

Appendix A for KSCR2208001583AT

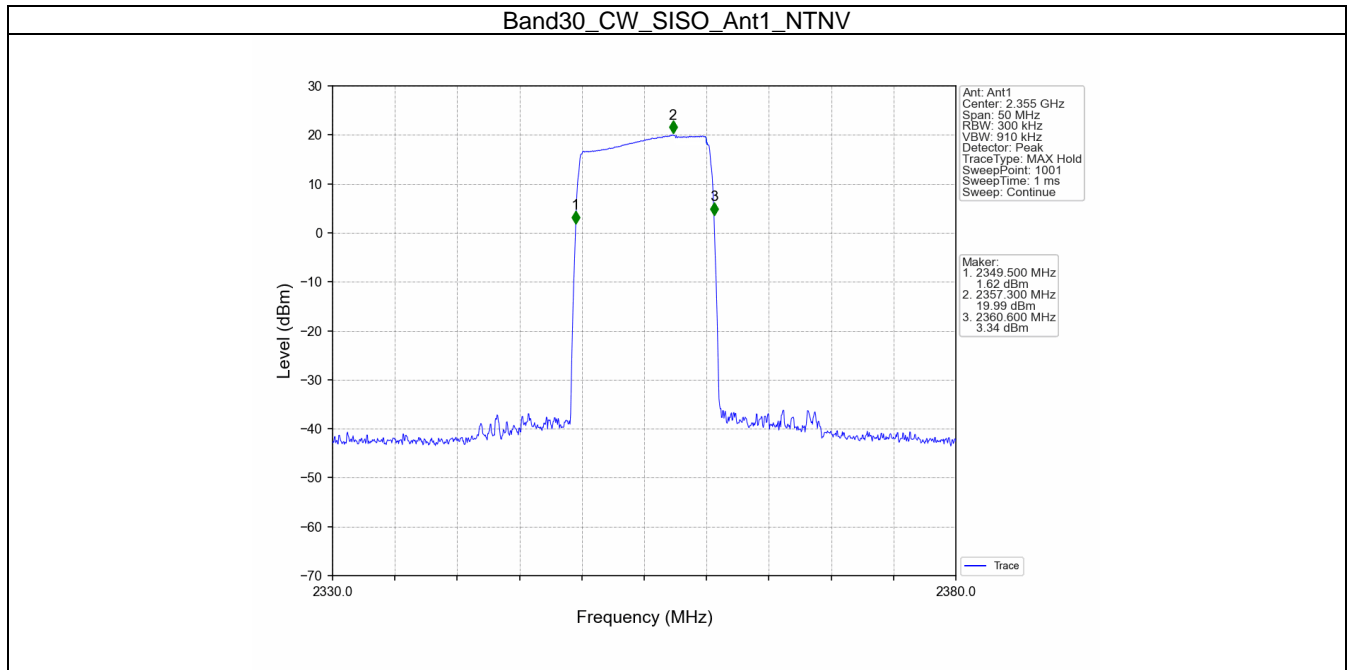
1. Out of band rejection

1.1 Band30

1.1.1 Test Result

Band: 30 / NTNV							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	2330 - 2380	SISO	1	2357.300	2349.500	2360.600	Pass

1.1.2 Test Graph



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2. AGC threshold

2.1 Band30

2.1.1 Test Result

Band: 30 / NTNV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
AWGN	2357.3	SISO	1	-2.00	Pass
GMSK	2357.3	SISO	1	-1.00	Pass



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3. Input-versus-output signal comparison

3.1 Band30_OBW

3.1.1 Test Result

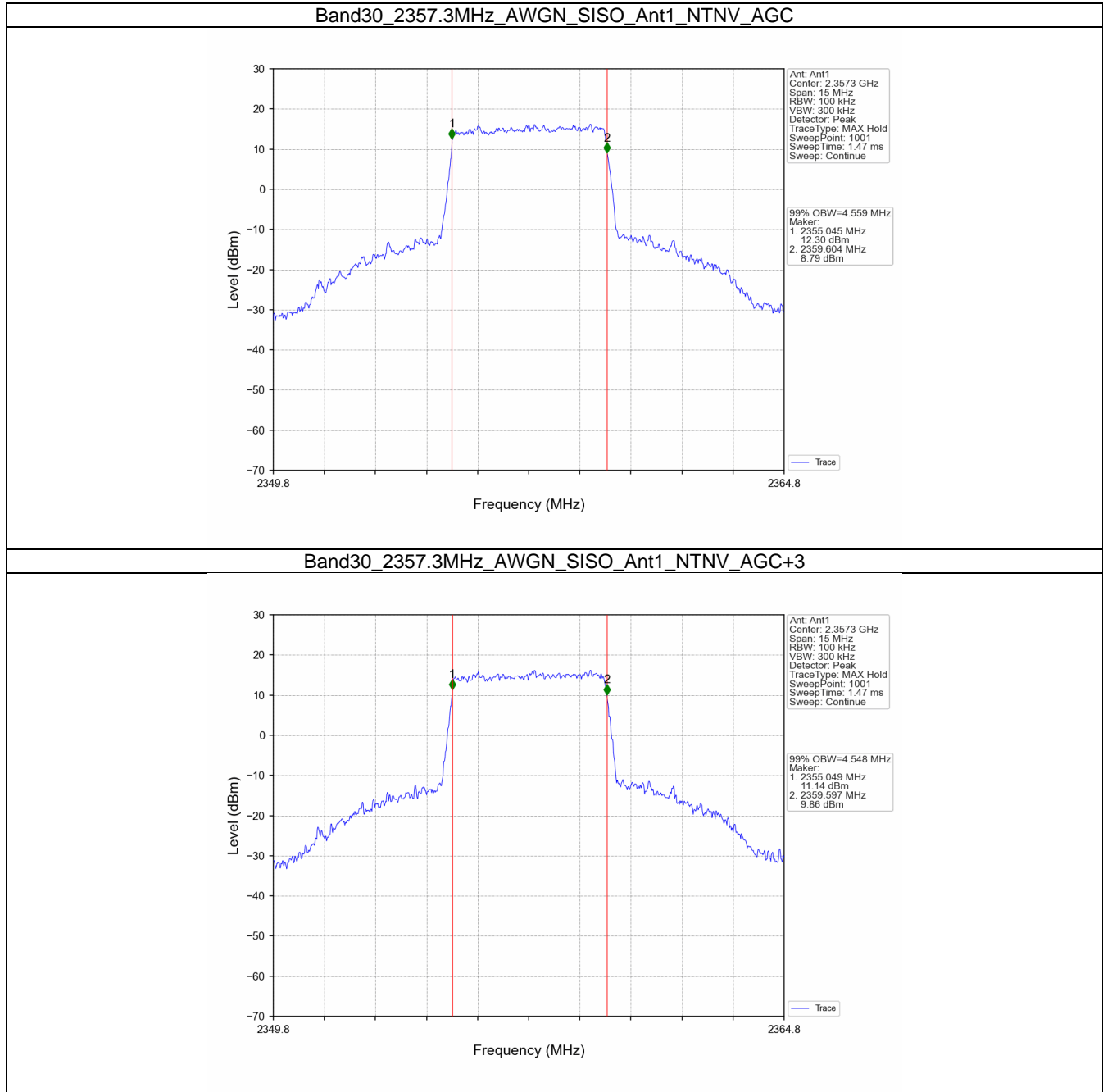
Band: 30 / NTVN							
Type	Signal		TX Type	ANT	99% OBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	1	2357.3	SISO	1	4.559	4.533	Pass
	-2	2357.3	SISO	1	4.548	4.532	Pass
GMSK	2	2357.3	SISO	1	0.244	0.244	Pass
	-1	2357.3	SISO	1	0.244	0.245	Pass



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3.1.2 Test Graph



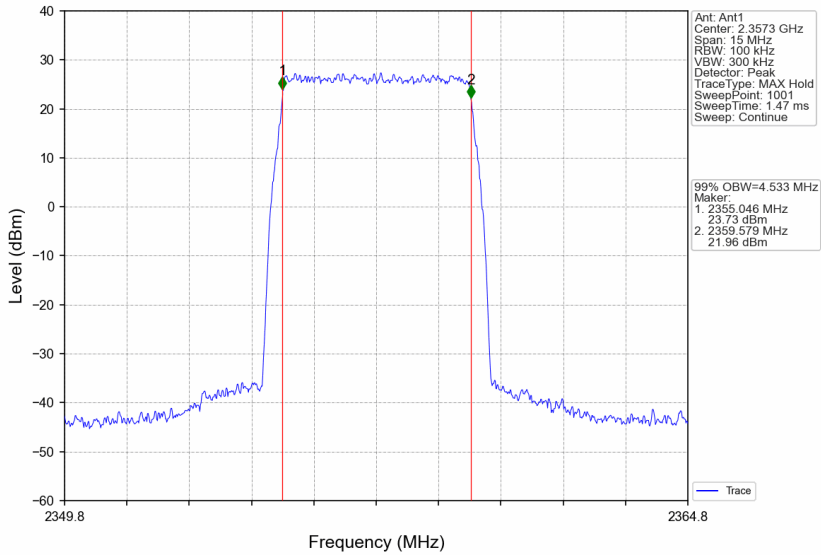
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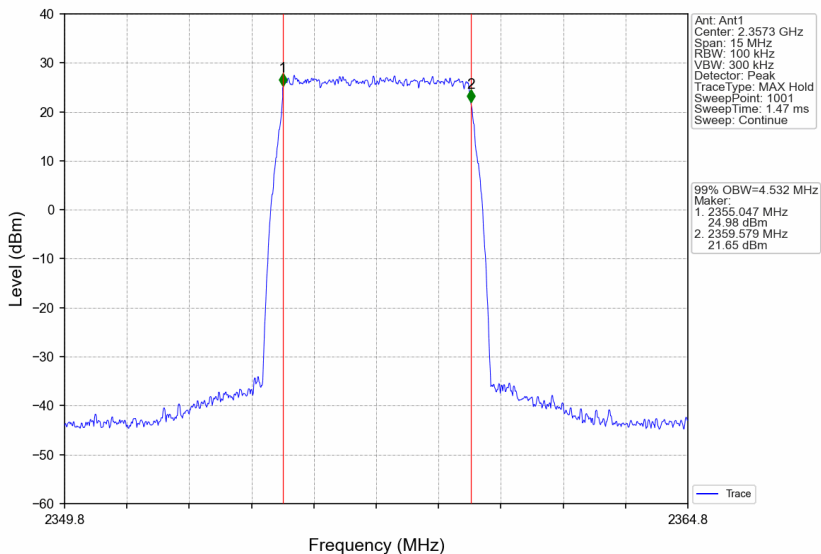
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Band30_2357.3MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Band30_2357.3MHz_AWGN_SISO_Ant1_NTNV_AGC

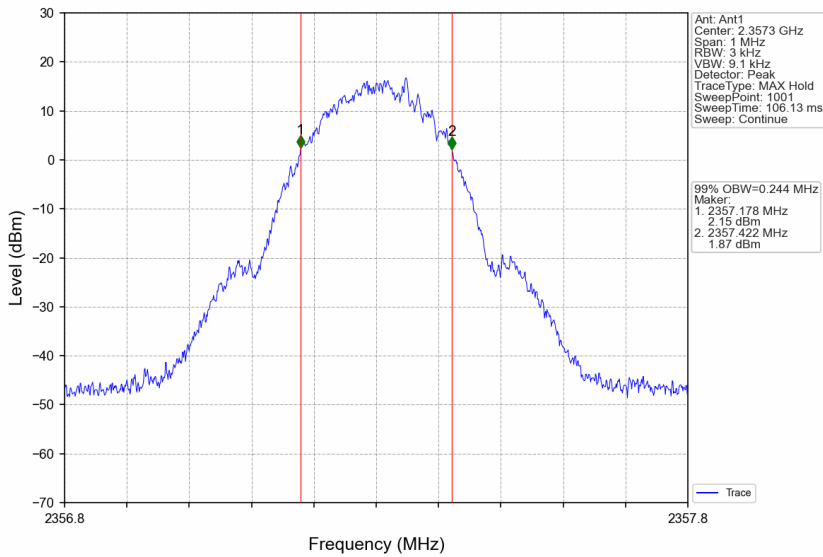


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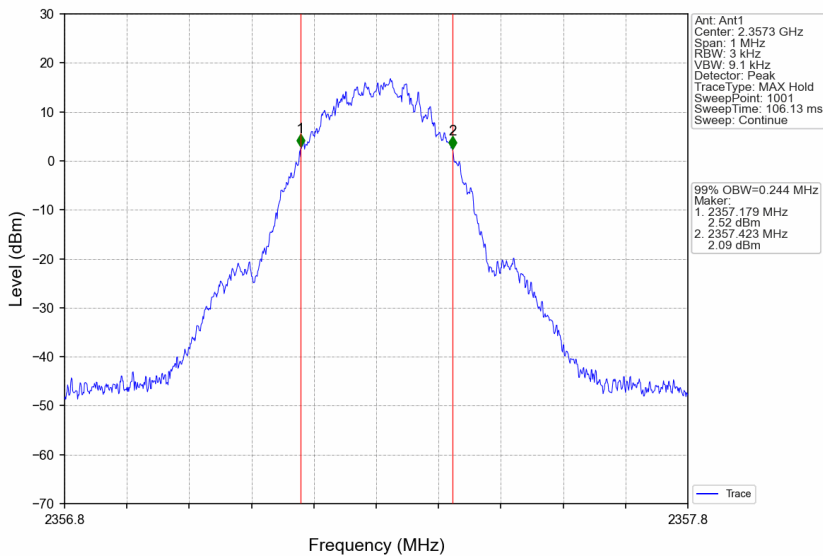
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Band30_2357.3MHz_GMSK_SISO_Ant1_NTNV_AGC



Band30_2357.3MHz_GMSK_SISO_Ant1_NTNV_AGC+3

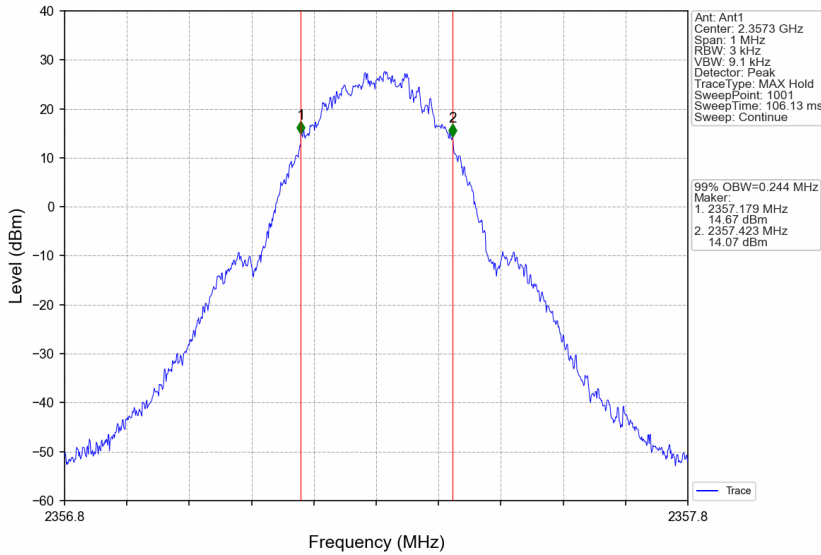


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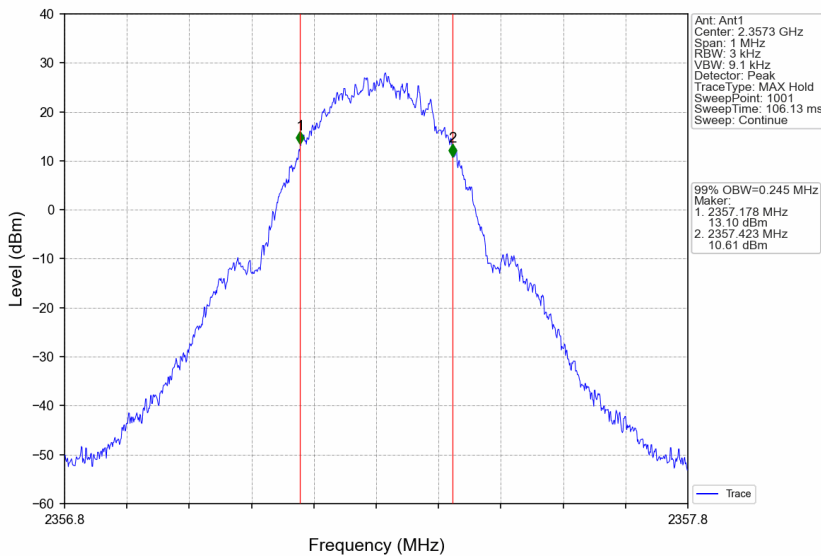
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Band30_2357.3MHz_GMSK_SISO_Ant1_NTNV_AGC



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3.2 Band30_EBW

3.2.1 Test Result

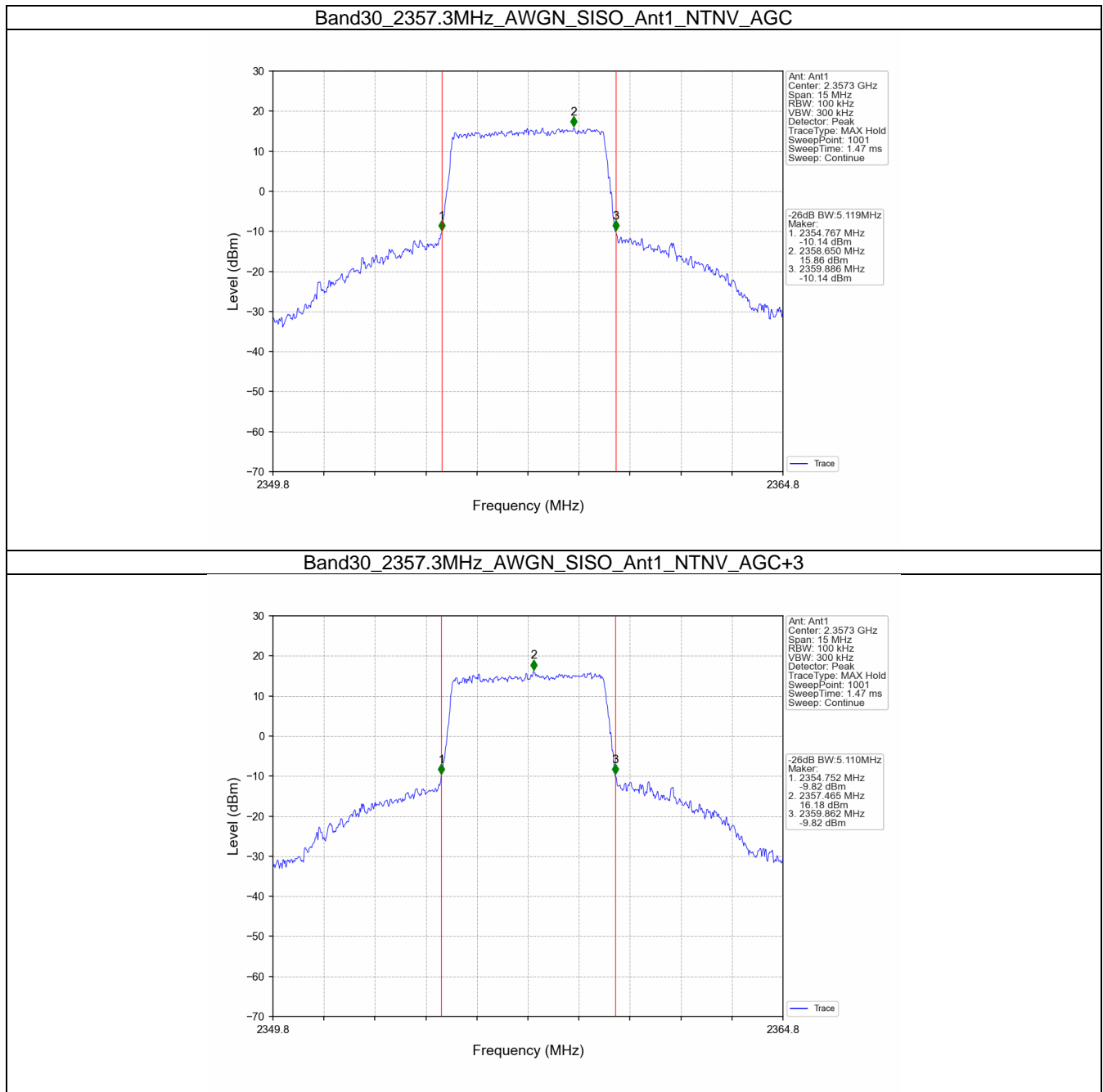
Band: 30 / NTNV							
Type	Signal		TX Type	ANT	26dB EBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	1	2357.3	SISO	1	5.119	5.061	Pass
	-2	2357.3	SISO	1	5.110	5.061	Pass
GMSK	2	2357.3	SISO	1	0.317	0.316	Pass
	-1	2357.3	SISO	1	0.314	0.314	Pass



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3.2.2 Test Graph



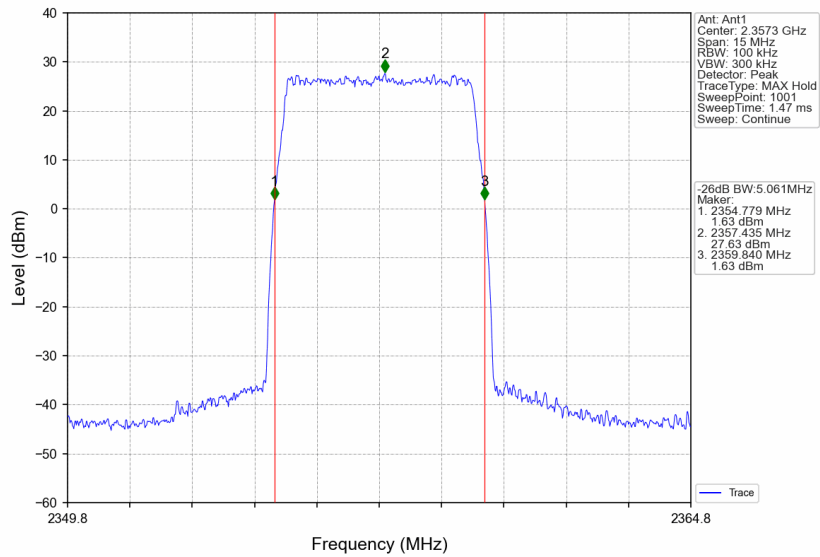
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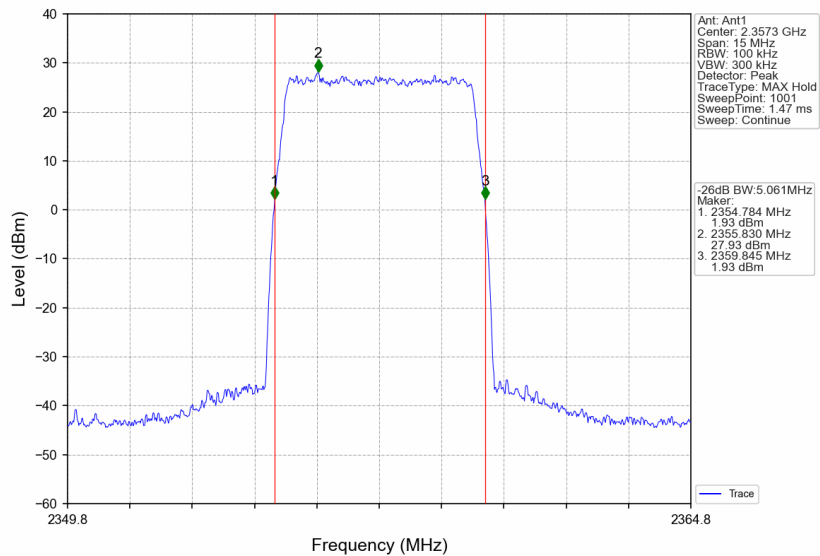
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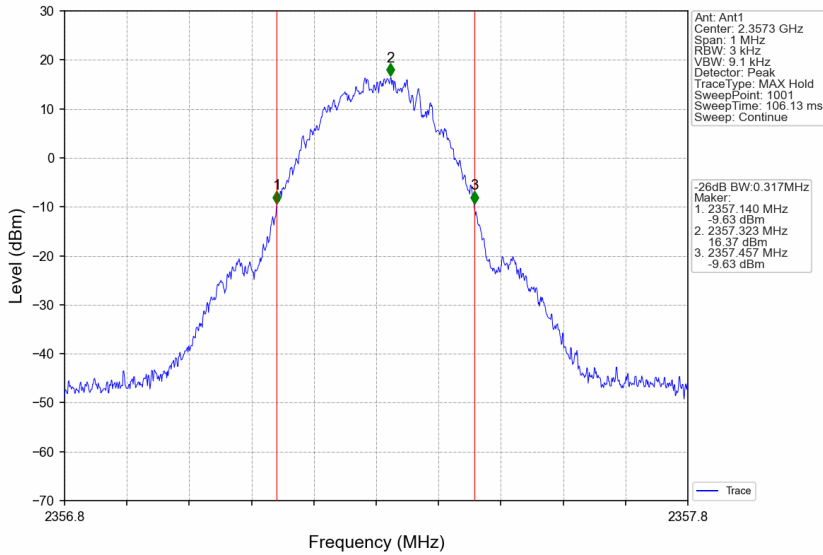


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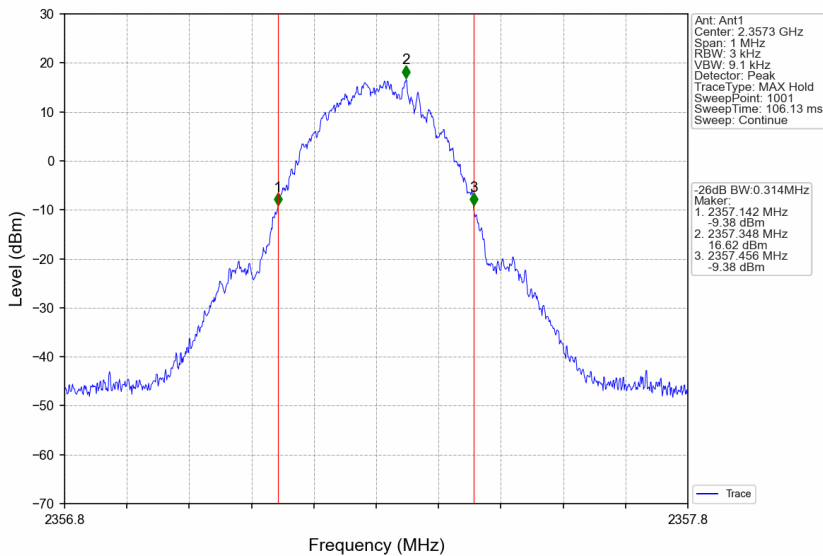
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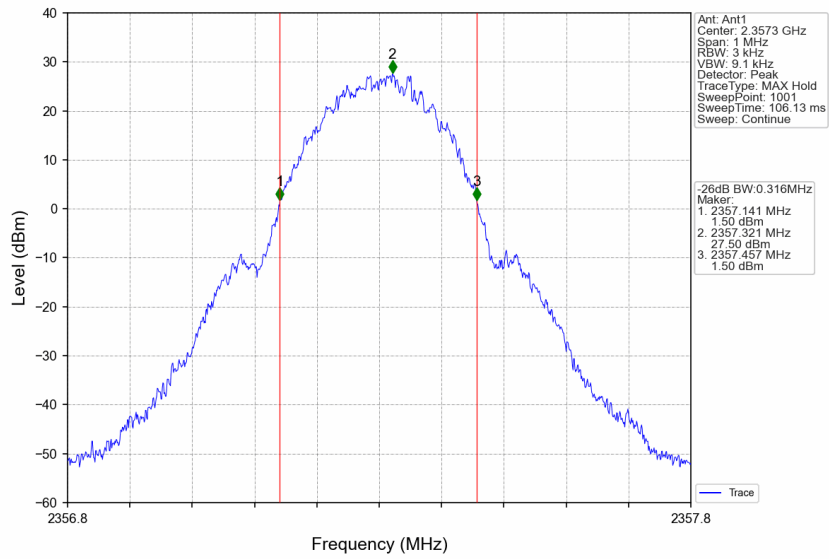
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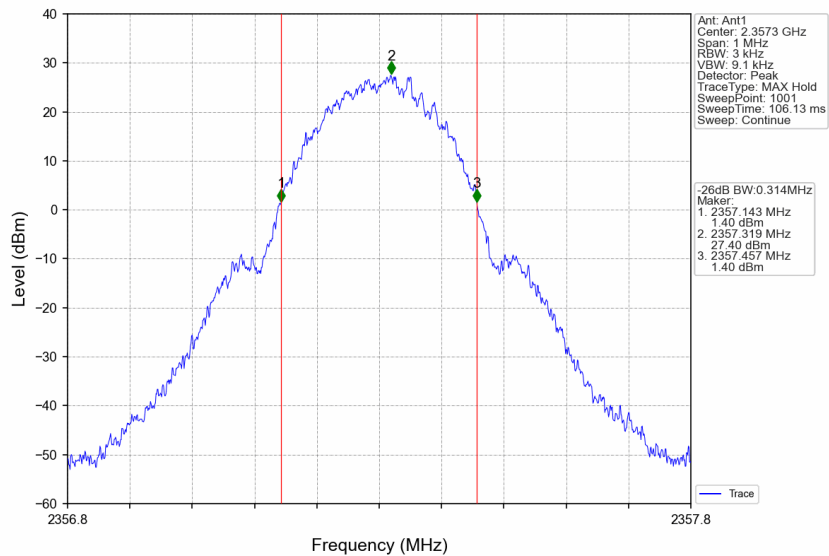
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Band30_2357.3MHz_GMSK_SISO_Ant1_NTNV_AGC



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4. Input/output power and amplifier/booster gain

4.1 Band30_EIRP

4.1.1 Test Result

2350MHz-2360MHz/ 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	2357.3	SISO	1	22.16	-1.86	25.93	<=63.01	24.02	Pass
	1	2357.3	SISO	1	22.80	1.13	26.57	<=63.01	/	Pass
GMSK	-1	2357.3	SISO	1	23.81	-0.61	27.58	<=63.01	24.43	Pass
	2	2357.3	SISO	1	23.87	2.37	27.64	<=63.01	/	Pass

2350MHz-2360MHz/ 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											
2350MHz-2360MHz	2357.3	AWGN	Pre-AGC	-2	22.16	--	--	--	22.16	25.93	24.02
			3dB Above AGC	1	22.80	--	--	--	22.80	26.57	/
		GMSK	Pre-AGC	-1	23.81	--	--	--	23.81	27.58	24.43
			3dB Above AGC	2	23.87	--	--	--	23.87	27.64	/

2350MHz-2360MHz / 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											
2350MHz-2360MHz	2357.3	AWGN	Pre-AGC	-2	22.16	25.17	28.18	25.93	28.94	31.95	/
			3dB Above AGC	1	22.80	25.81	28.82	26.57	29.58	32.59	/
		GMSK	Pre-AGC	-1	23.81	26.82	29.83	27.58	30.59	33.60	/
			3dB Above AGC	2	23.87	26.88	29.89	27.64	30.65	33.66	/



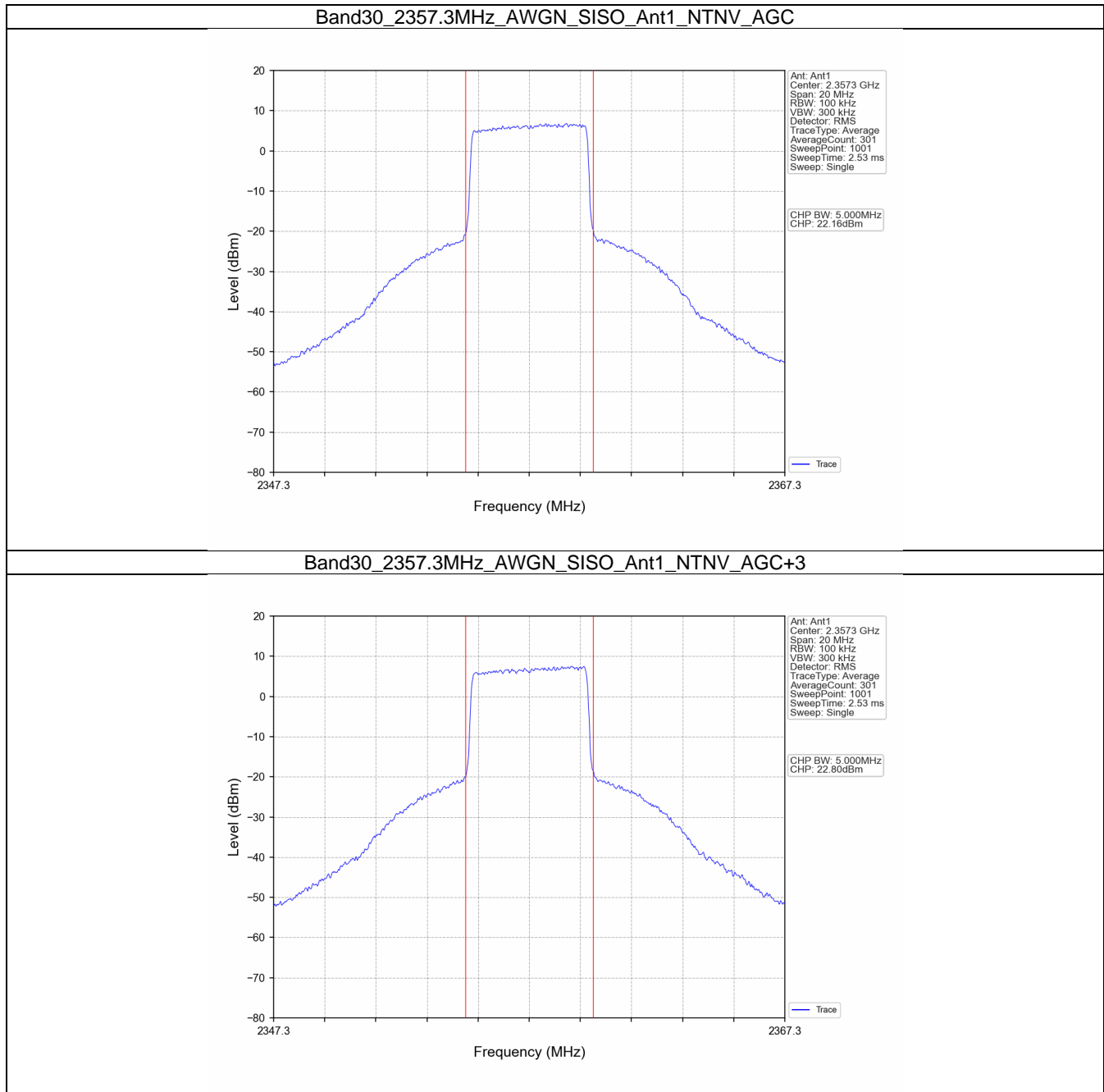
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4.1.2 Test Graph

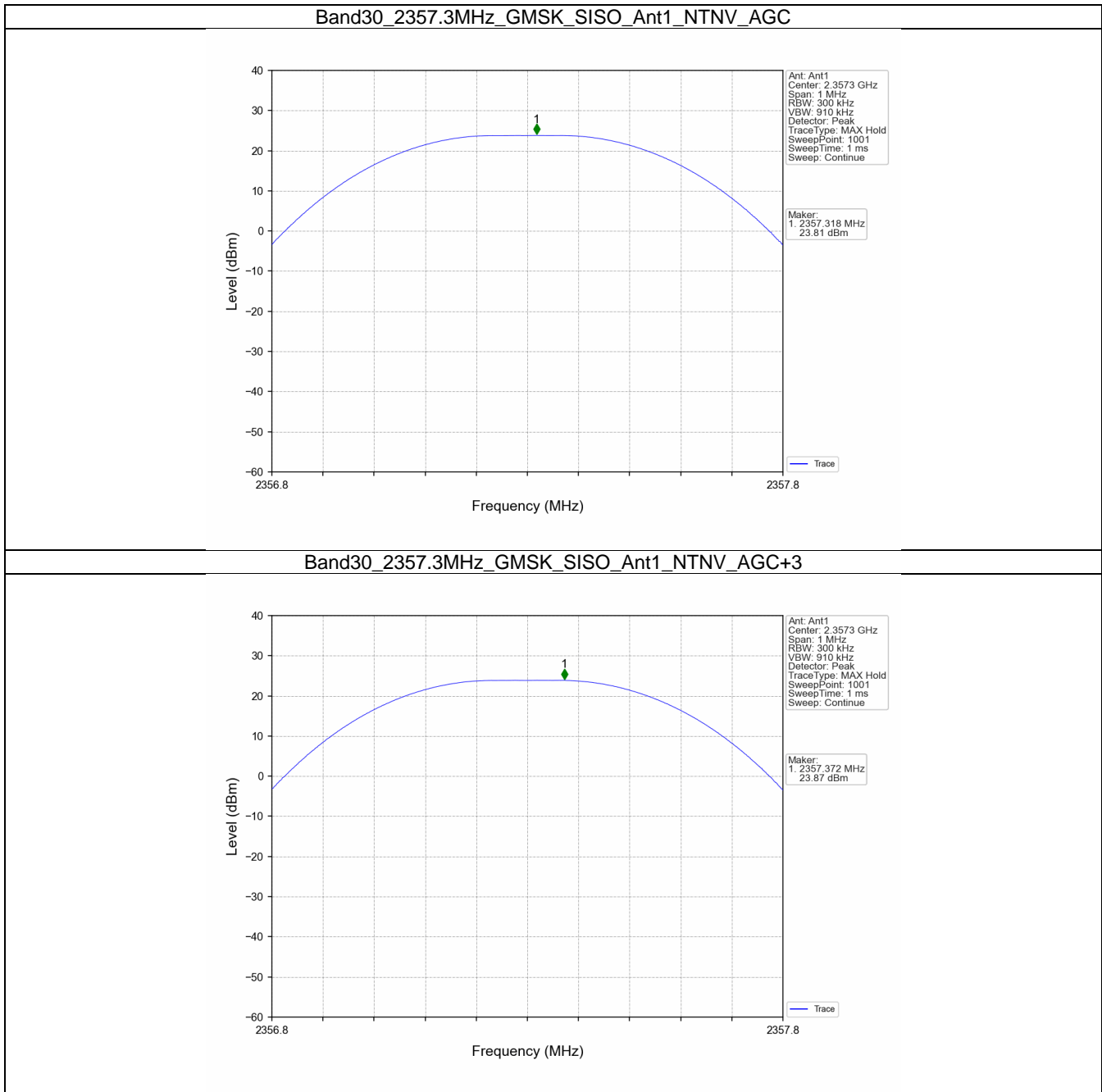


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4.2 Band30_PAPR

4.2.1 Test Result

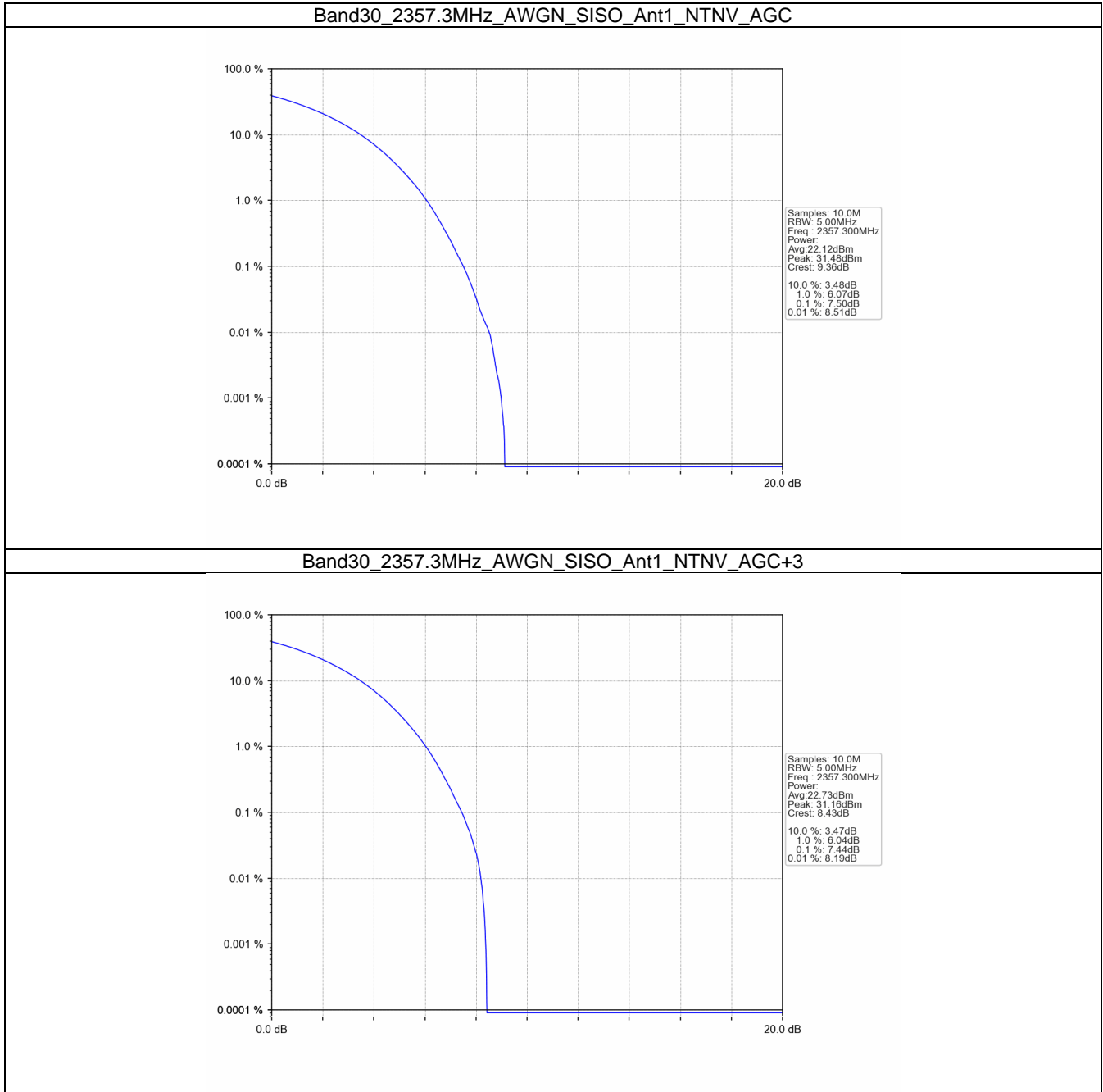
Band: 30 / NTNV							
Type	Signal		TX Type	ANT	PAPR (dB)		Verdict
	Level (dBm)	Frequency (MHz)			Result	Limit	
AWGN	-2	2357.3	SISO	1	7.50	<=13	Pass
	1	2357.3	SISO	1	7.44	<=13	Pass
GMSK	-1	2357.3	SISO	1	0.44	<=13	Pass
	2	2357.3	SISO	1	0.30	<=13	Pass



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4.2.2 Test Graph



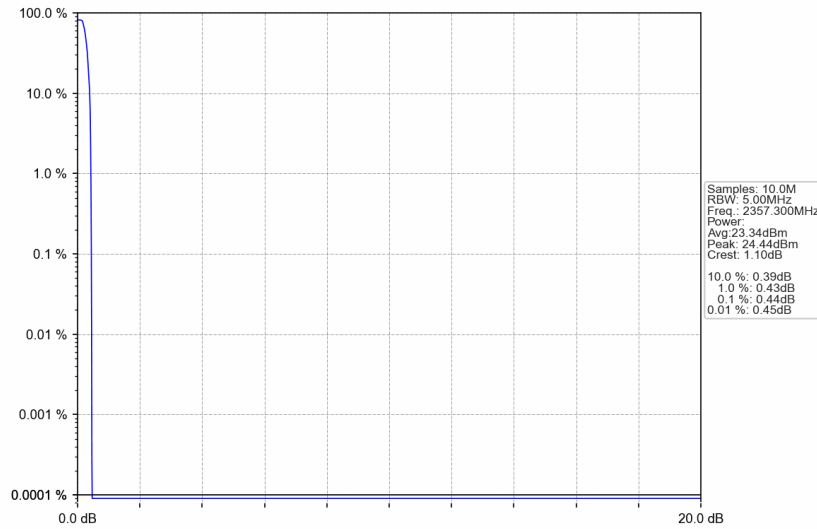
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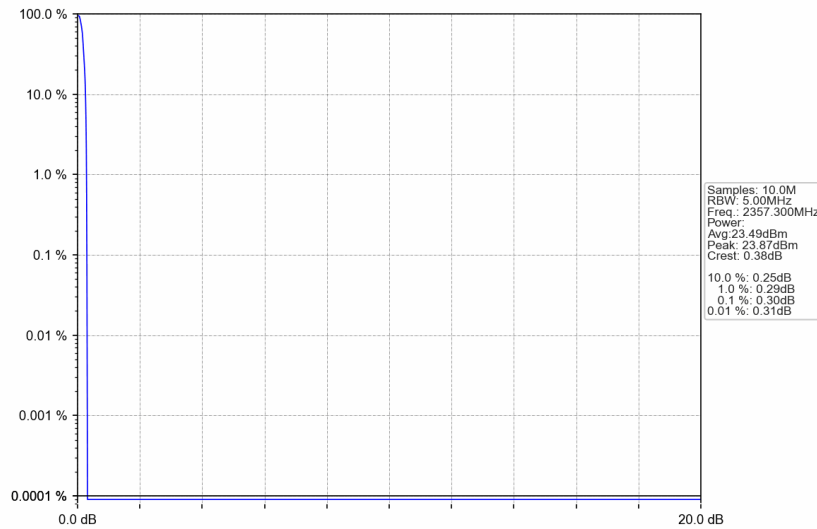
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Band30_2357.3MHz_GMSK_SISO_Ant1_NTNV_AGC



Band30_2357.3MHz_GMSK_SISO_Ant1_NTNV_AGC+3



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

5.1 Band30

5.1.1 Test Result

Band: 30 / NTNV									
Input	Type	Signal		Channel	TX Type	ANT	OOB (dBm)		Verdict
		Level (dBm)	Frequency (MHz)				Result	Limit	
Two	AWGN	-2	2352.5	LCH	SISO	1	-79.87	Refer To Test Graph	Pass
		1	2352.5	LCH	SISO	1	-79.84	Refer To Test Graph	Pass
One	AWGN	-2	2352.5	LCH	SISO	1	-79.81	Refer To Test Graph	Pass
		1	2352.5	LCH	SISO	1	-80.00	Refer To Test Graph	Pass
Two	AWGN	-2	2357.5	HCH	SISO	1	-79.92	Refer To Test Graph	Pass
		1	2357.5	HCH	SISO	1	-79.87	Refer To Test Graph	Pass
One	AWGN	-2	2357.5	HCH	SISO	1	-79.77	Refer To Test Graph	Pass
		1	2357.5	HCH	SISO	1	-79.92	Refer To Test Graph	Pass
Two	GMSK	-1	2350.1	LCH	SISO	1	-79.80	Refer To Test Graph	Pass
		2	2350.1	LCH	SISO	1	-79.90	Refer To Test Graph	Pass
One	GMSK	-1	2350.1	LCH	SISO	1	-79.49	Refer To Test Graph	Pass
		2	2350.1	LCH	SISO	1	-79.64	Refer To Test Graph	Pass
Two	GMSK	-1	2359.9	HCH	SISO	1	-79.99	Refer To Test Graph	Pass
		2	2359.9	HCH	SISO	1	-79.88	Refer To Test Graph	Pass
One	GMSK	-1	2359.9	HCH	SISO	1	-79.64	Refer To Test Graph	Pass
		2	2359.9	HCH	SISO	1	-79.98	Refer To Test Graph	Pass

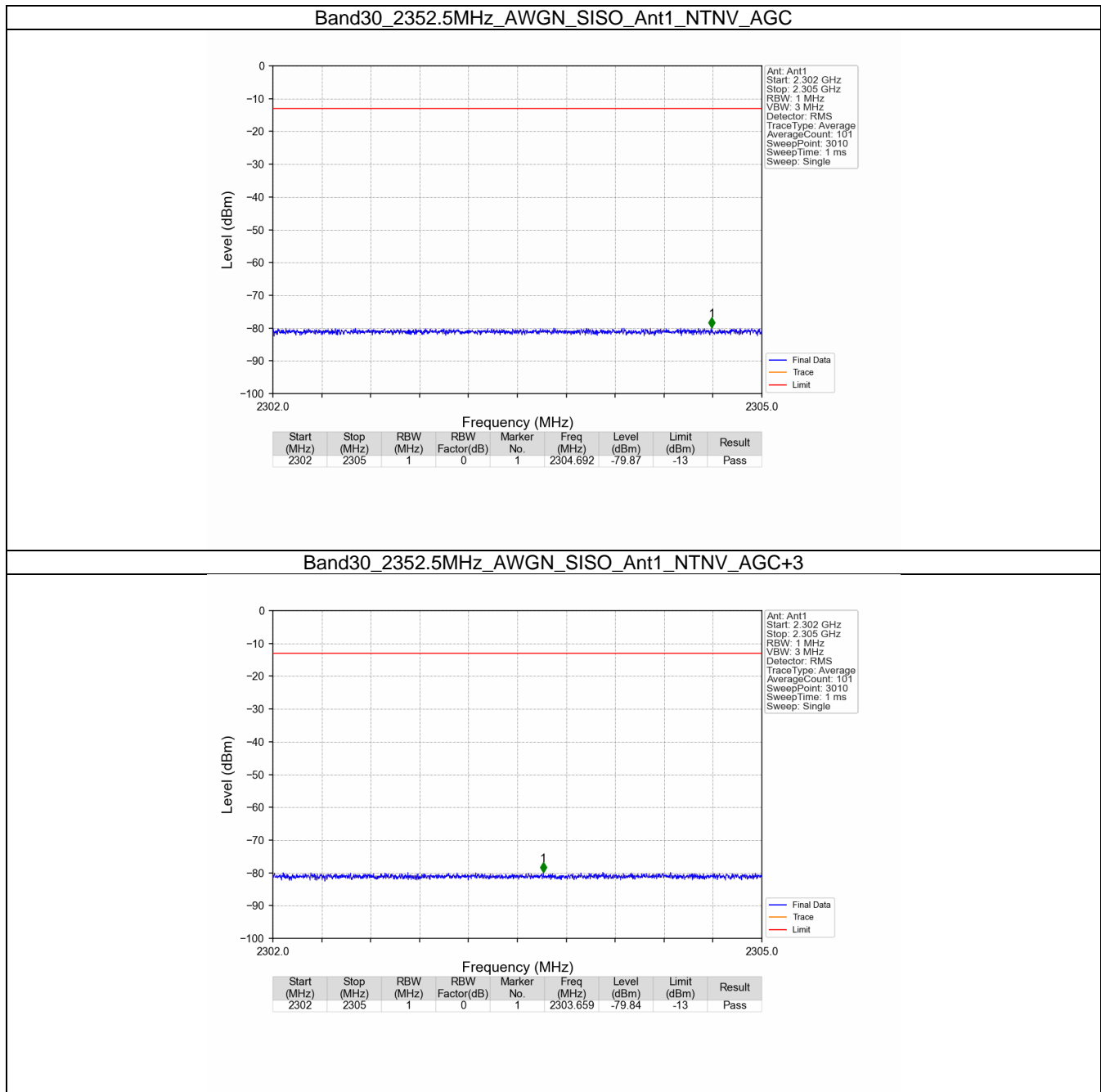


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5.1.2 Test Graph



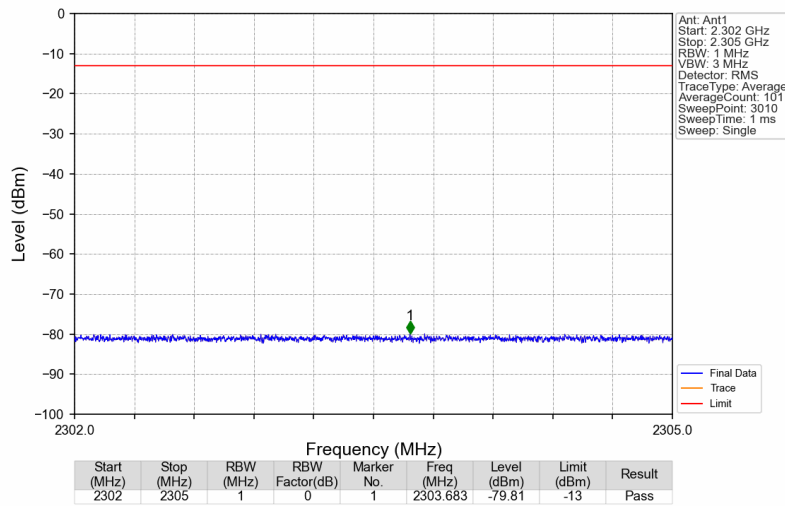
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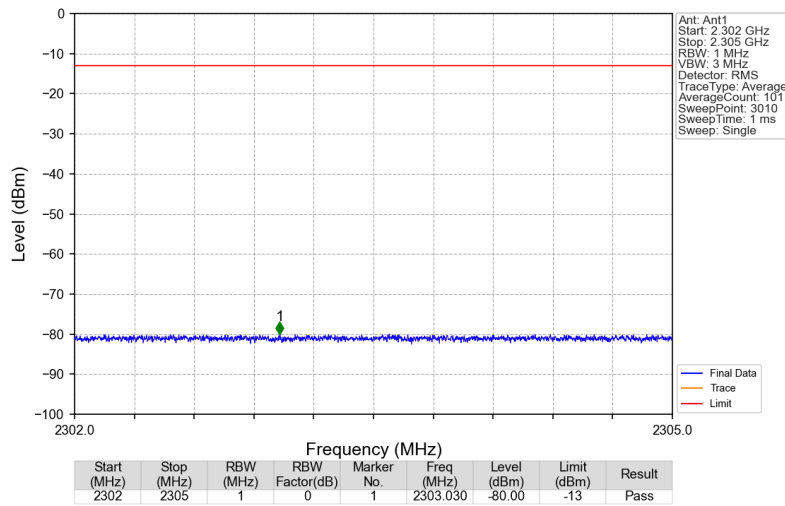
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Band30_2352.5MHz_AWGN_SISO_Ant1_NTNV_AGC



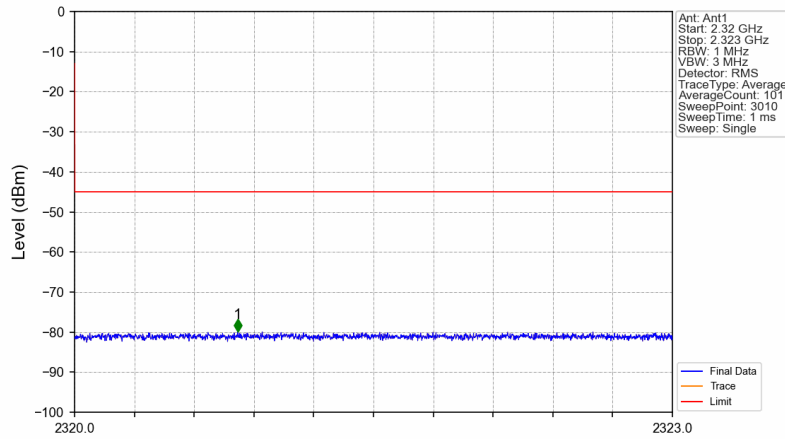
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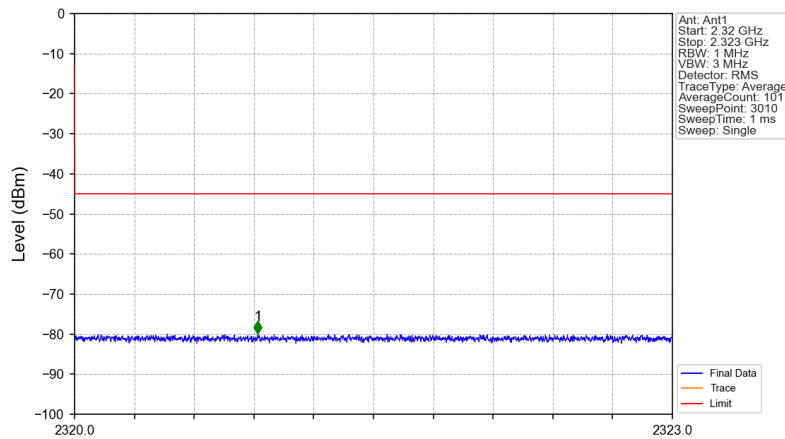
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Band30_2357.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2320	2323	1	0	1	2320.819	-79.92	-45	Pass

Band30_2357.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2320	2323	1	0	1	2320.919	-79.87	-45	Pass

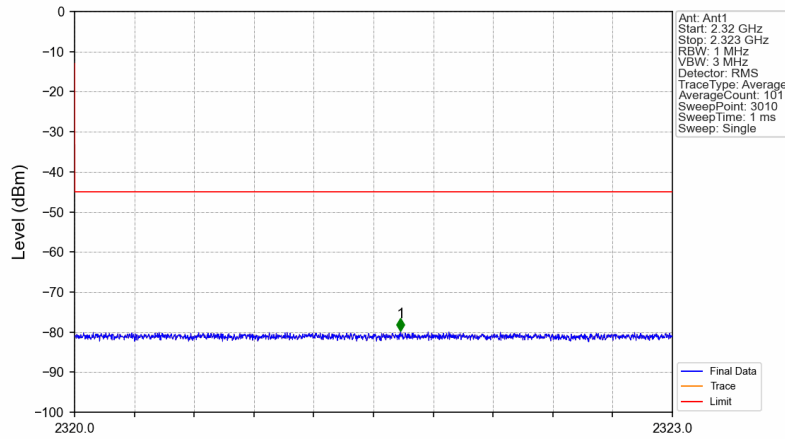


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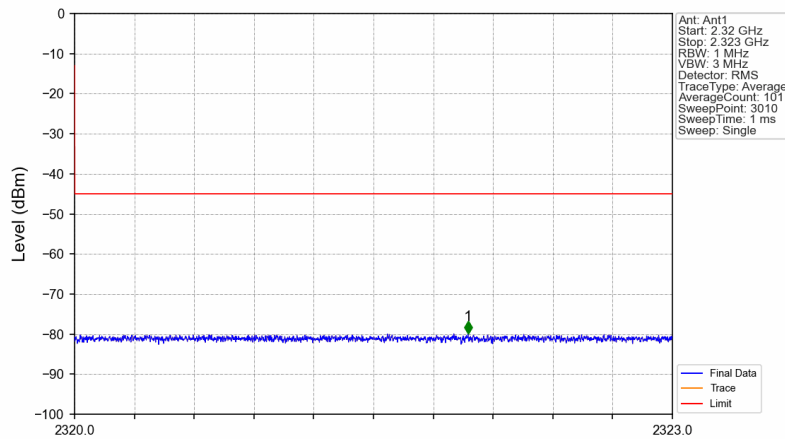
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Band30_2357.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2320	2323	1	0	1	2321.636	-79.77	-45	Pass

Band30_2357.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2320	2323	1	0	1	2321.974	-79.92	-45	Pass

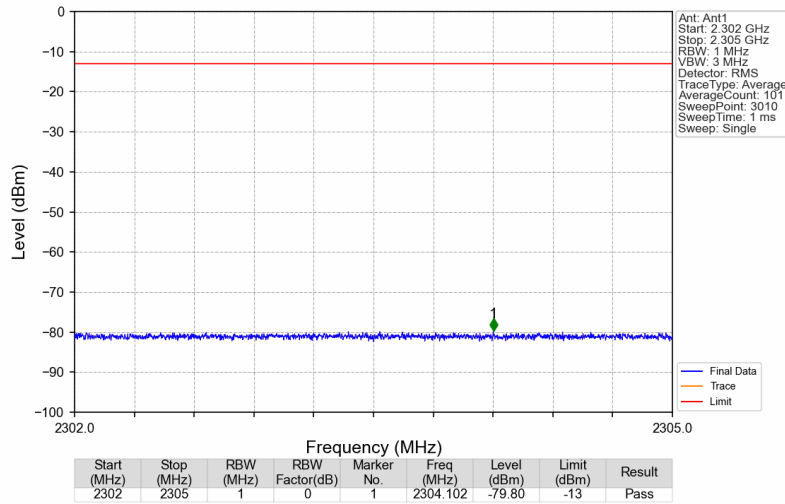


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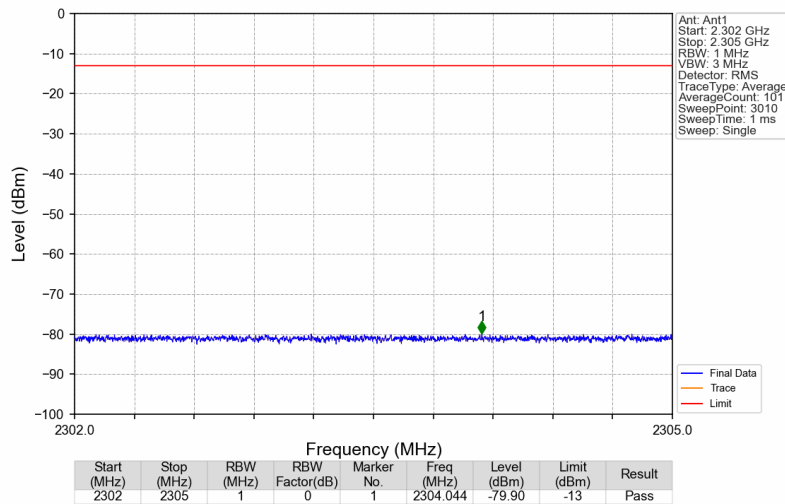
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Band30_2350.1MHz_GMSK_SISO_Ant1_NTNV_AGC



Band30_2350.1MHz_GMSK_SISO_Ant1_NTNV_AGC+3

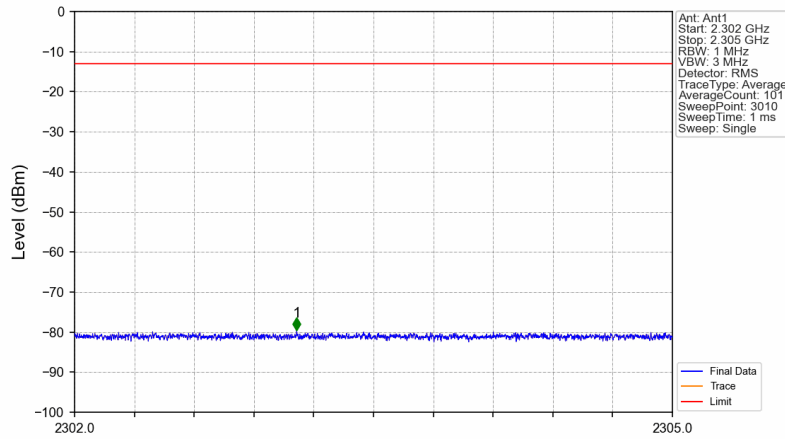


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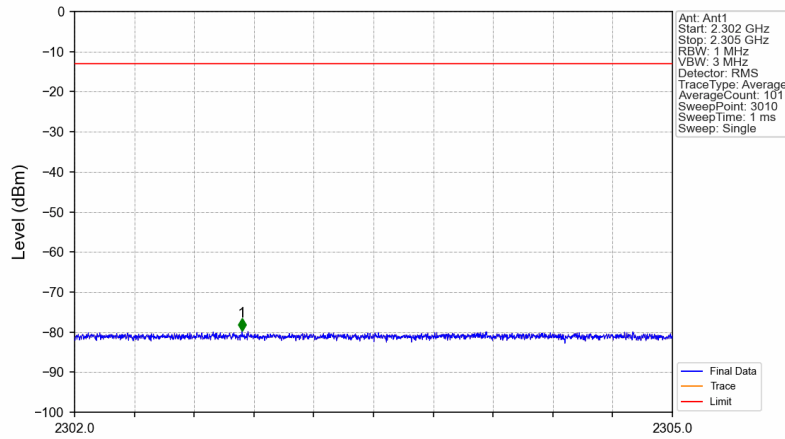
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Band30_2350.1MHz_GMSK_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2302	2305	1	0	1	2303.115	-79.49	-13	Pass

Band30_2350.1MHz_GMSK_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2302	2305	1	0	1	2302.840	-79.64	-13	Pass

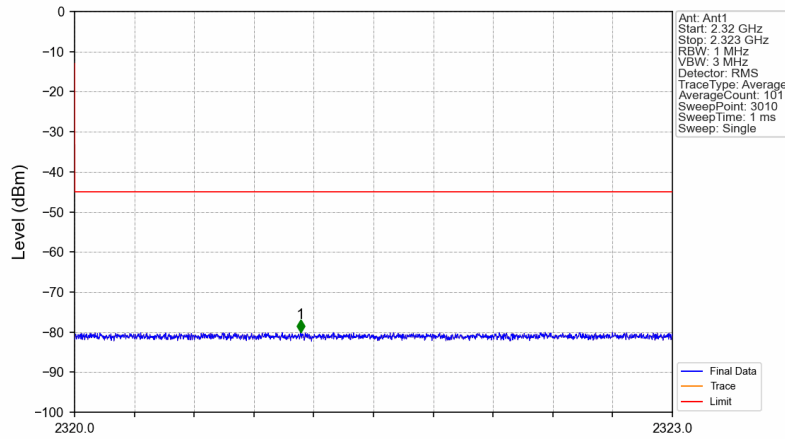


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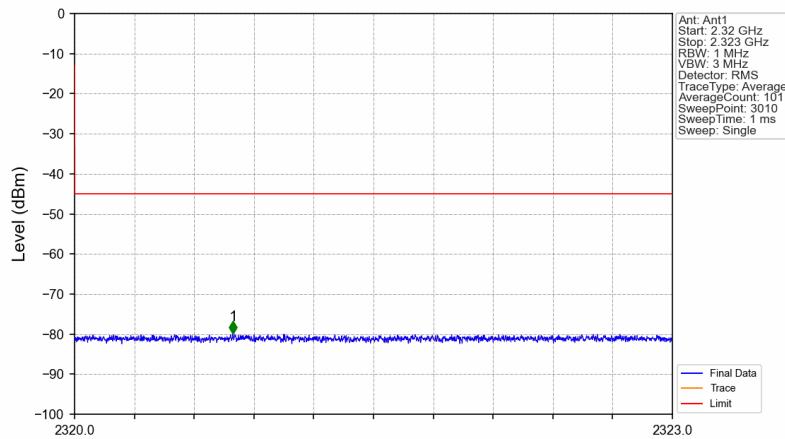
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Band30_2359.9MHz_GMSK_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2320	2323	1	0	1	2321.134	-79.99	-45	Pass

Band30_2359.9MHz_GMSK_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2320	2323	1	0	1	2320.795	-79.88	-45	Pass

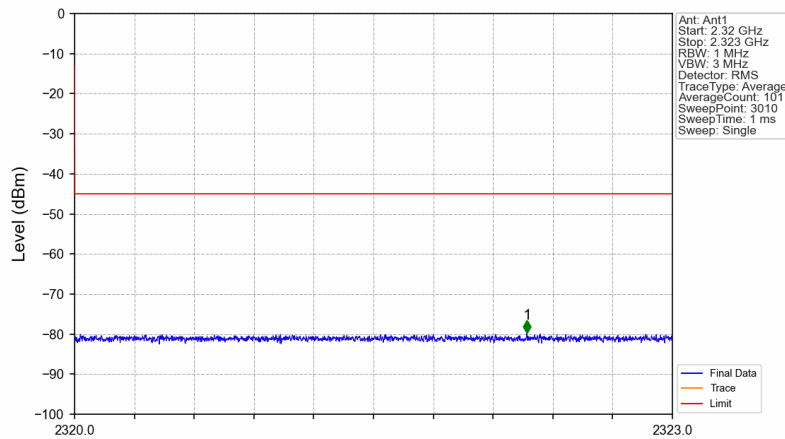


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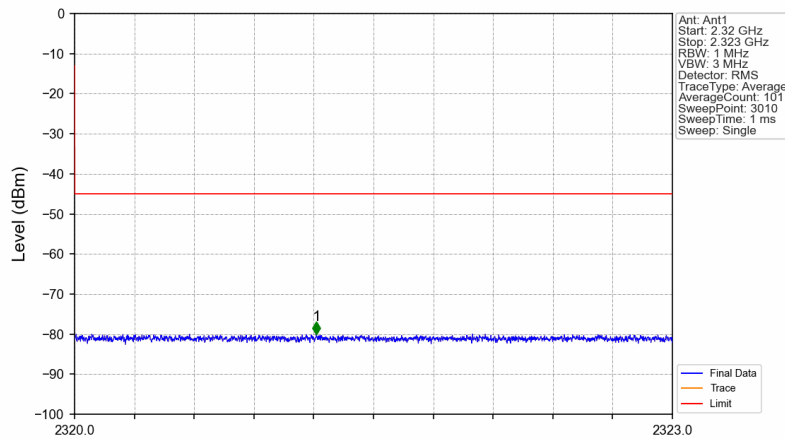
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Band30_2359.9MHz_GMSK_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2320	2323	1	0	1	2322.270	-79.64	-45	Pass

Band30_2359.9MHz_GMSK_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2320	2323	1	0	1	2321.213	-79.98	-45	Pass



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6. Spurious emissions

6.1 Band30

6.1.1 Test Result

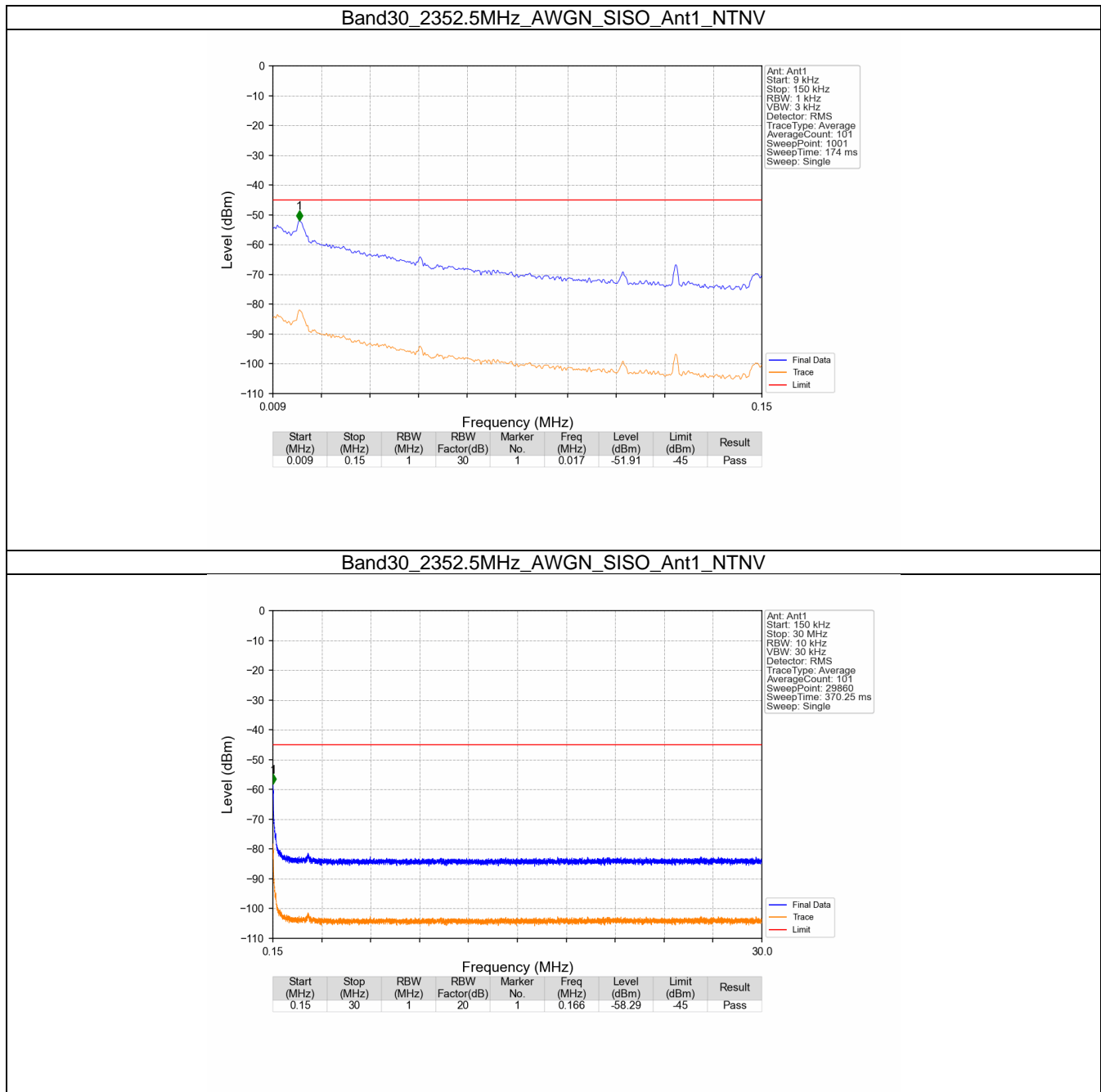
Band: 30 / NTNV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
AWGN	-2	2352.5	LCH	SISO	1	Refer To Test Graph		Pass
		2355	MCH	SISO	1	Refer To Test Graph		Pass
		2357.5	HCH	SISO	1	Refer To Test Graph		Pass
GMSK	-1	2350.1	LCH	SISO	1	Refer To Test Graph		Pass
		2355	MCH	SISO	1	Refer To Test Graph		Pass
		2359.9	HCH	SISO	1	Refer To Test Graph		Pass



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6.1.2 Test Graph



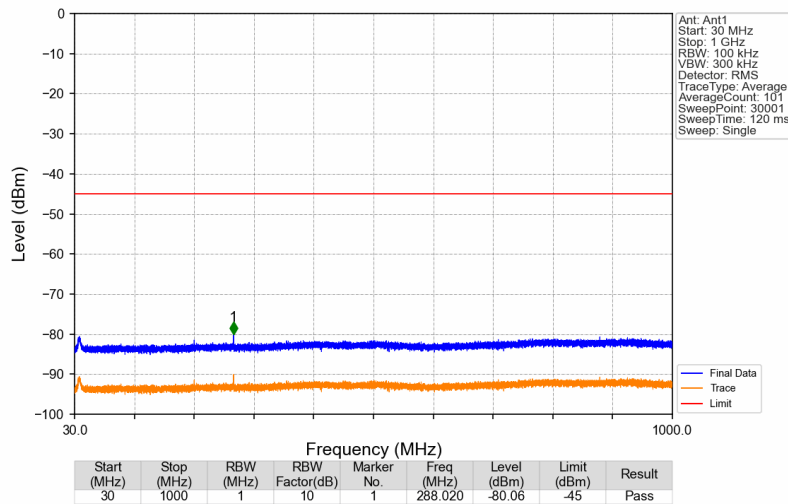
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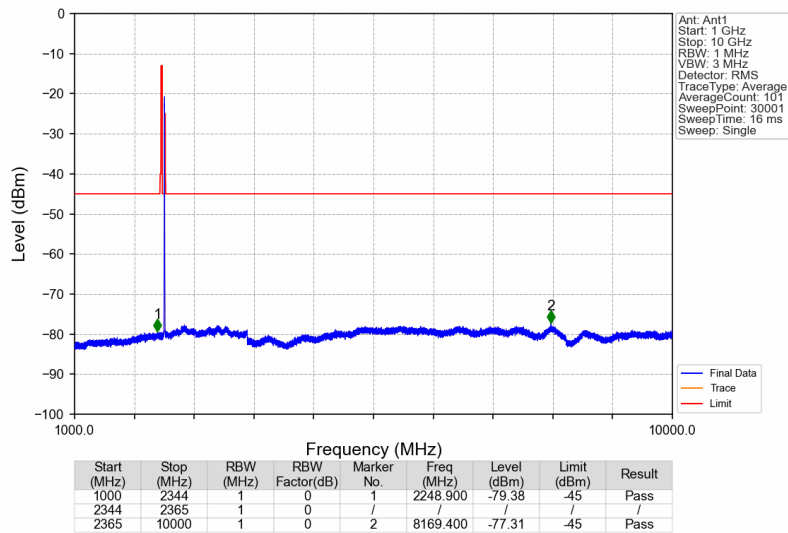
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Band30_2352.5MHz_AWGN_SISO_Ant1_NTNV



Band30_2352.5MHz_AWGN_SISO_Ant1_NTNV

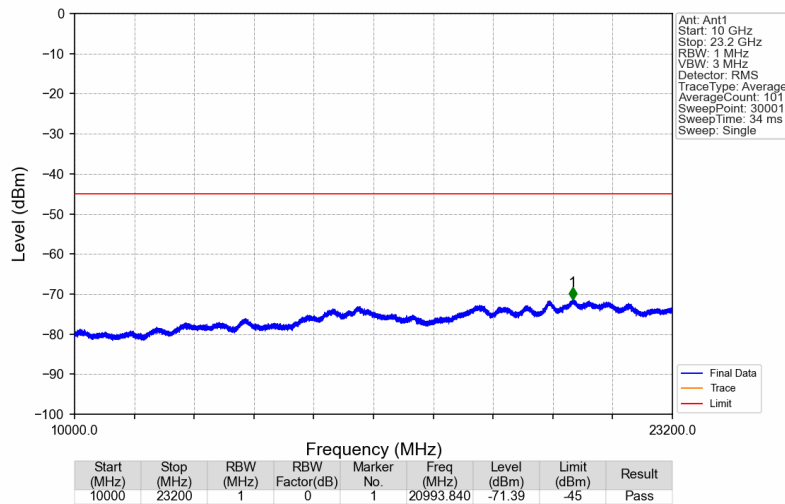


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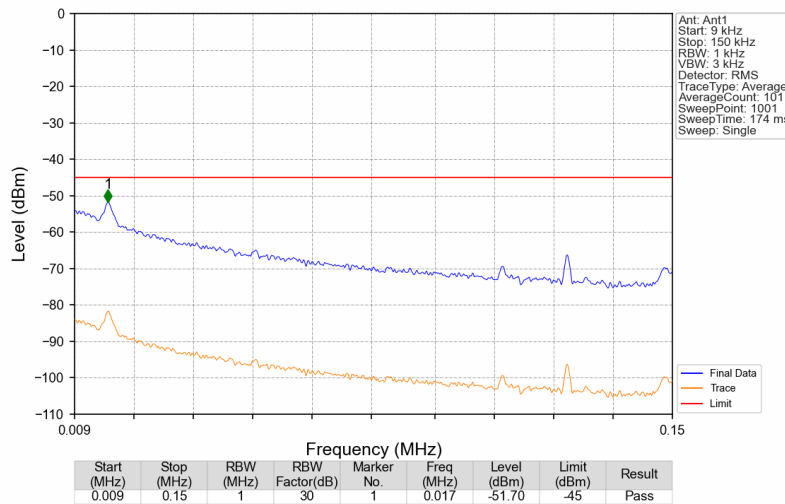
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Band30_2355MHz_AWGN_SISO_Ant1_NTNV

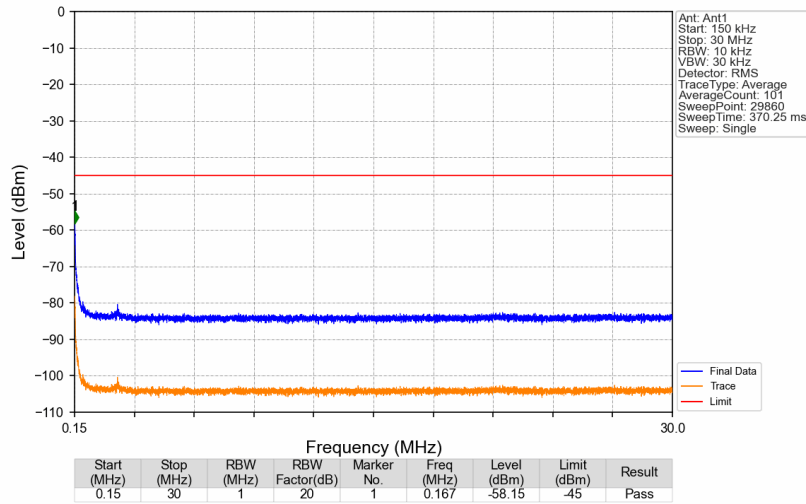


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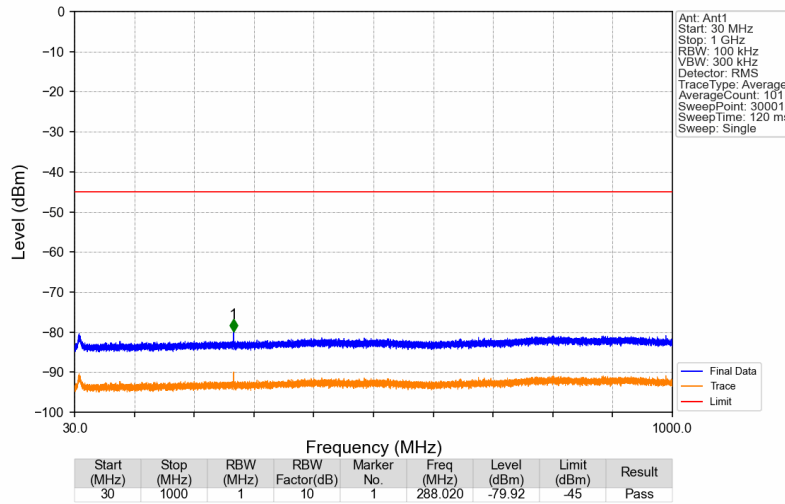
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Band30_2355MHz_AWGN_SISO_Ant1_NTNV

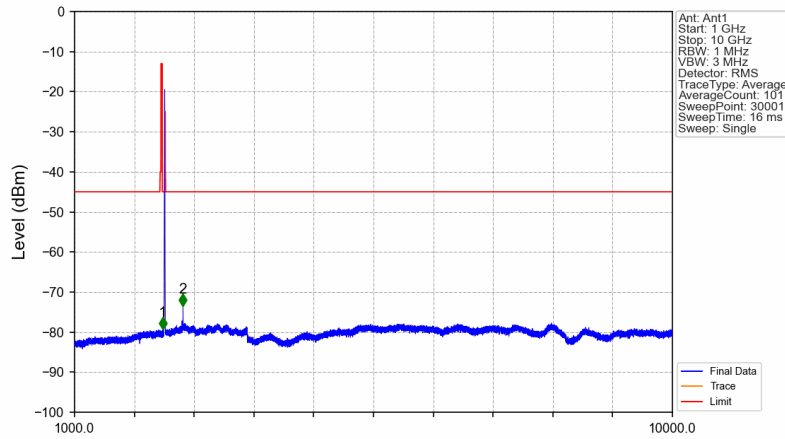


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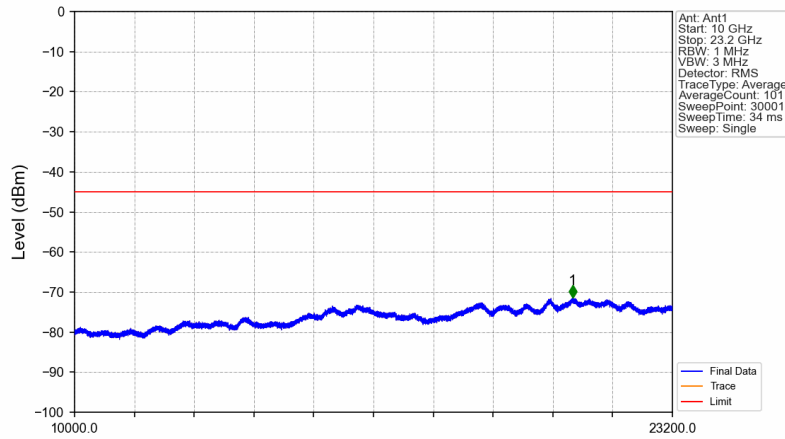
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Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2344	1	0	1	2327.200	-79.39	-45	Pass
2344	2365	1	0	/	/	/	/	/
2365	10000	1	0	2	2632.900	-73.52	-45	Pass

Band30_2355MHz_AWGN_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	23200	1	0	1	20995.600	-71.43	-45	Pass

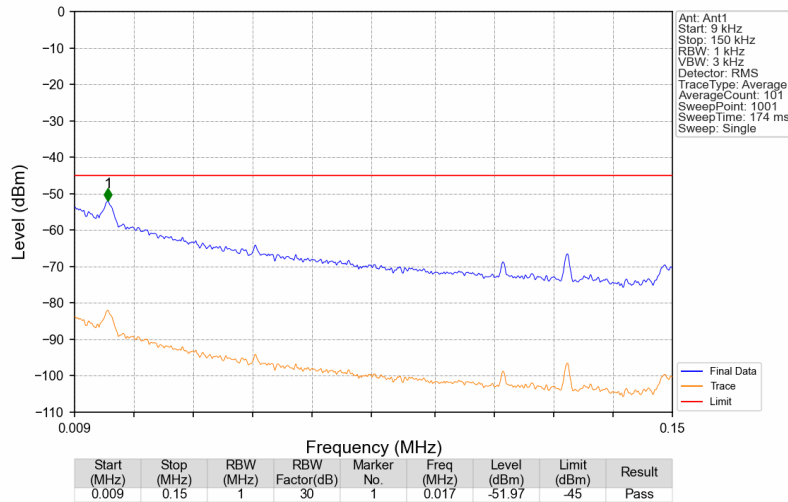


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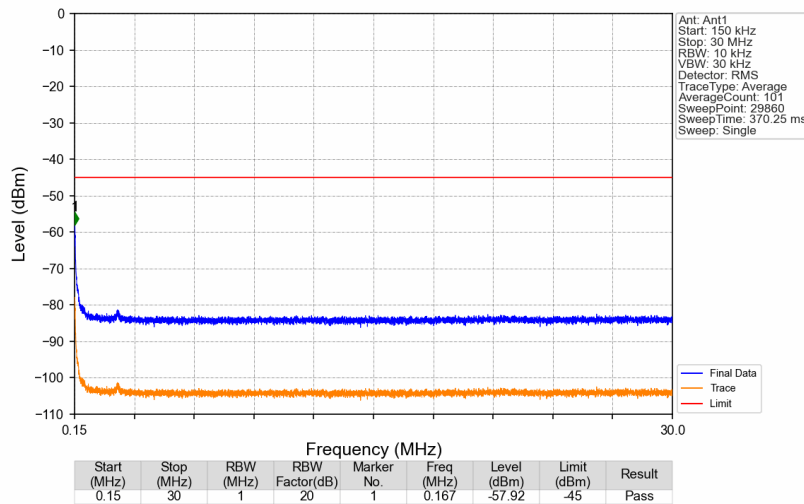
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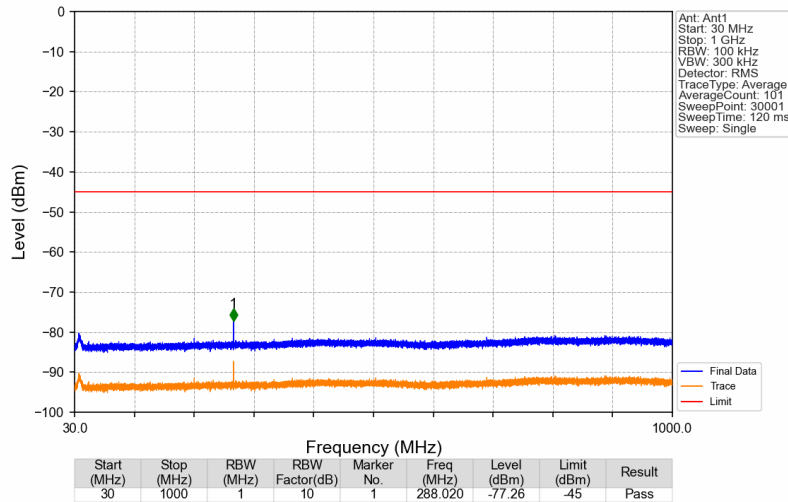


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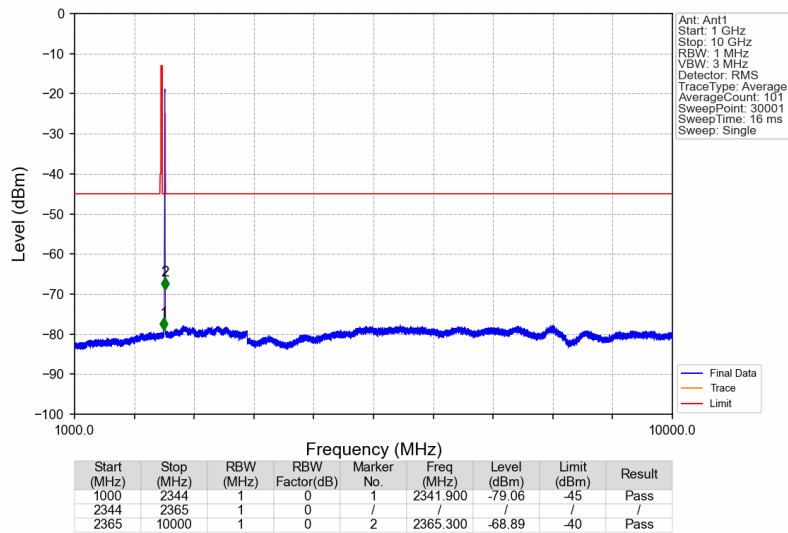
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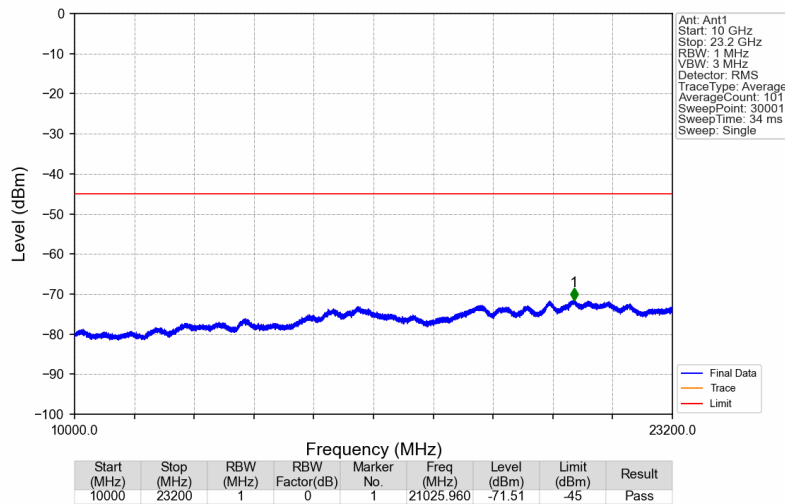


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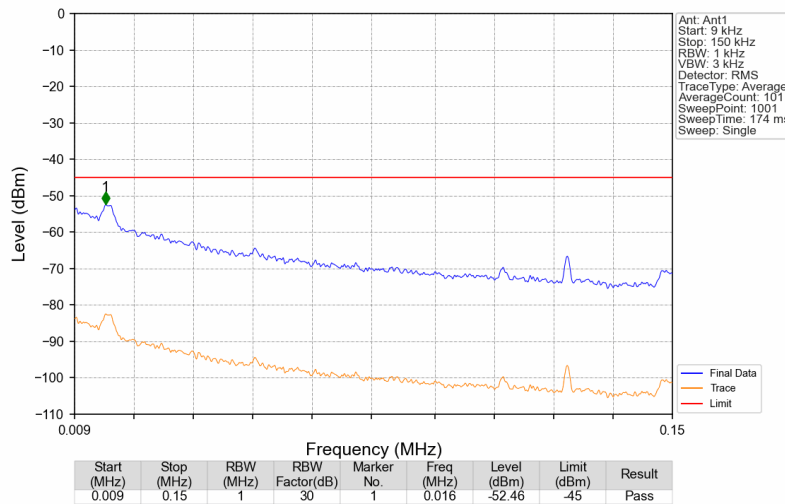
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Band30_2350.1MHz_GMSK_SISO_Ant1_NTNV

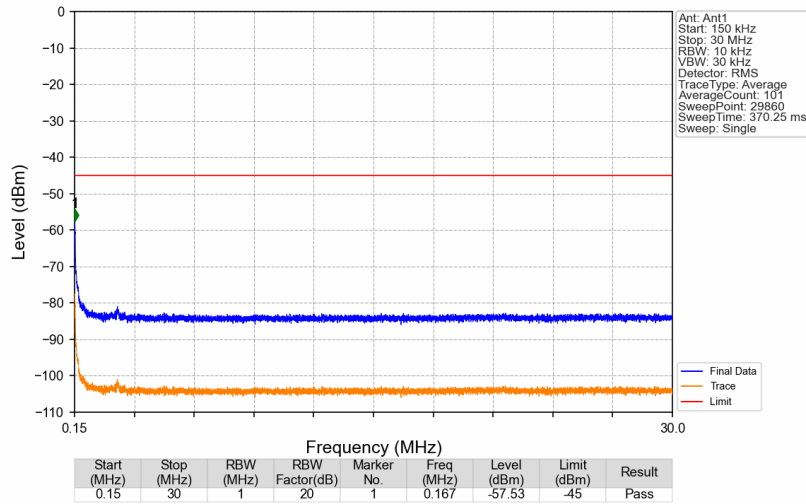


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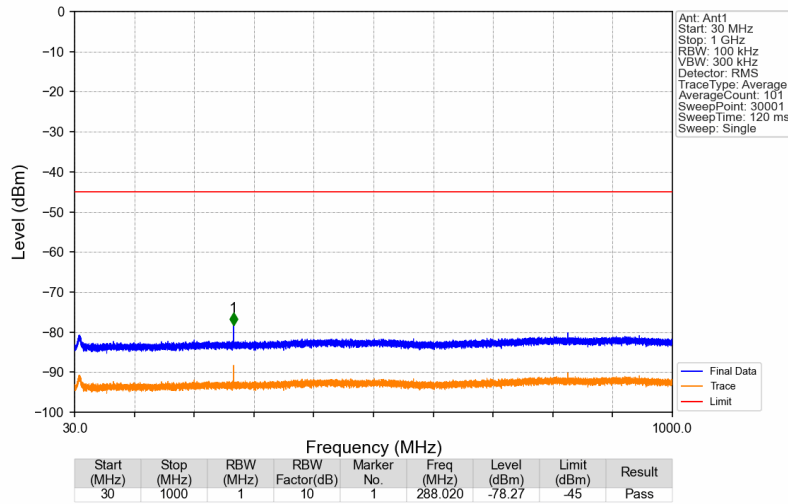
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Band30_2350.1MHz_GMSK_SISO_Ant1_NTNV



Band30_2350.1MHz_GMSK_SISO_Ant1_NTNV

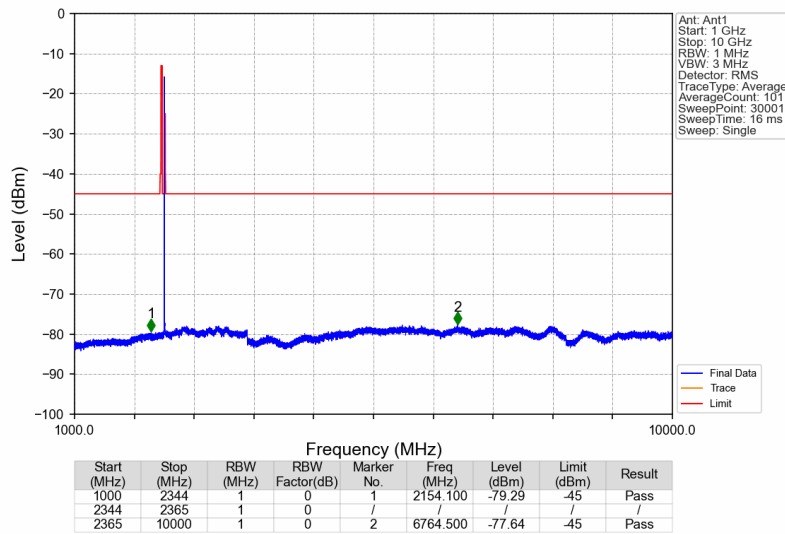


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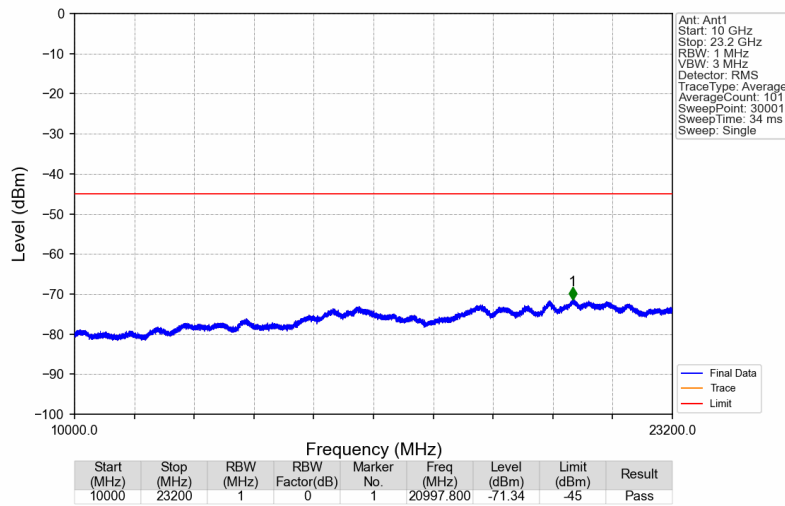
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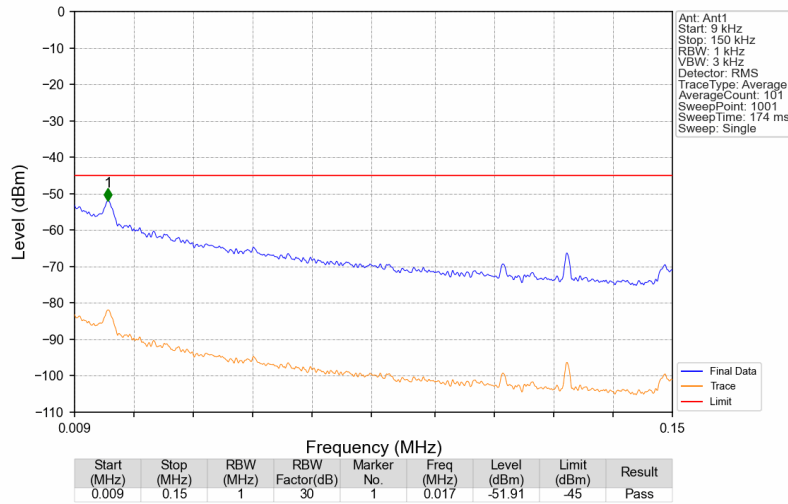


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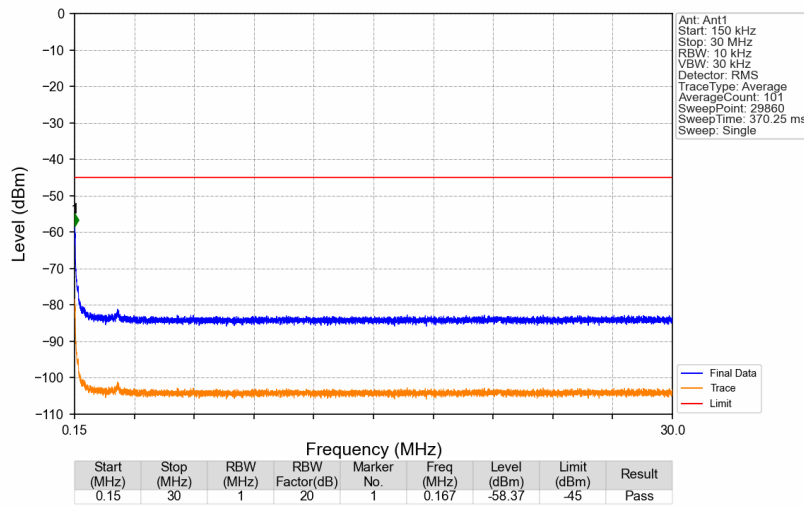
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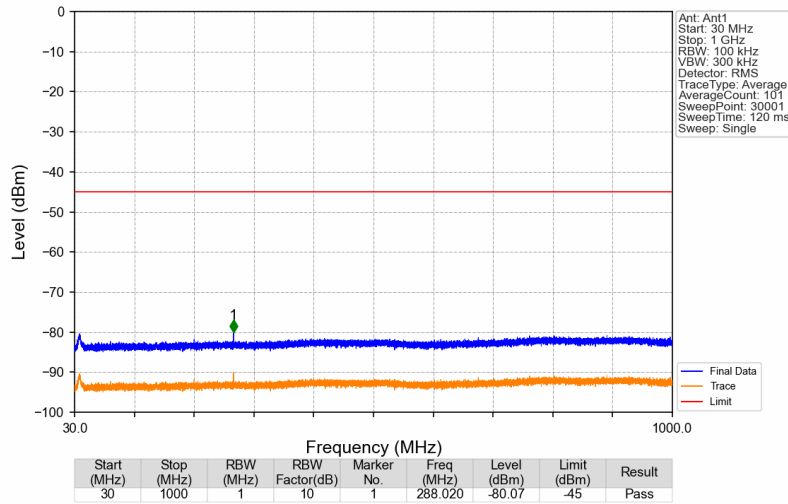


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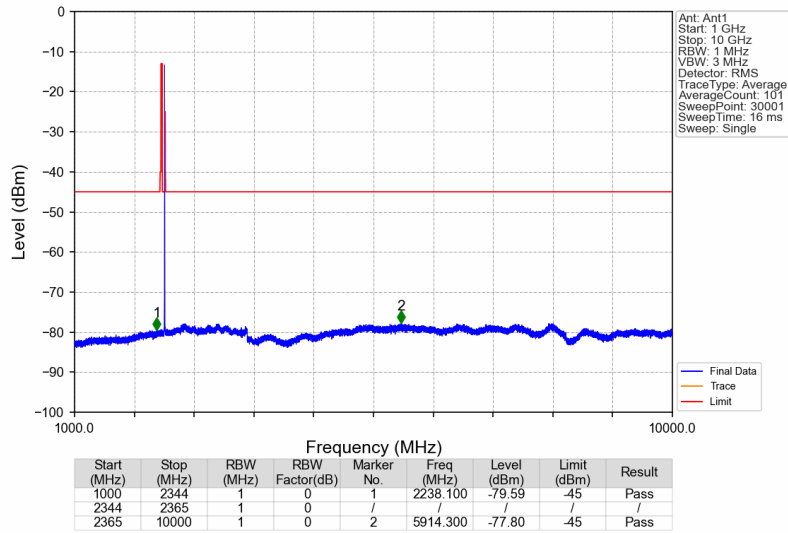
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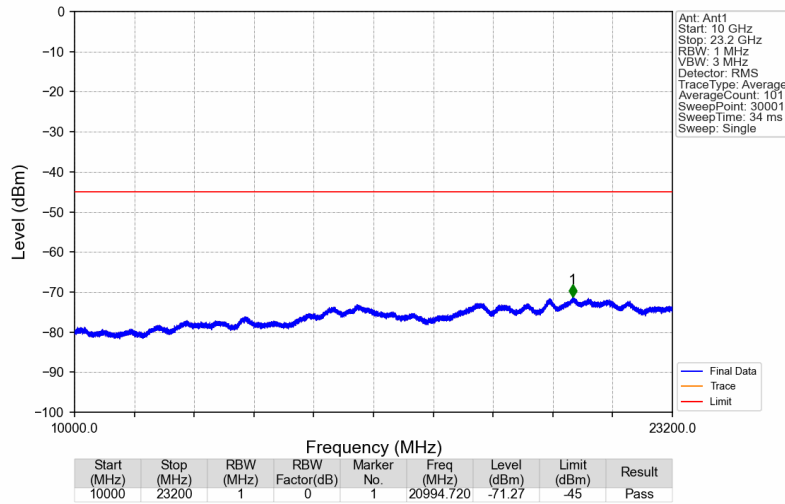


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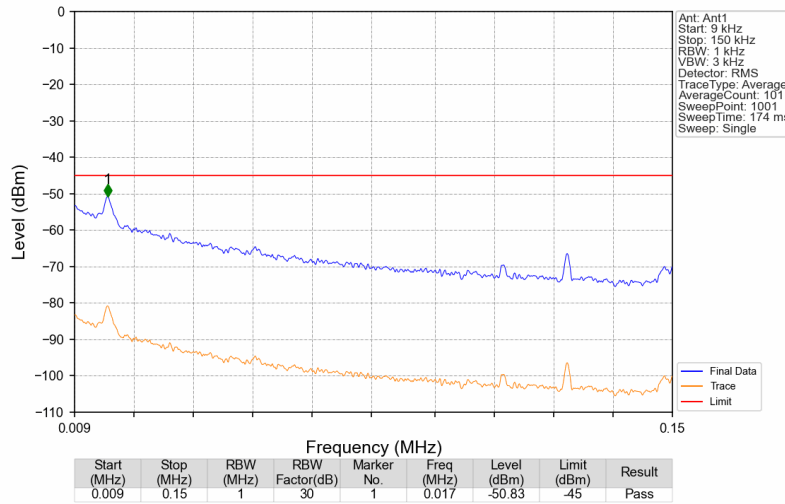
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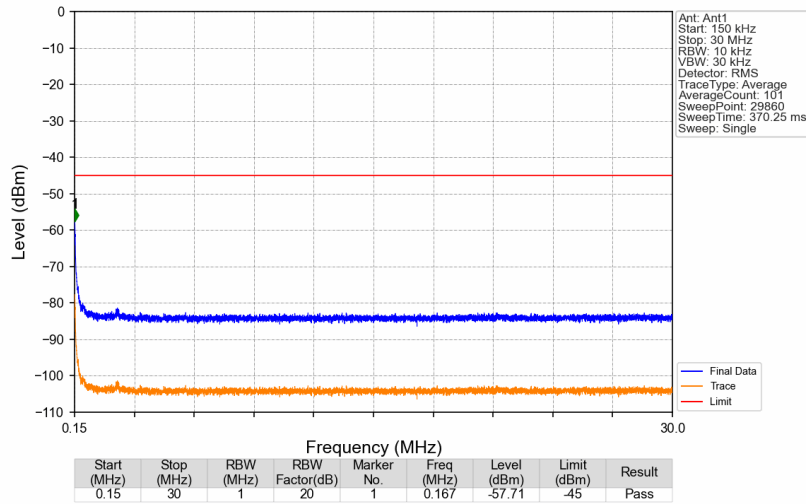


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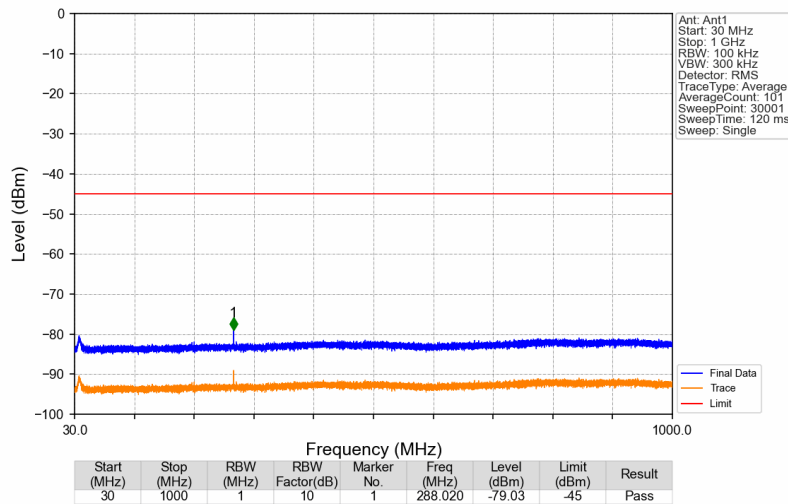
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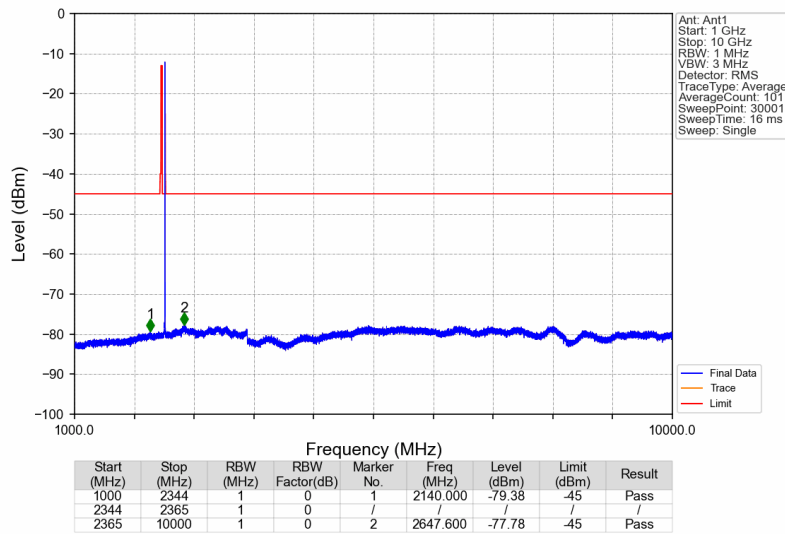
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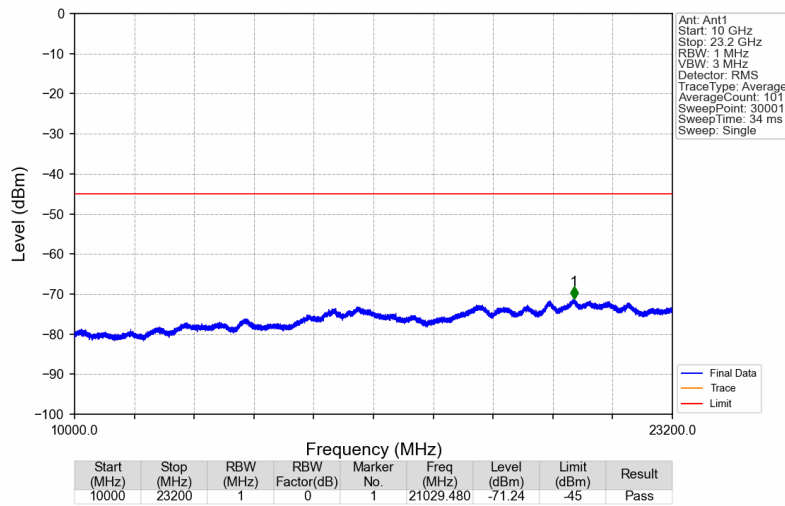
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7. Frequency stability measurements

7.1 Band30_Ant1

7.1.1 Test Result

Band: 30 / NTNV								
Signal			Temp (°C)	Voltage (VDC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict	
Type	Level (dBm)	Frequency (MHz)						
CW	-2	2350.1	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		
		2355	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		
		2359.9	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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