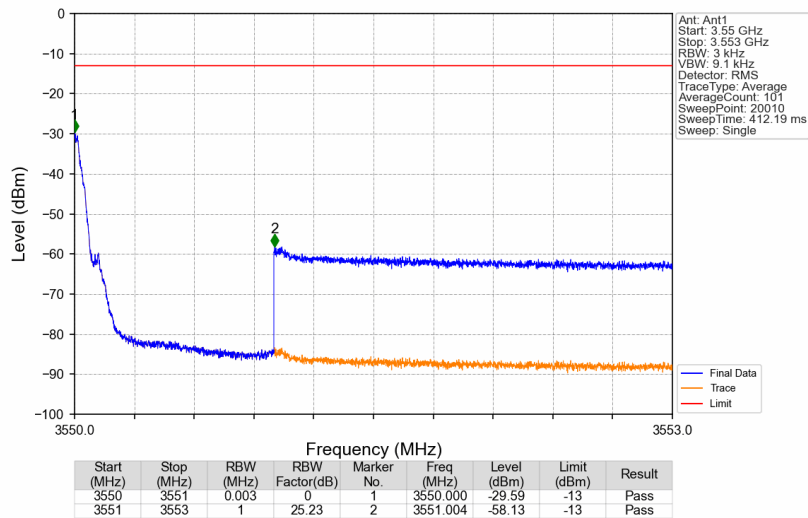
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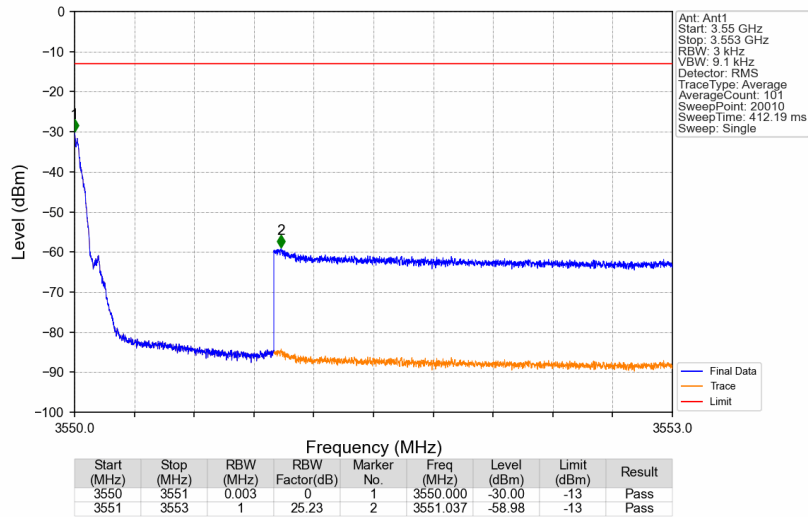


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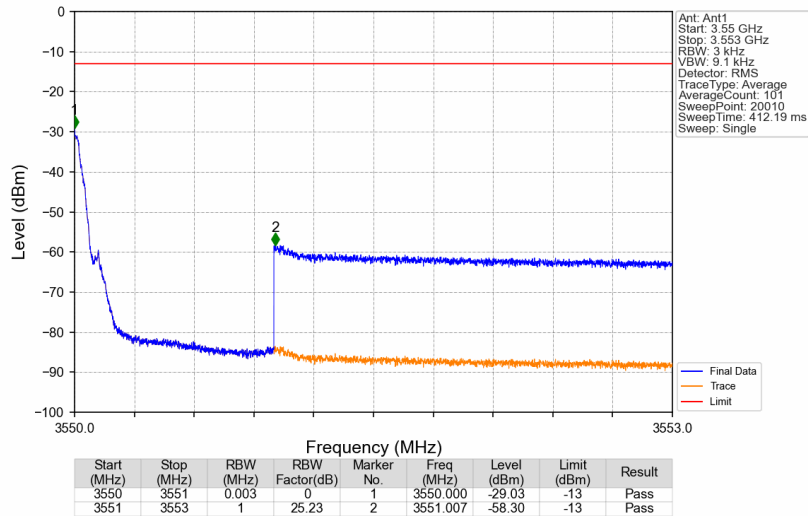
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6. Spurious emissions

6.1 3450MHz-3550MHz

6.1.1 Test Result

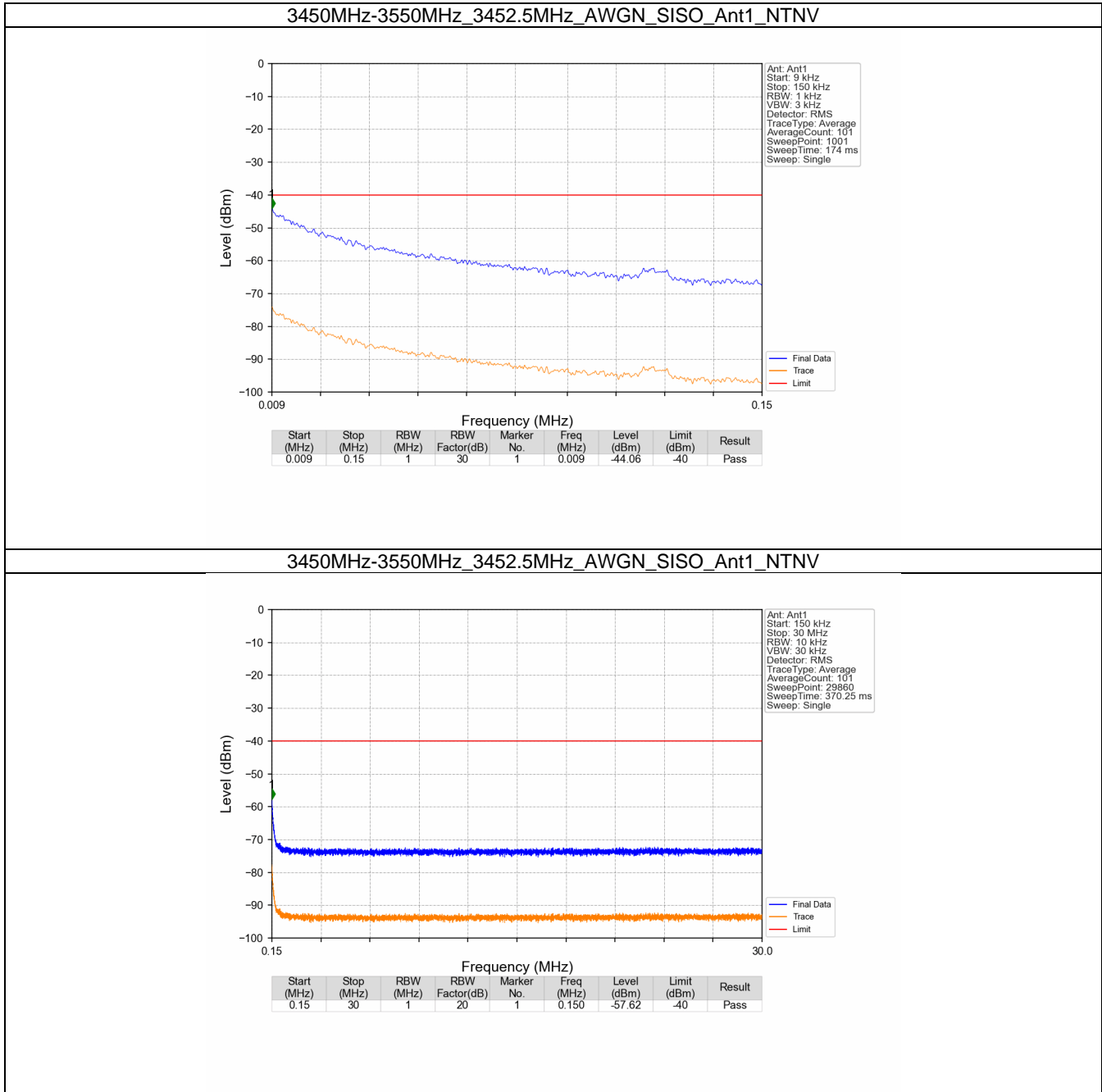
3450MHz-3550MHz / NTNV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
AWGN	-0.02	3452.5	LCH	SISO	1	Refer To Test Graph		Pass
		3500	MCH	SISO	1	Refer To Test Graph		Pass
		3547.5	HCH	SISO	1	Refer To Test Graph		Pass
GMSK	0.98	3450.1	LCH	SISO	1	Refer To Test Graph		Pass
		3500	MCH	SISO	1	Refer To Test Graph		Pass
		3549.9	HCH	SISO	1	Refer To Test Graph		Pass



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6.1.2 Test Graph



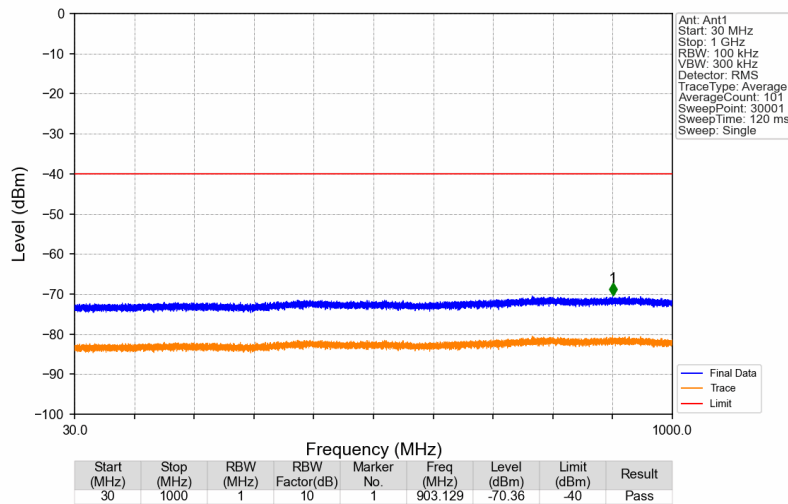
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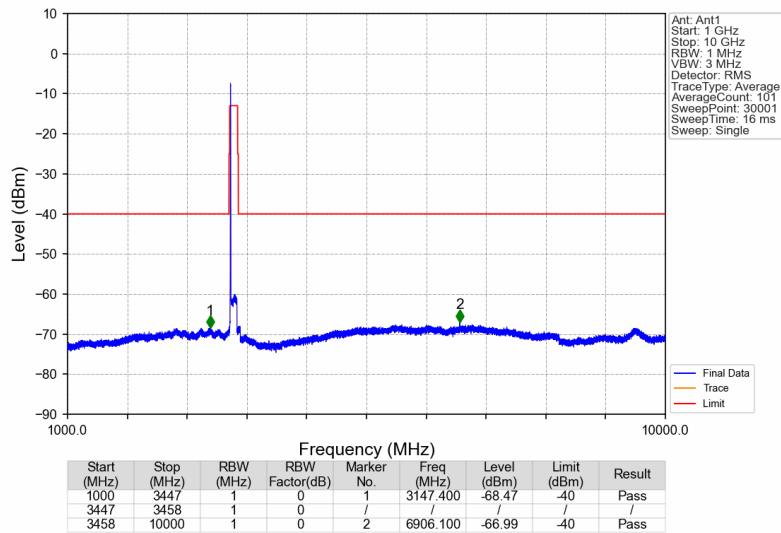
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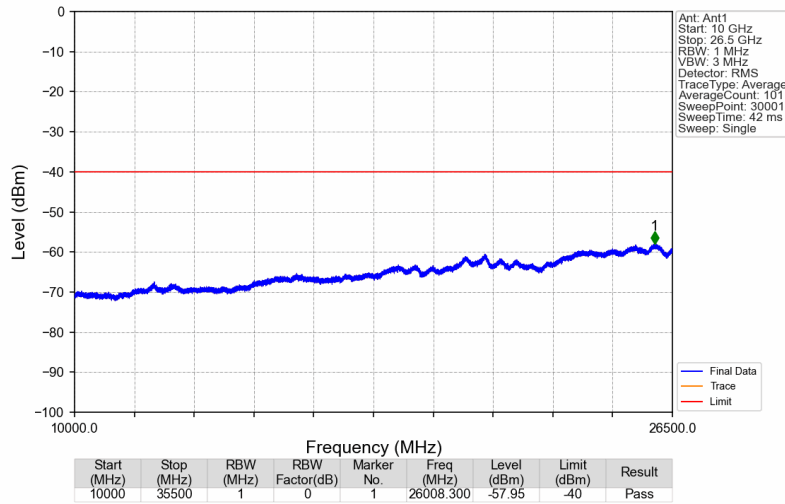


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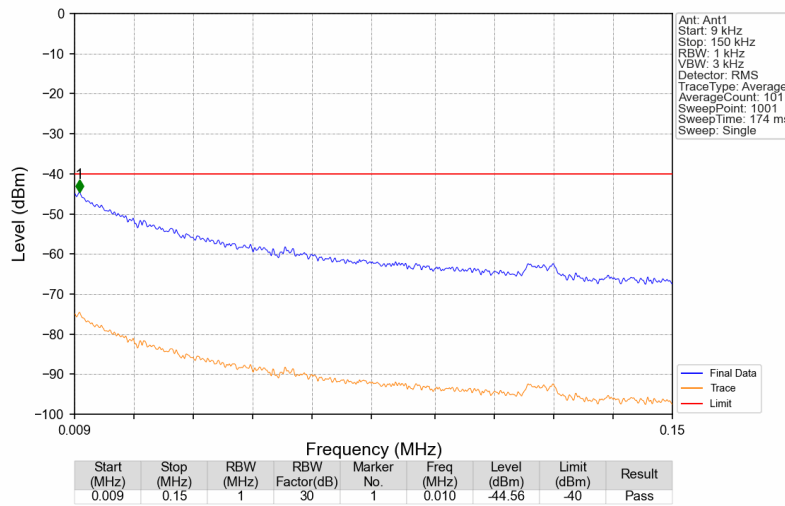
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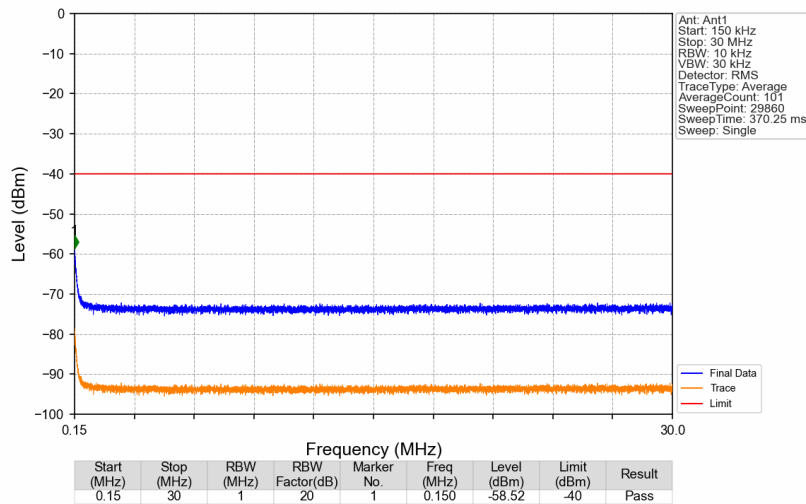


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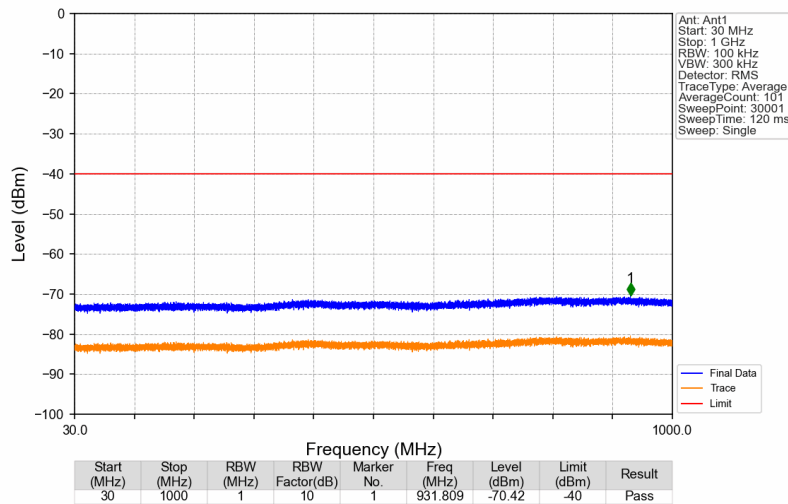
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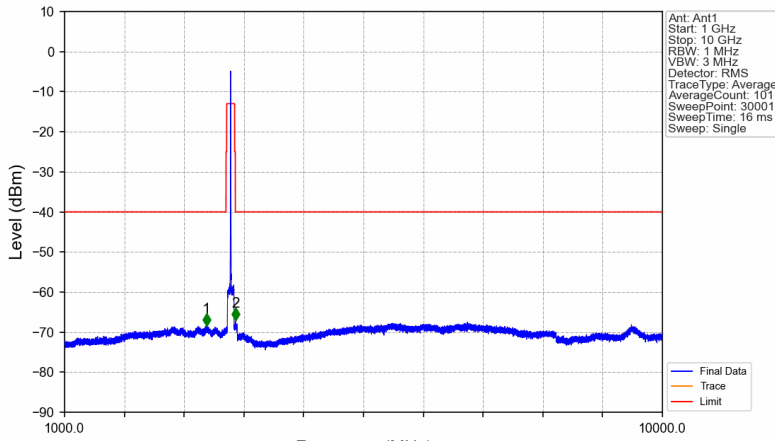
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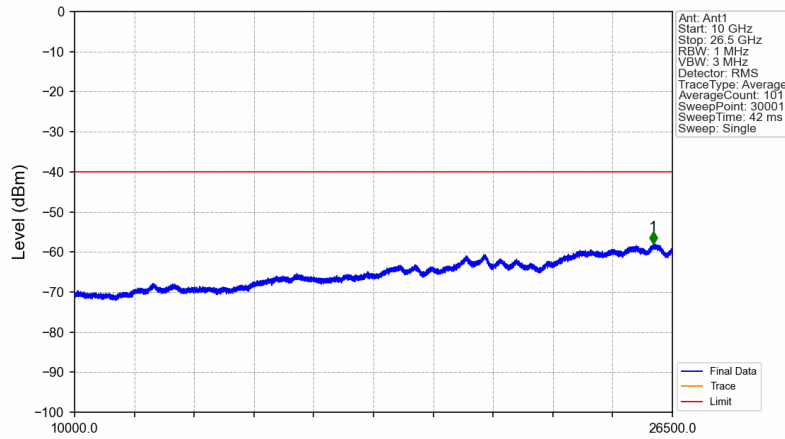
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Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	3494.5	1	0	1	3134.200	-68.50	-40	Pass
3494.5	3505.5	1	0	/	/	/	/	/
3505.5	10000	1	0	2	3577.000	-67.14	-40	Pass

3450MHz-3550MHz_3500MHz_AWGN_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	35500	1	0	1	25973.650	-58.02	-40	Pass

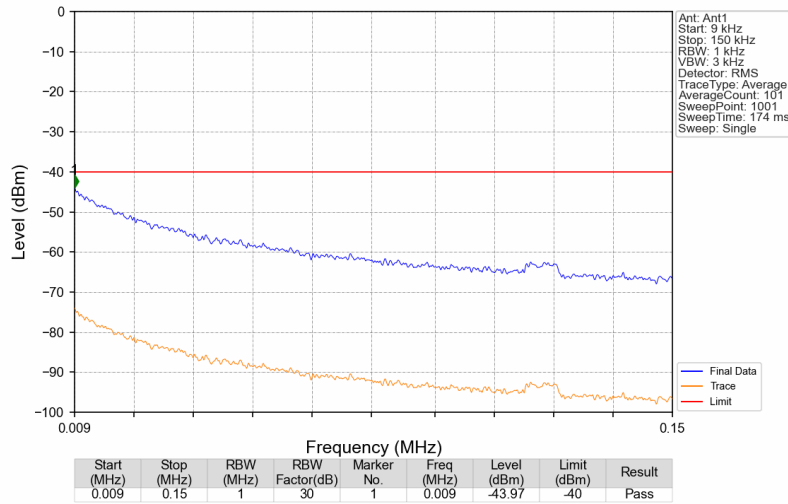


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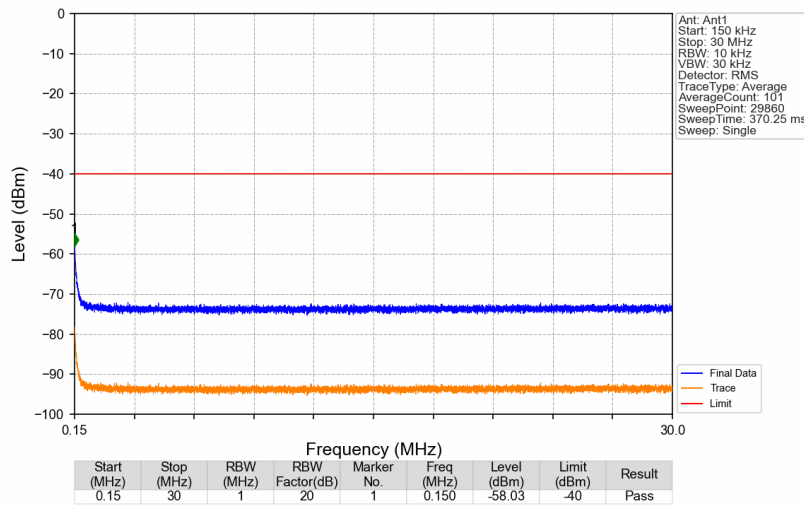
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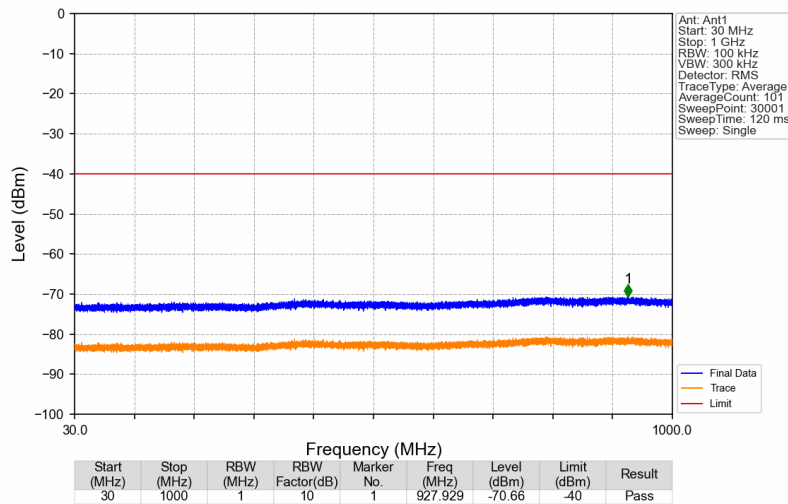
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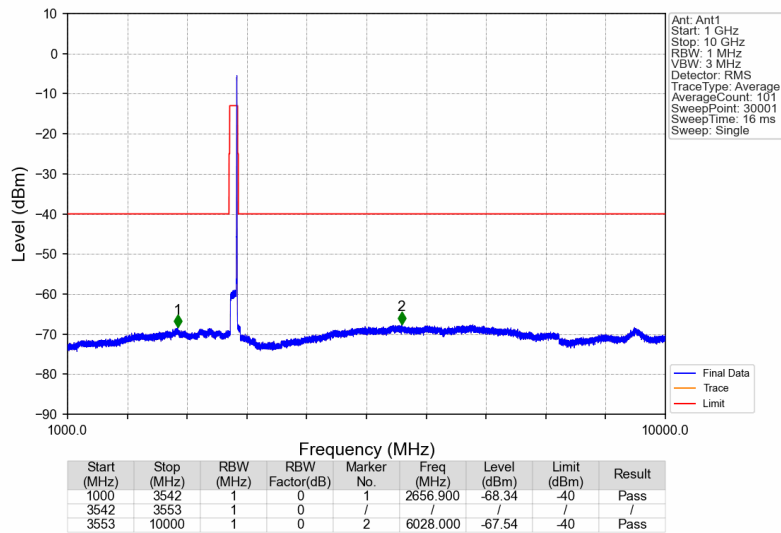
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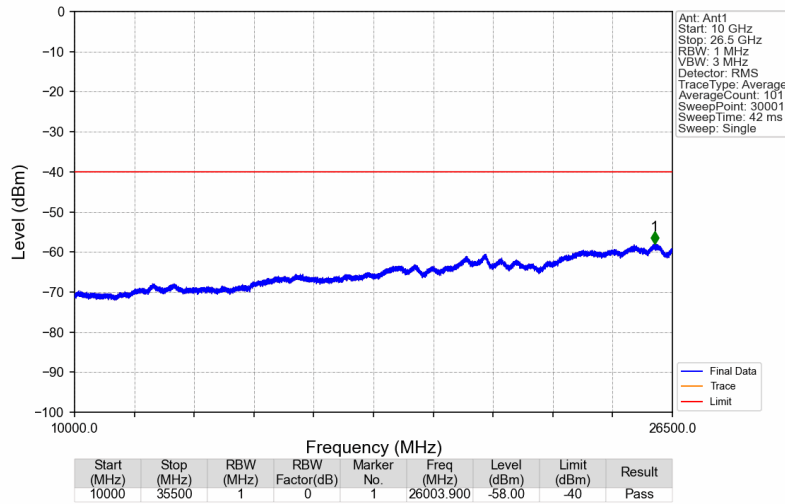
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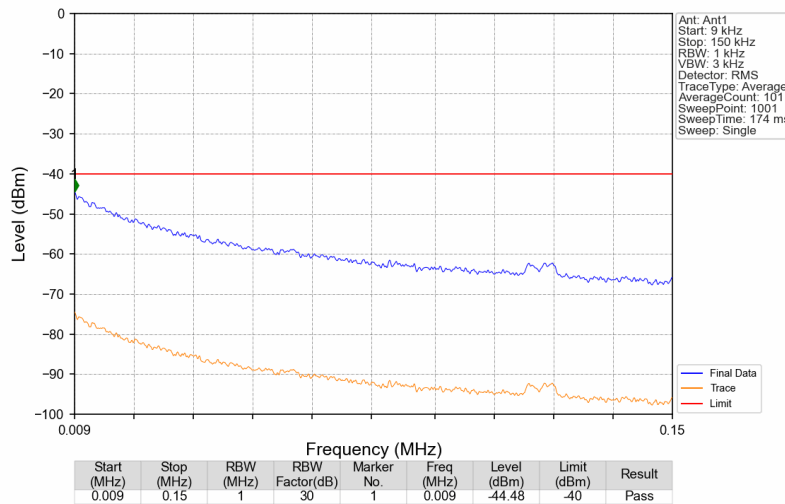
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3450MHz-3550MHz_3547.5MHz_AWGN_SISO_Ant1_NTNV



3450MHz-3550MHz_3450.1MHz_GMSK_SISO_Ant1_NTNV

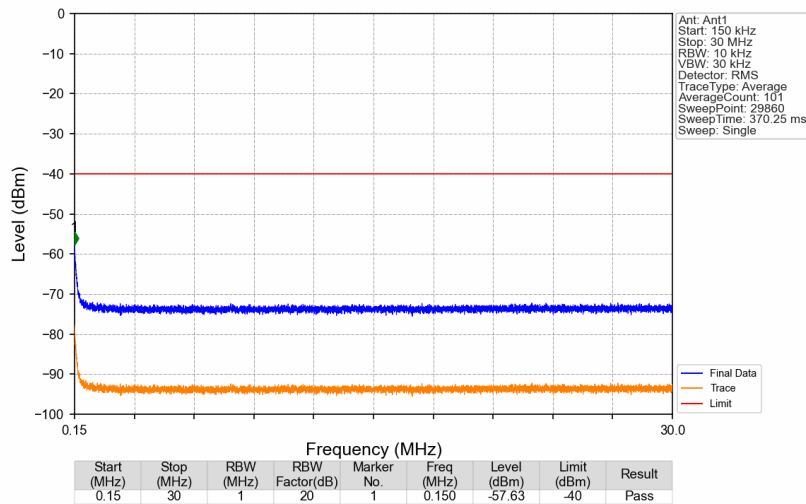


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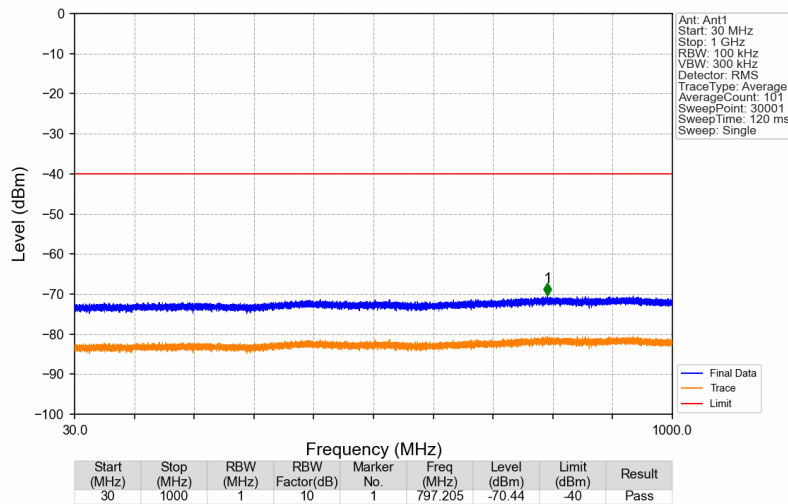
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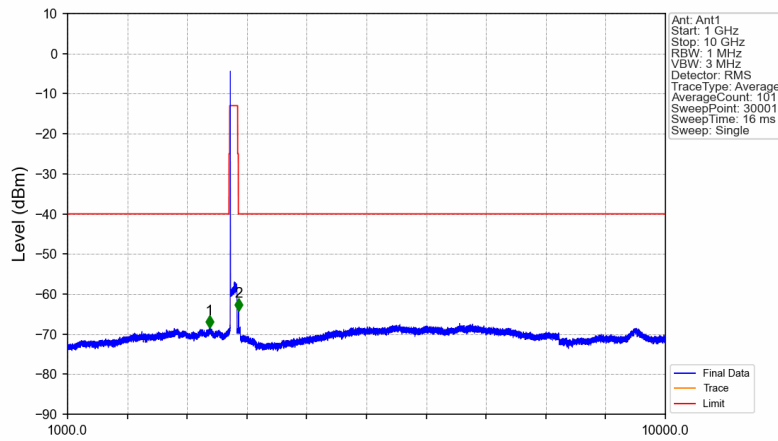
3450MHz-3550MHz_3450.1MHz_GMSK_SISO_Ant1_NTNV



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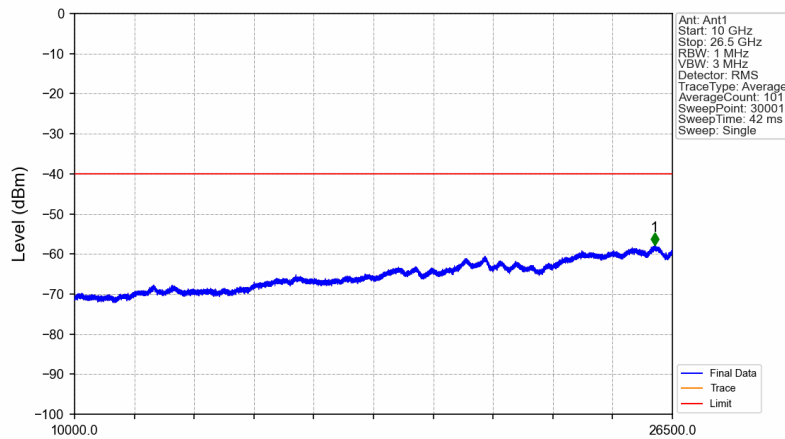
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3450MHz-3550MHz_3450.1MHz_GMSK_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	3447	1	0	1	3138.100	-68.47	-40	Pass
3447	3453.2	1	0	/	/	/	/	/
3453.2	10000	1	0	2	3573.700	-64.17	-40	Pass

3450MHz-3550MHz_3450.1MHz_GMSK_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	35500	1	0	1	26008.850	-57.77	-40	Pass

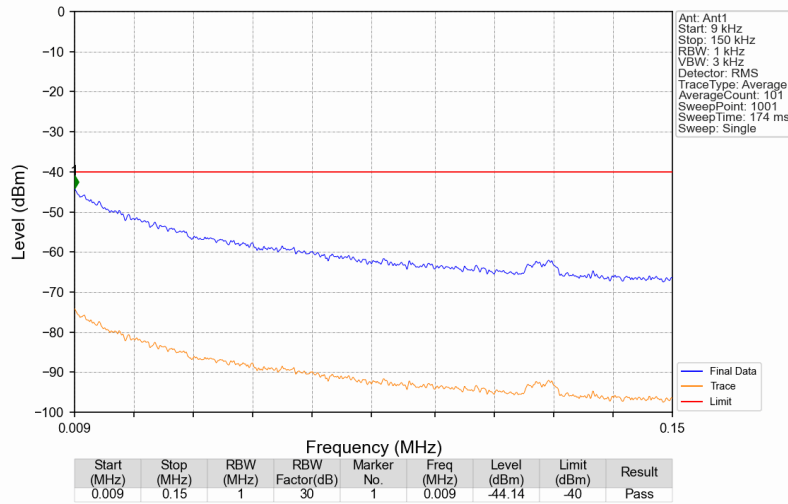


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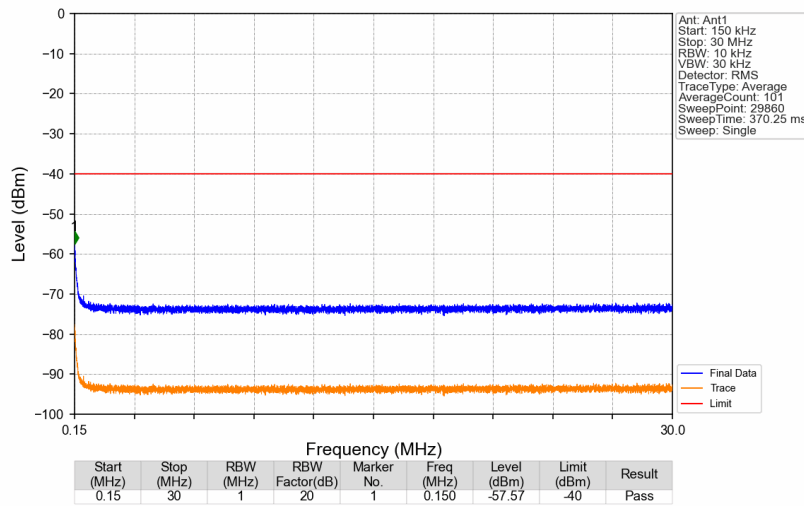
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3450MHz-3550MHz_3500MHz_GMSK_SISO_Ant1_NTNV



3450MHz-3550MHz_3500MHz_GMSK_SISO_Ant1_NTNV

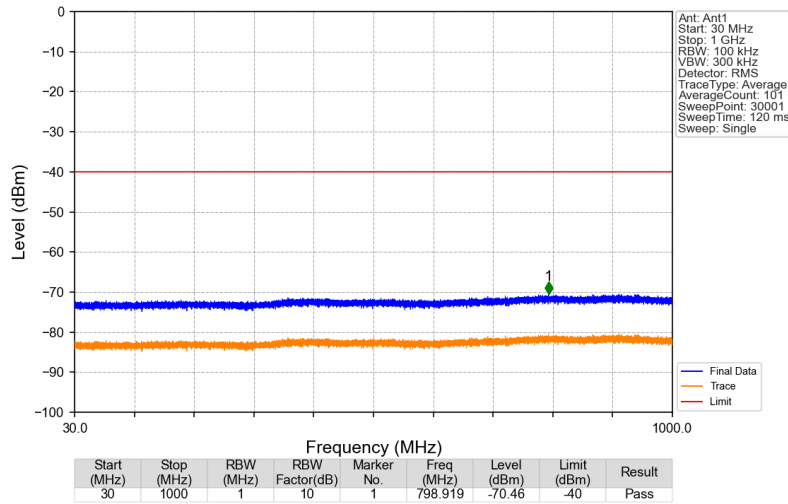


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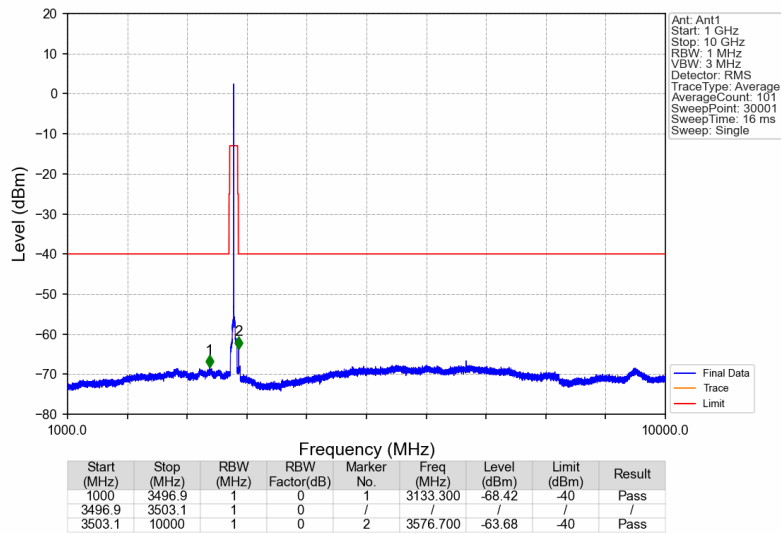
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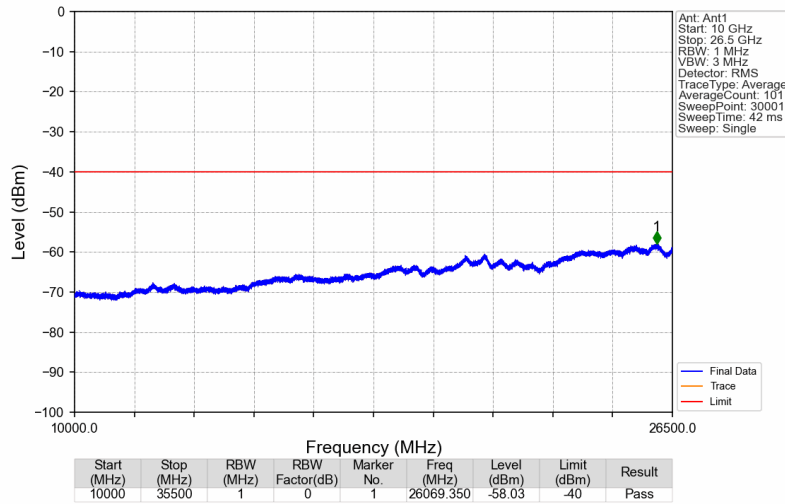
3450MHz-3550MHz_3500MHz_GMSK_SISO_Ant1_NTNV



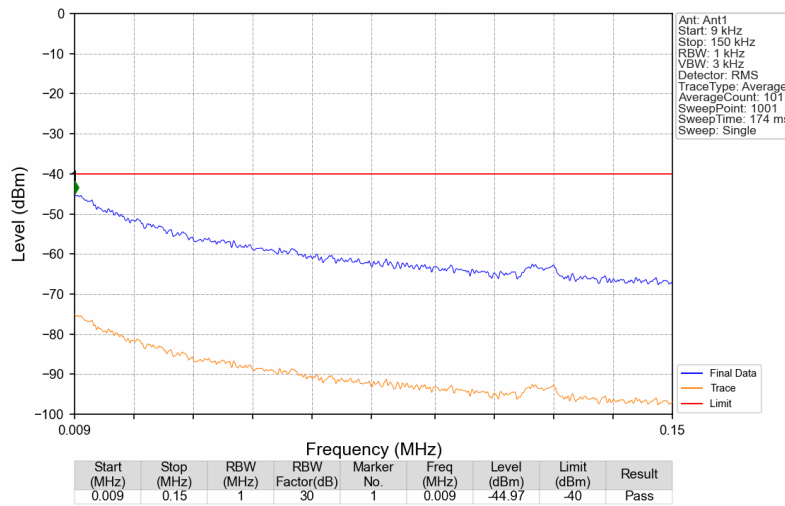
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3450MHz-3550MHz_3549.9MHz_GMSK_SISO_Ant1_NTNV

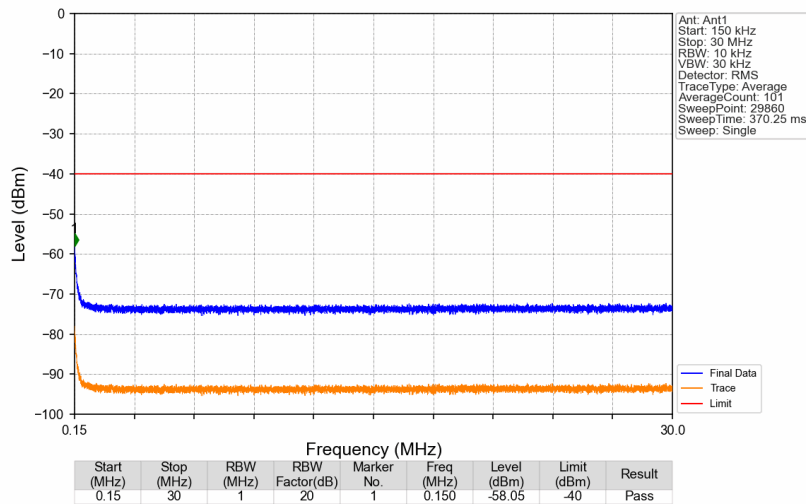


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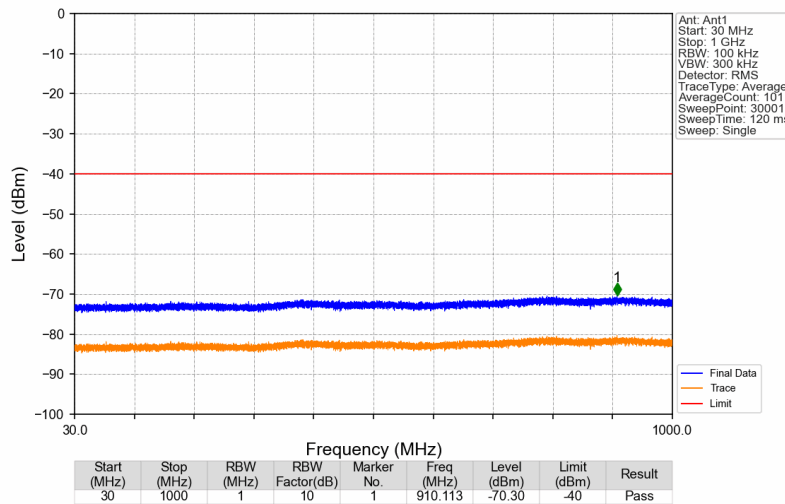
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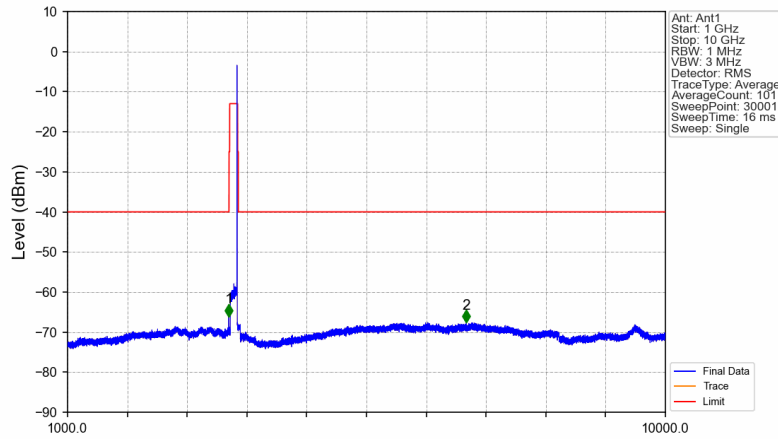
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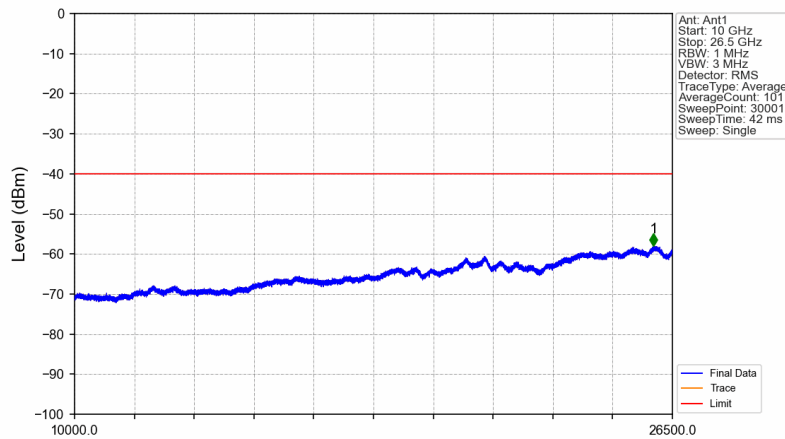
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3450MHz-3550MHz_3549.9MHz_GMSK_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	3546.8	1	0	1	3427.600	-66.13	-40	Pass
3546.8	3553	1	0	/	/	/	/	/
3553	10000	1	0	2	7003.600	-67.60	-40	Pass

3450MHz-3550MHz_3549.9MHz_GMSK_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	35500	1	0	1	25981.900	-57.98	-40	Pass



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7. Frequency stability measurements

7.1 3450MHz-3550MHz_Ant1

7.1.1 Test Result

3450MHz-3550MHz / NTNV								
Signal			Temp (°C)	Voltage (VDC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict	
Type	Level (dBm)	Frequency (MHz)						
CW	-0.02	3450.1	20	40.2	0.00	0.00	Pass	
				48	0.00	0.00	Pass	
				55.8	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
				45	48	0.00	0.00	Pass
		3500	20	40.2	0.00	0.00	Pass	
				48	0.00	0.00	Pass	
				55.8	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
				45	48	0.00	0.00	Pass
		3549.9	20	40.2	0.00	0.00	Pass	
				48	0.00	0.00	Pass	
				55.8	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		
	45		48	0.00	0.00	Pass		



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