

Appendix B for KSCR2209001814AT-FCC-Booster-NR12

1. Out of band rejection

1.1 Band12

1.1.1 Test Result

Band: 12 / NTN							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	695 - 780	SISO	1	737.585	728.660	746.595	Pass

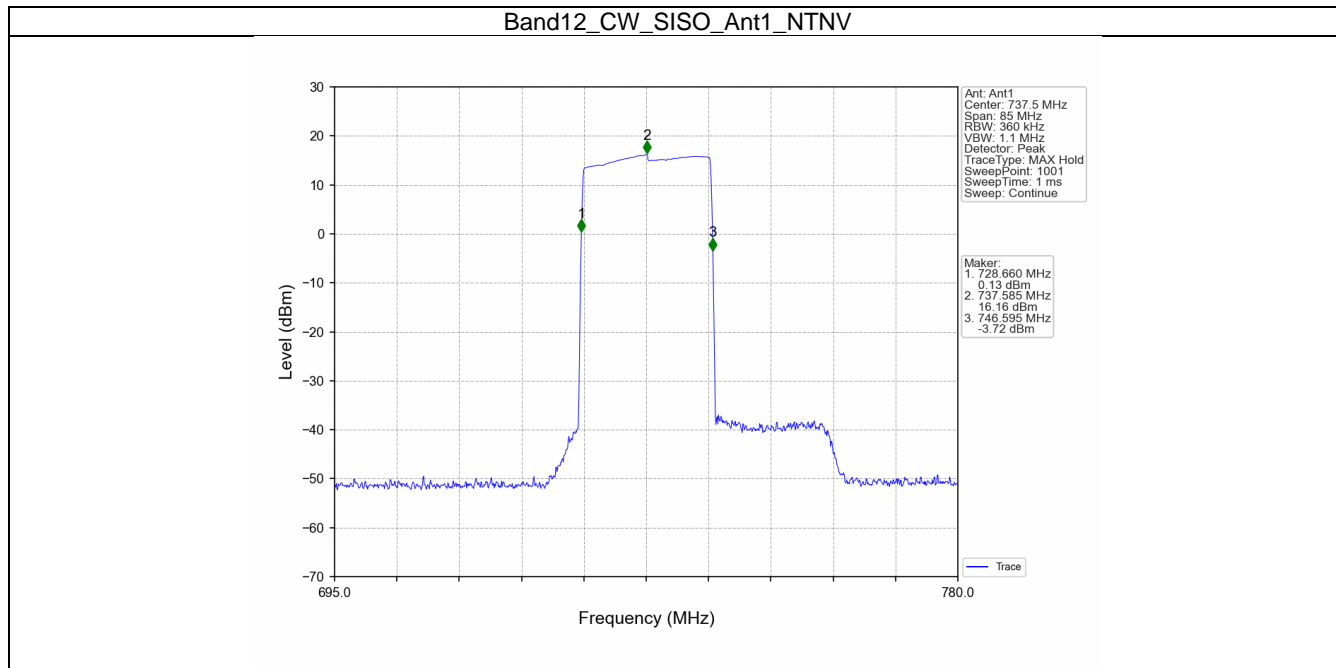
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1.1.2 Test Graph



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2. AGC threshold

2.1 Band12

2.1.1 Test Result

Band: 12 / NTV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
AWGN	737.585	SISO	1	-2.20	Pass
GMSK	737.585	SISO	1	-1.20	Pass



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3. Input-versus-output signal comparison

3.1 Band12_OBW

3.1.1 Test Result

Band: 12 / NTV							
Type	Signal		TX Type	ANT	99% OBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	0.8	737.585	SISO	1	4.537	4.519	Pass
	-2.2	737.585	SISO	1	4.542	4.535	Pass
GMSK	1.8	737.585	SISO	1	0.245	0.244	Pass
	-1.2	737.585	SISO	1	0.244	0.244	Pass



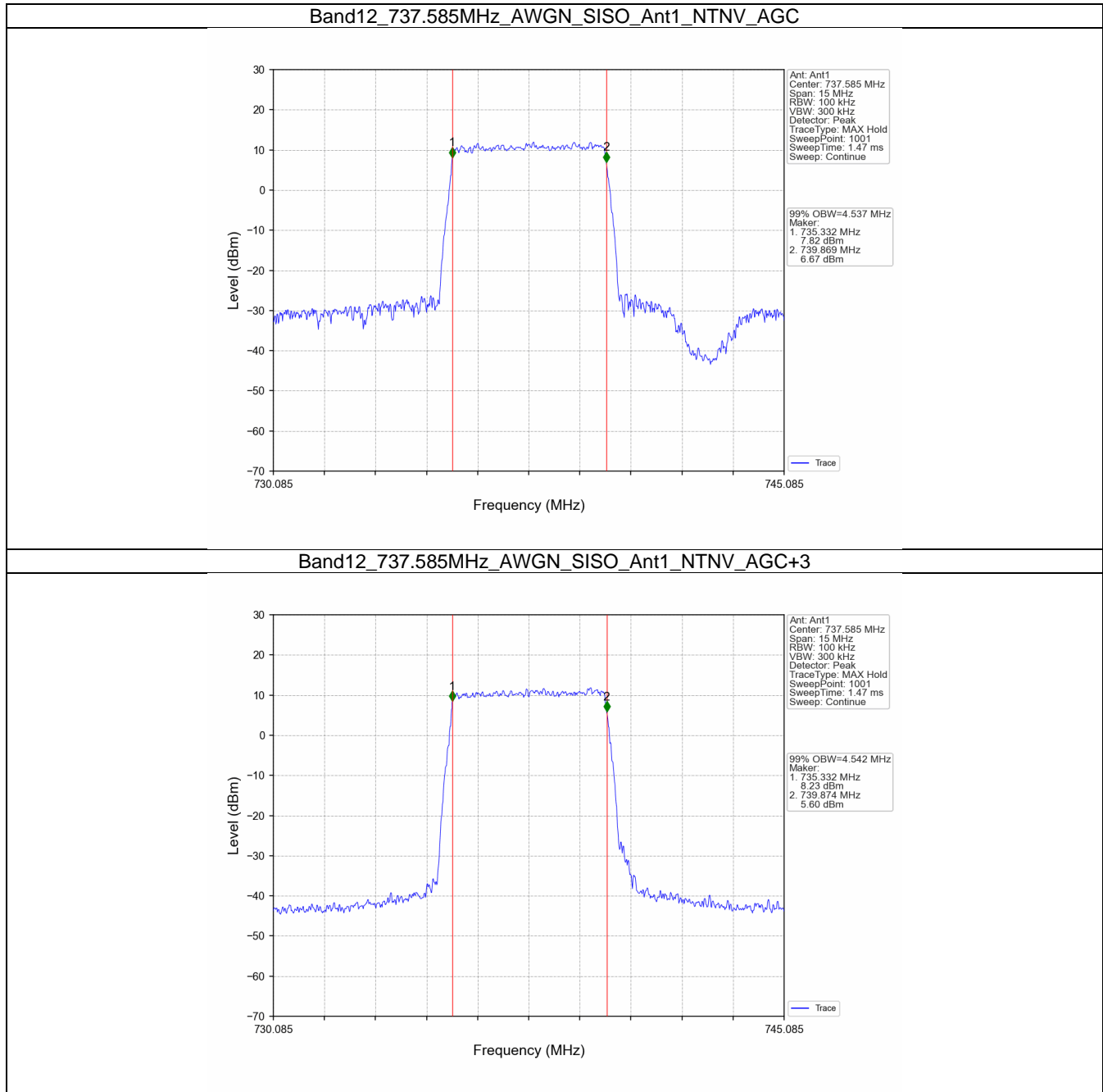
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3.1.2 Test Graph



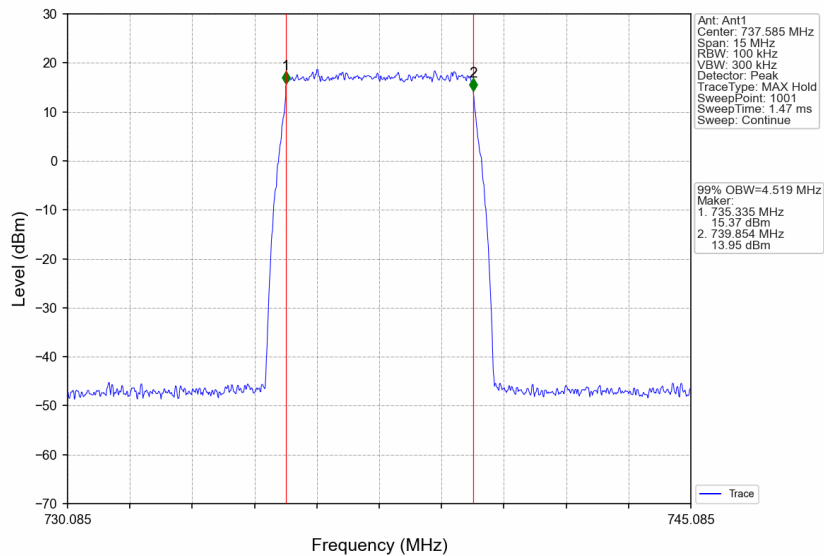
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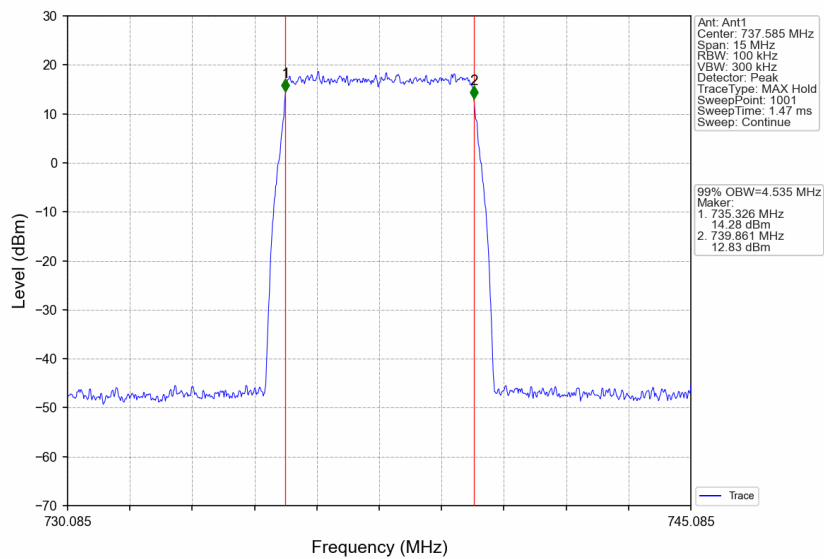
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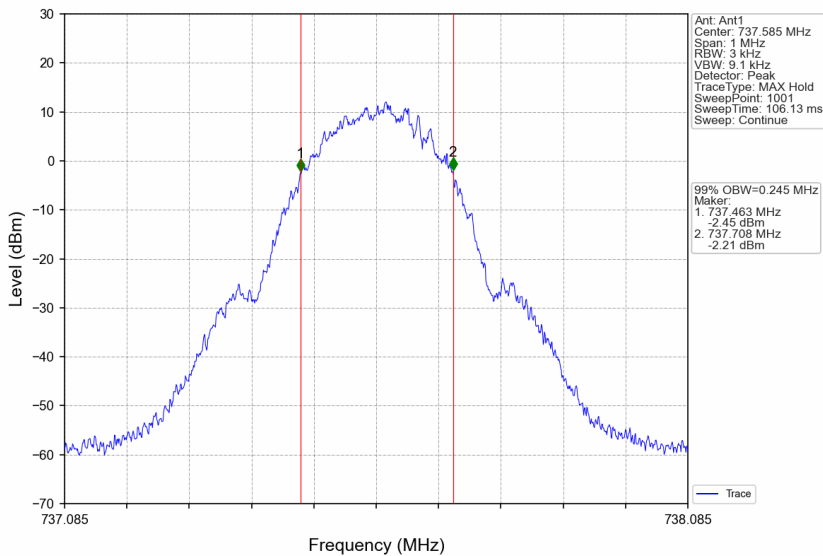
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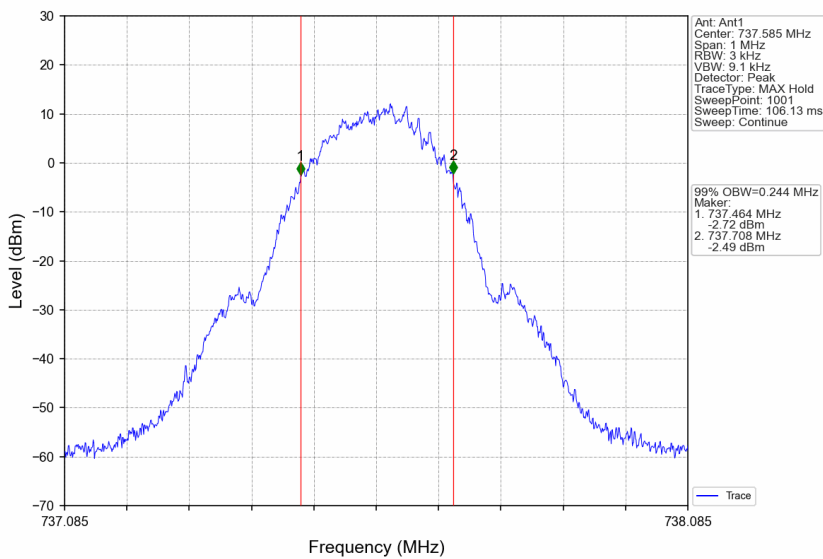
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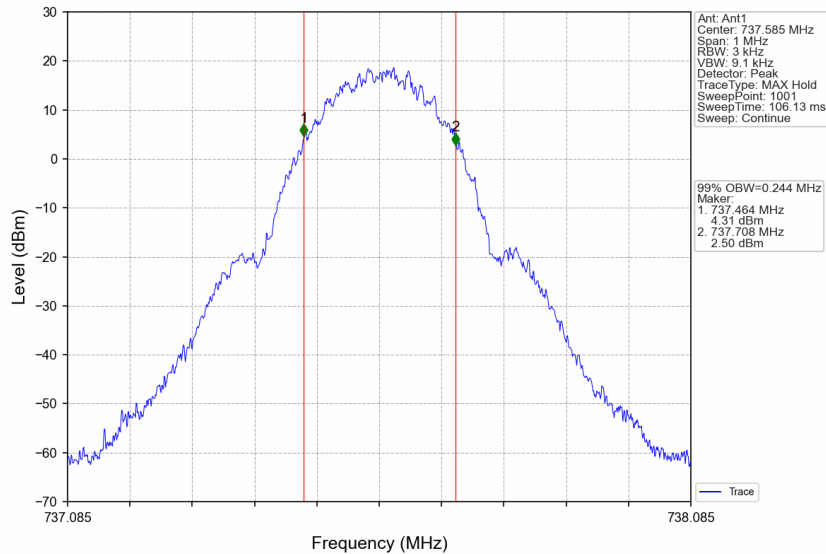
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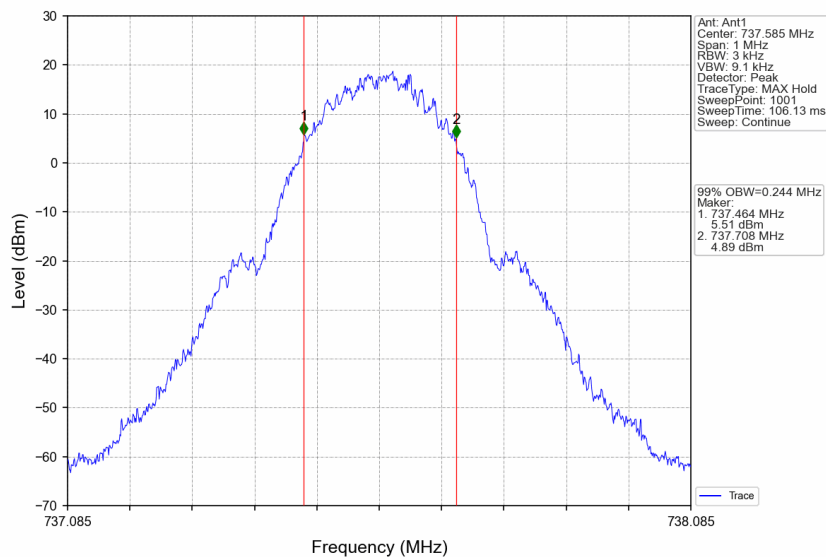
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3.2 Band12_EBW

3.2.1 Test Result

Band: 12 / NTNV							
Type	Signal		TX Type	ANT	26dB EBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	0.8	737.585	SISO	1	5.066	5.072	Pass
	-2.2	737.585	SISO	1	5.065	5.070	Pass
GMSK	1.8	737.585	SISO	1	0.316	0.312	Pass
	-1.2	737.585	SISO	1	0.314	0.314	Pass



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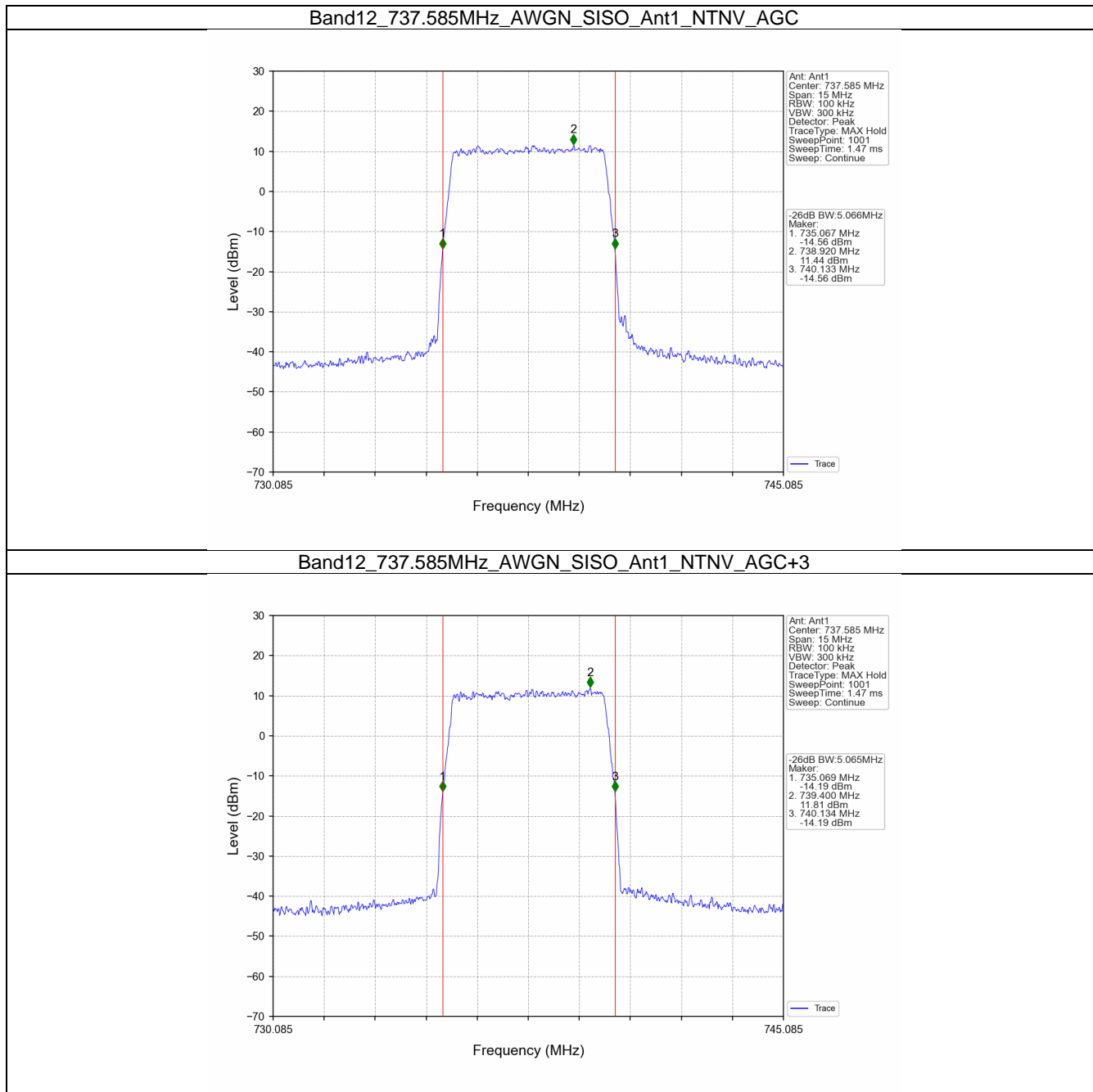
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3.2.2 Test Graph



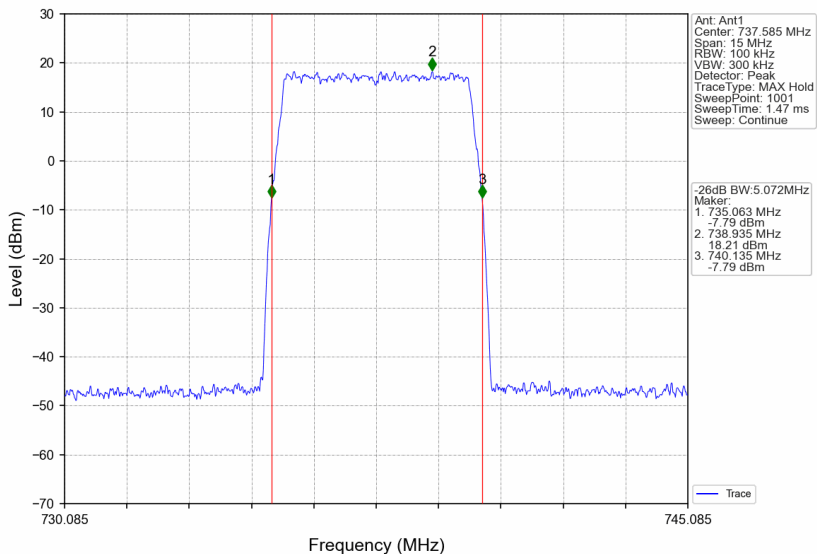
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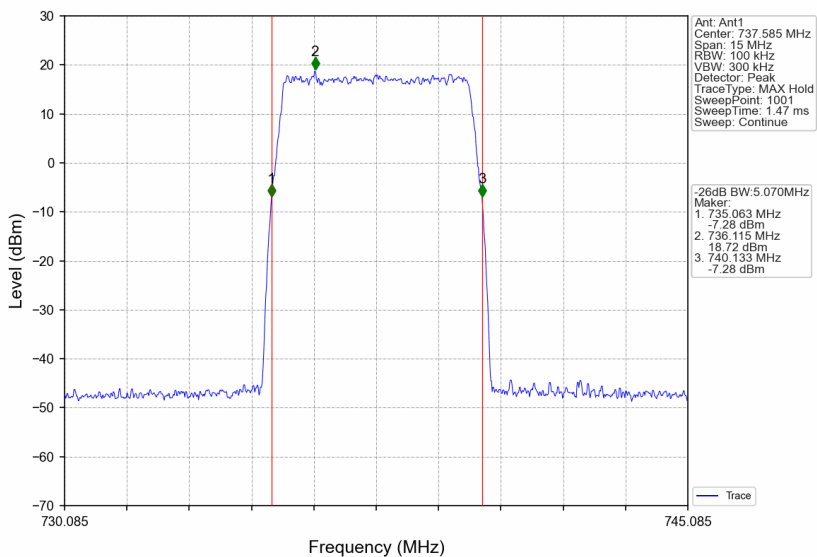
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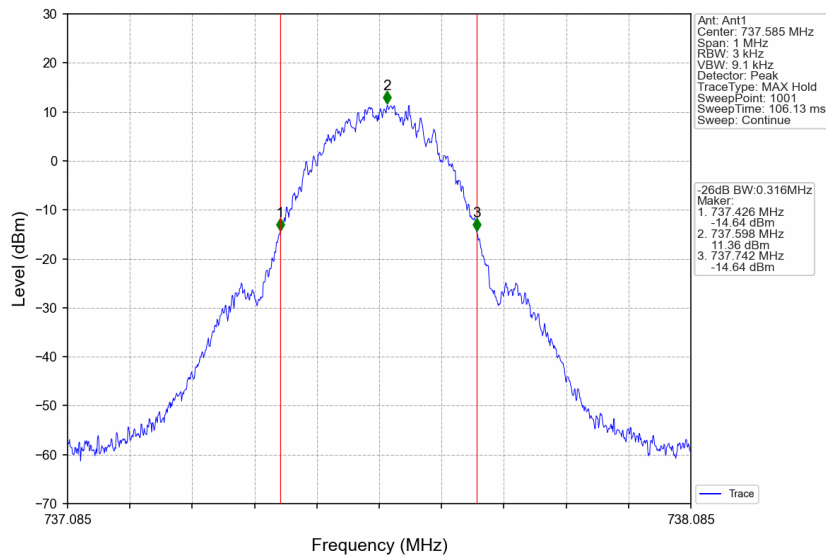
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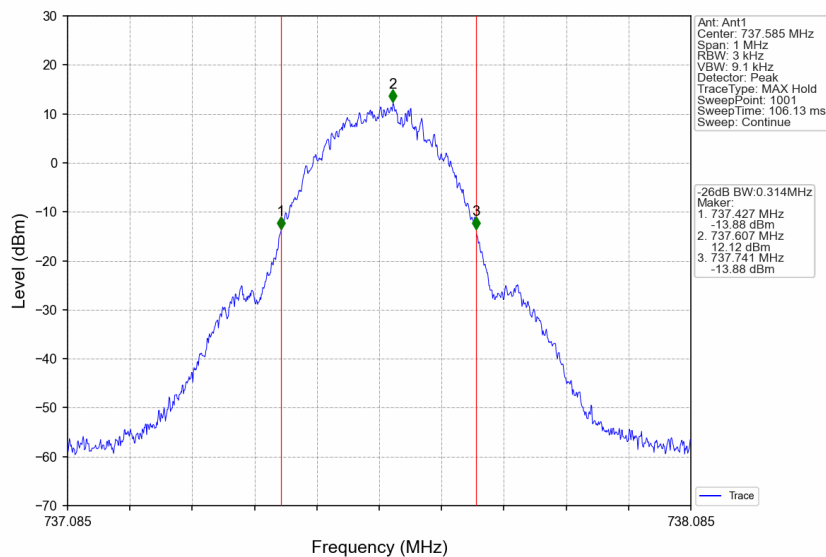
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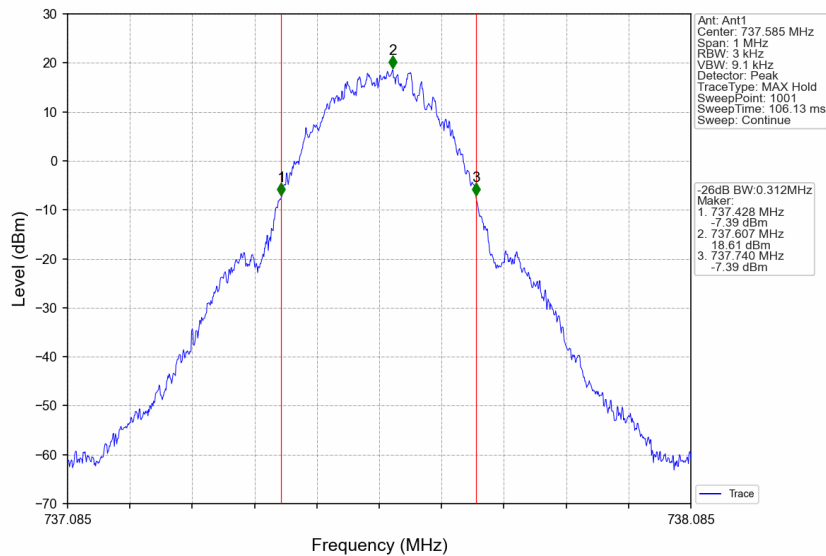
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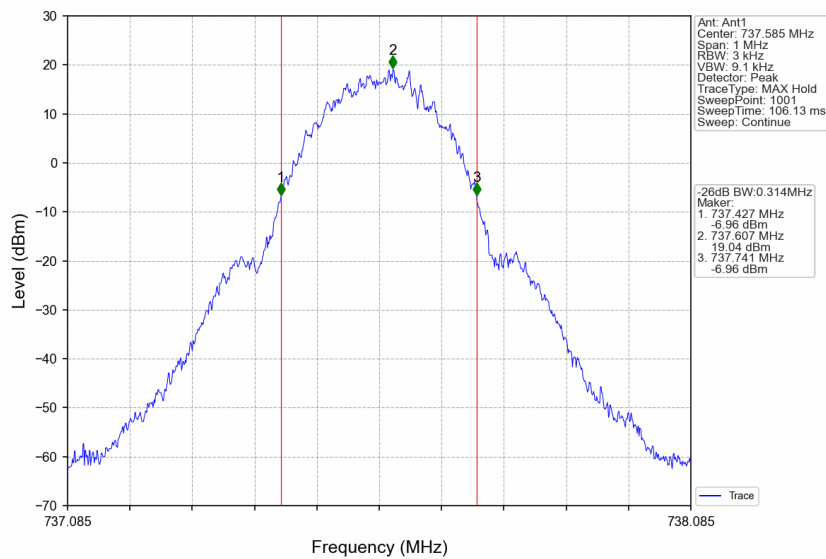
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4. Input/output power and amplifier/booster gain

4.1 Band12_ERP

4.1.1 Test Result

Band: 12 / NTV										
Signal			TX Type	ANT	Conducted Power (dBm/MHz)		ERP (dBm/MHz)		Booster Gain (dB)	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	Result	Limit		
AWGN	-2.2	737.585	SISO	1	10.17	-6.98	10.15	<=60	17.15	Pass
	0.8	737.585	SISO	1	10.26	-3.99	10.24	<=60	/	Pass
GMSK	-1.2	737.585	SISO	1	17.32	0.01	17.30	<=60	17.31	Pass
	1.8	737.585	SISO	1	17.53	2.98	17.51	<=60	/	Pass

729MHz-746MHz / NTV											
Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Total Output Power (dBm/MHz)			ERP(dBm/MHz)			Gain (dB)
					SISO	2X2 MIMO	4X4 MIMO	SISO	2X2 MIMO	4X4 MIMO	
MIMO mode											
729MHz-746MHz	737.585	AWGN	Pre-AGC	-2.2	10.17	13.18	16.19	10.15	13.16	16.17	/
			3dB Above AGC	0.8	10.26	13.27	16.28	10.24	13.25	16.26	/
	737.585	GMSK	Pre-AGC	-1.2	17.32	20.33	23.34	17.30	20.31	23.32	/
			3dB Above AGC	1.8	17.53	20.54	23.55	17.51	20.52	23.53	/

729MHz-746MHz / NTV											
Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Total Output Power (dBm)			ERP(dBm)			Gain (dB)
					SISO	2X2 MIMO	4X4 MIMO	SISO	2X2 MIMO	4X4 MIMO	
MIMO mode											
729MHz-746MHz	737.585	AWGN	Pre-AGC	-2.2	17.15	20.16	23.17	17.13	20.14	23.15	/
			3dB Above AGC	0.8	17.24	20.25	23.26	17.22	20.23	23.24	/
	737.585	GMSK	Pre-AGC	-1.2	17.32	20.33	23.34	17.30	20.31	23.32	/
			3dB Above AGC	1.8	17.53	20.54	23.55	17.51	20.52	23.53	/

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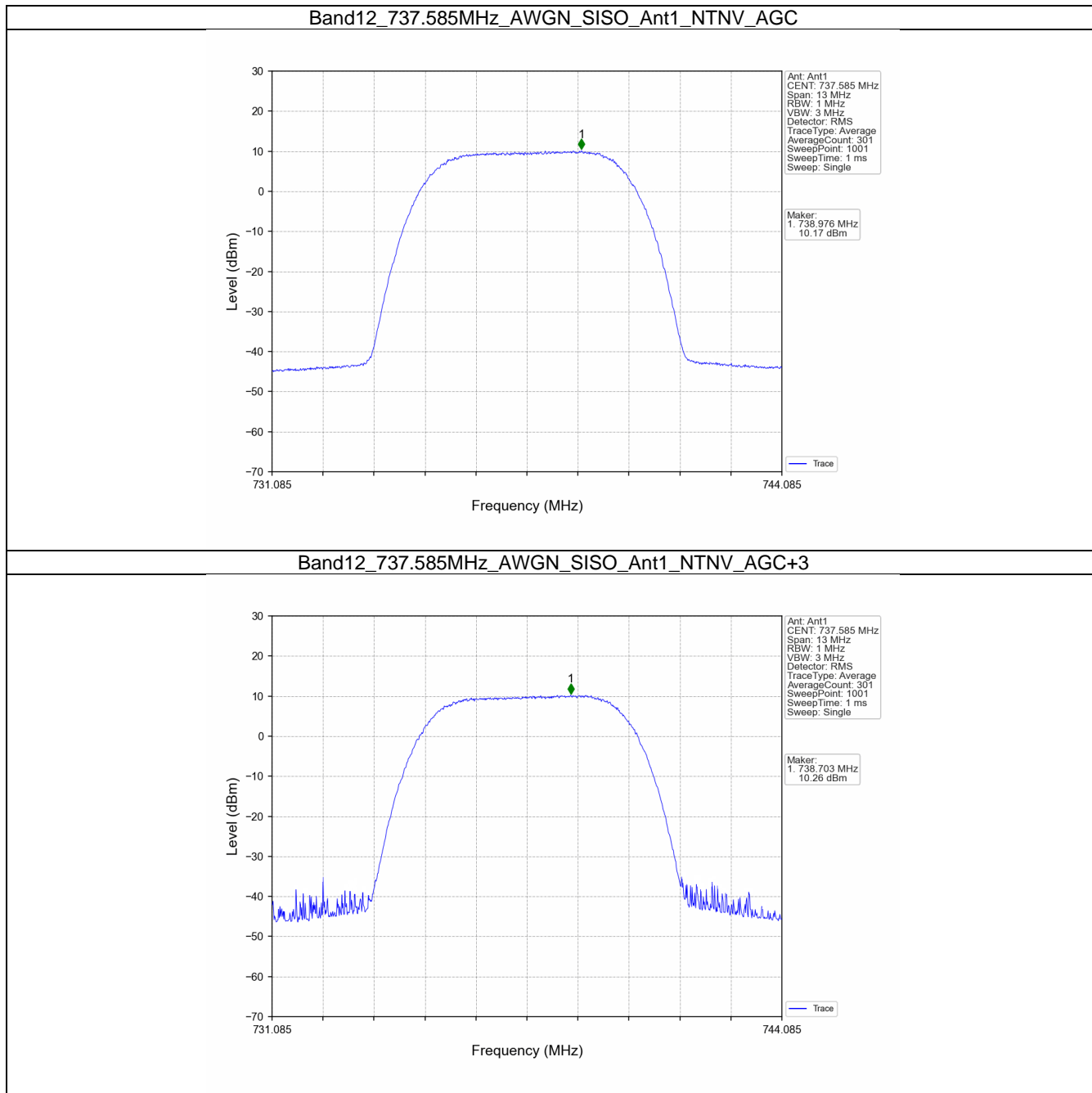
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4.1.2 Test Graph

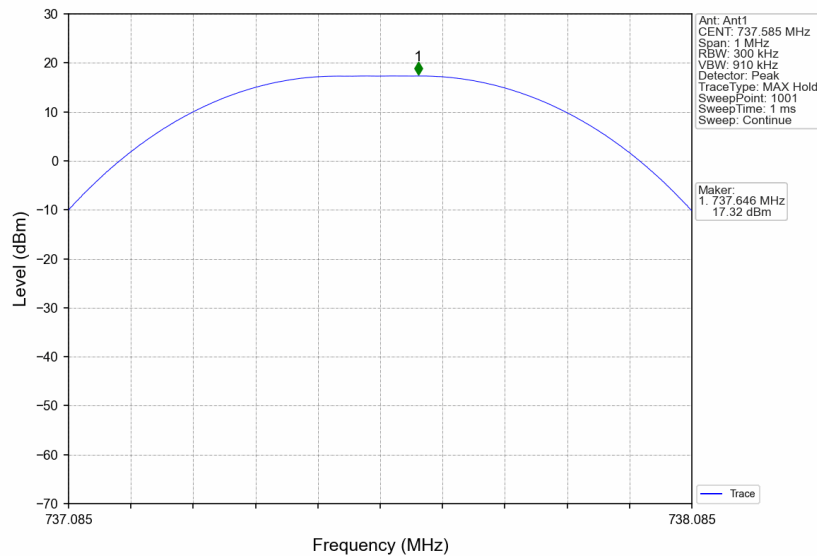


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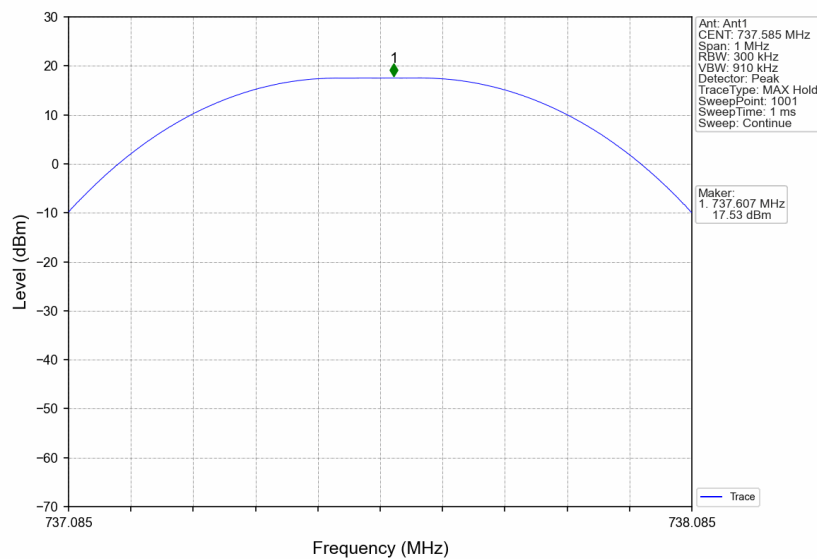
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Band12_737.585MHz_GMSK_SISO_Ant1_NTNV_AGC



Band12_737.585MHz_GMSK_SISO_Ant1_NTNV_AGC+3



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4.2 Band12_PAPR

4.2.1 Test Result

Band: 12 / NTNV							
Type	Signal		TX Type	ANT	PAPR (dB)		Verdict
	Level (dBm)	Frequency (MHz)			Result	Limit	
AWGN	-2.2	737.585	SISO	1	8.28	<=13	Pass
	0.8	737.585	SISO	1	8.25	<=13	Pass
GMSK	-1.2	737.585	SISO	1	0.31	<=13	Pass
	1.8	737.585	SISO	1	0.30	<=13	Pass



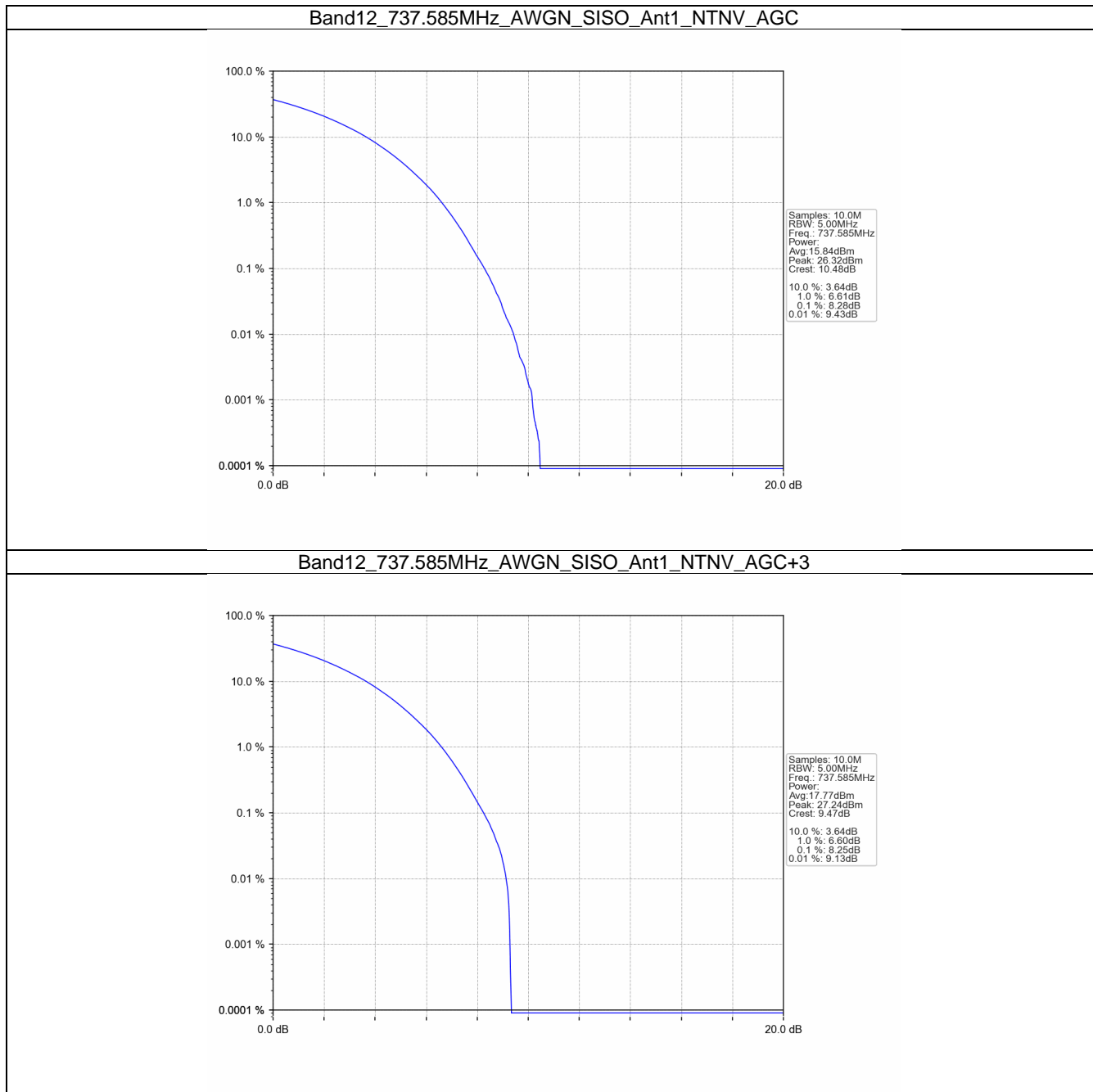
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4.2.2 Test Graph



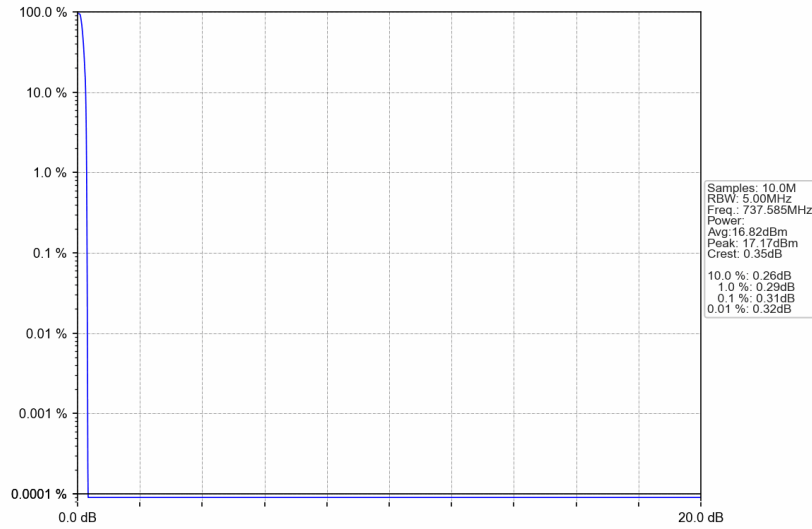
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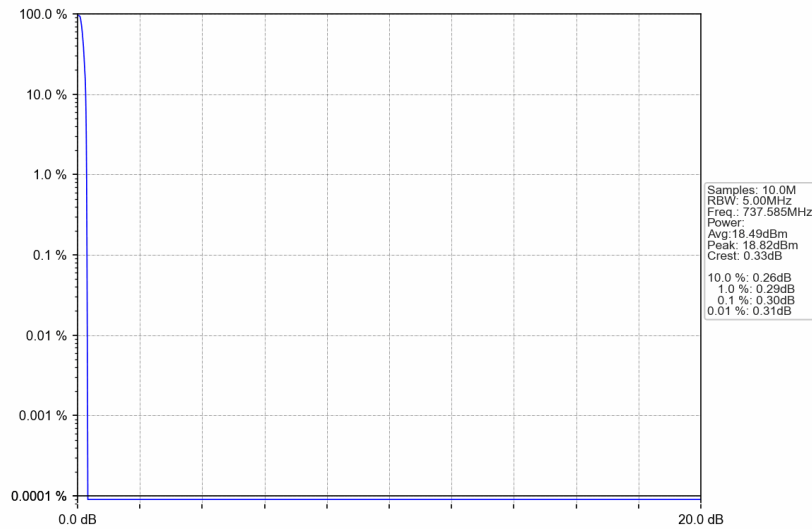
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Band12_737.585MHz_GMSK_SISO_Ant1_NTNV_AGC



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

5.1 Band12

5.1.1 Test Result

Band: 12 / NTV									
Signal				Channel	TX Type	ANT	OOB (dBm)		Verdict
Input	Type	Level (dBm)	Frequency (MHz)				Result	Limit	
Two	AWGN	-2.2	731.5	LCH	SISO	1	-86.45	Refer To Test Graph	Pass
		0.8	731.5	LCH	SISO	1	-86.30	Refer To Test Graph	Pass
One	AWGN	-2.2	731.5	LCH	SISO	1	-86.58	Refer To Test Graph	Pass
		0.8	731.5	LCH	SISO	1	-86.34	Refer To Test Graph	Pass
Two	AWGN	-2.2	743.5	HCH	SISO	1	-82.26	Refer To Test Graph	Pass
		0.8	743.5	HCH	SISO	1	-82.25	Refer To Test Graph	Pass
One	AWGN	-2.2	743.5	HCH	SISO	1	-81.98	Refer To Test Graph	Pass
		0.8	743.5	HCH	SISO	1	-82.08	Refer To Test Graph	Pass
Two	GMSK	-1.2	729.1	LCH	SISO	1	-86.25	Refer To Test Graph	Pass
		1.8	729.1	LCH	SISO	1	-86.33	Refer To Test Graph	Pass
One	GMSK	-1.2	729.1	LCH	SISO	1	-86.00	Refer To Test Graph	Pass
		1.8	729.1	LCH	SISO	1	-85.87	Refer To Test Graph	Pass
Two	GMSK	-1.2	745.9	HCH	SISO	1	-82.19	Refer To Test Graph	Pass
		1.8	745.9	HCH	SISO	1	-82.19	Refer To Test Graph	Pass
One	GMSK	-1.2	745.9	HCH	SISO	1	-82.08	Refer To Test Graph	Pass
		1.8	745.9	HCH	SISO	1	-82.23	Refer To Test Graph	Pass

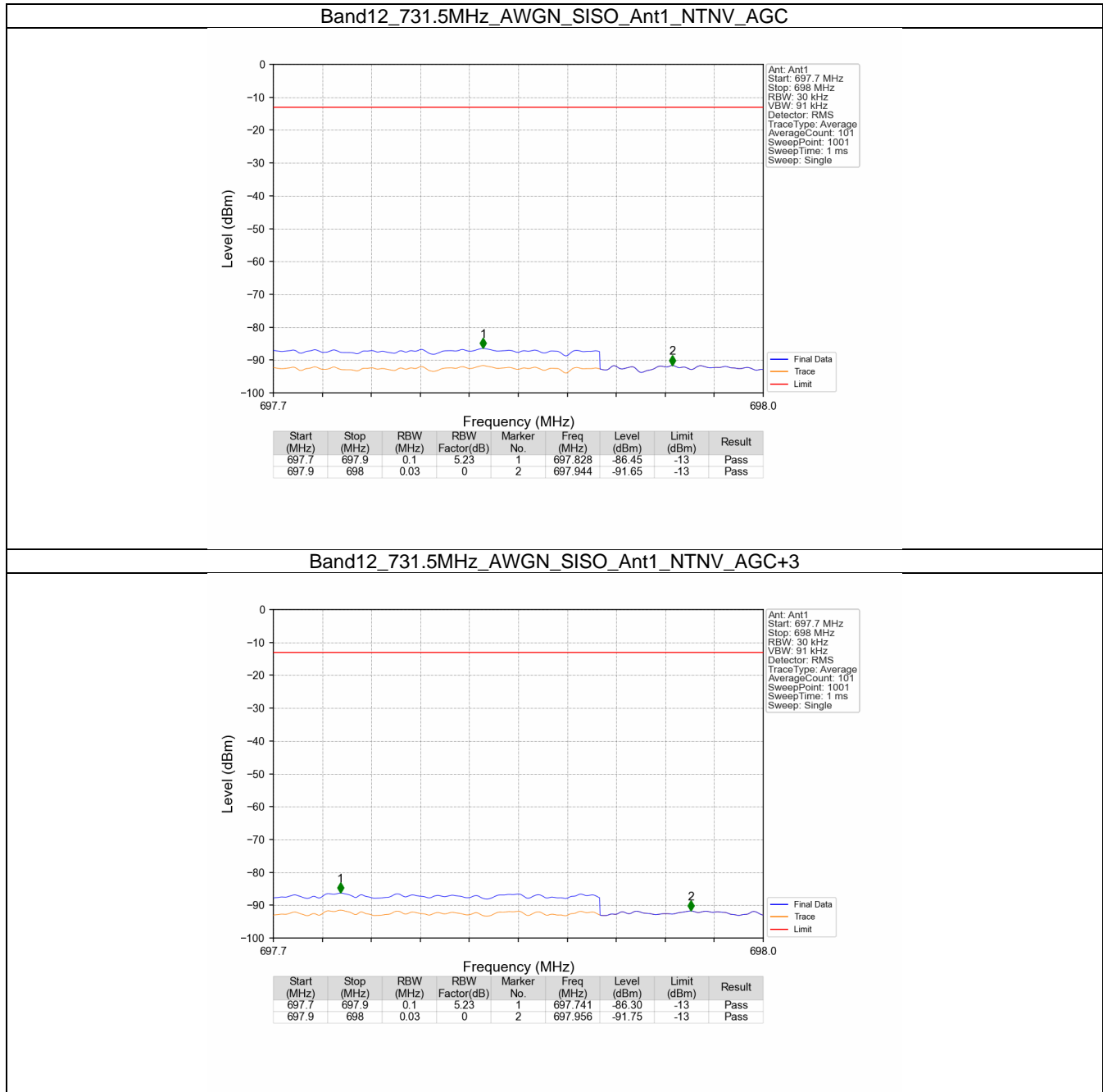


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5.1.2 Test Graph



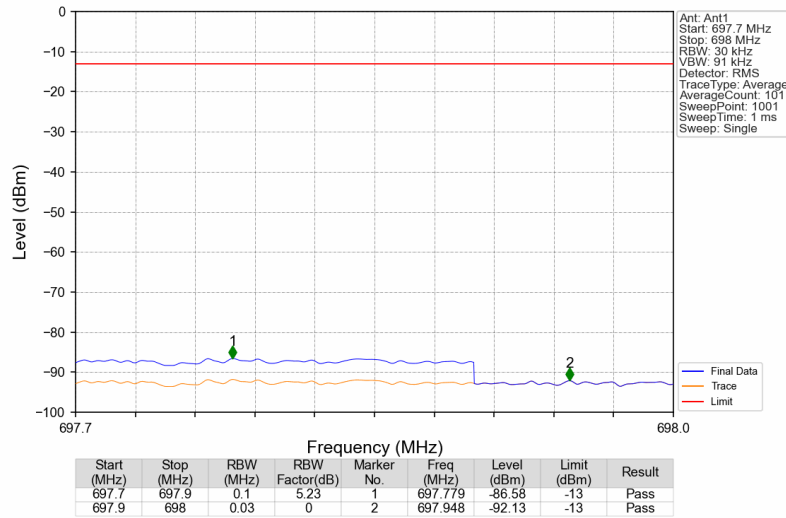
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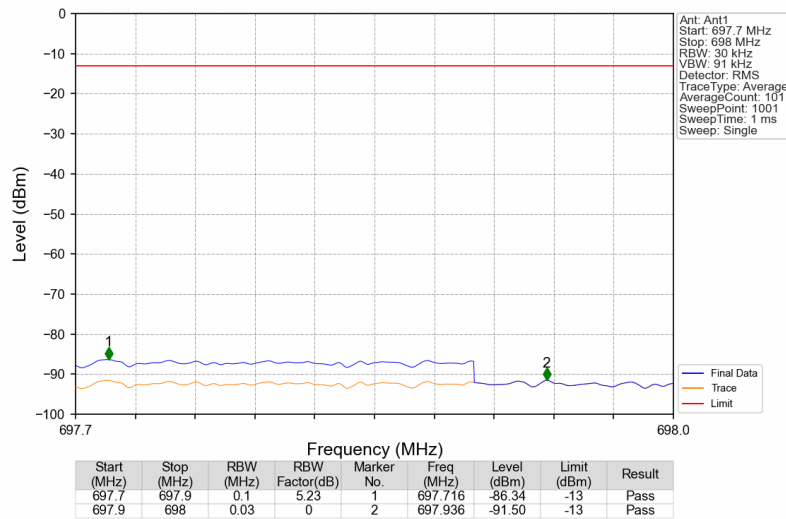
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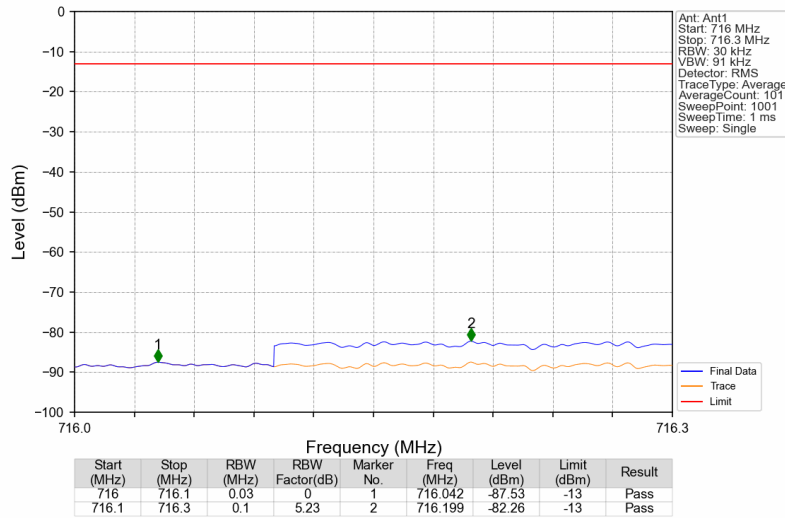
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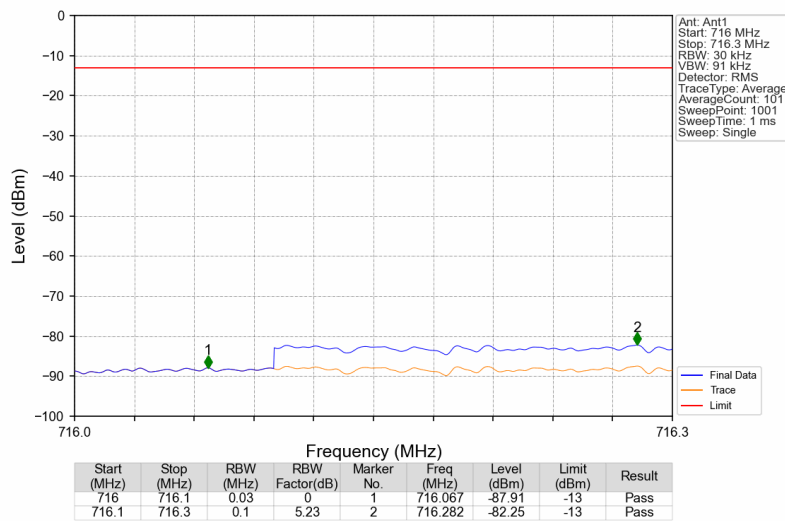
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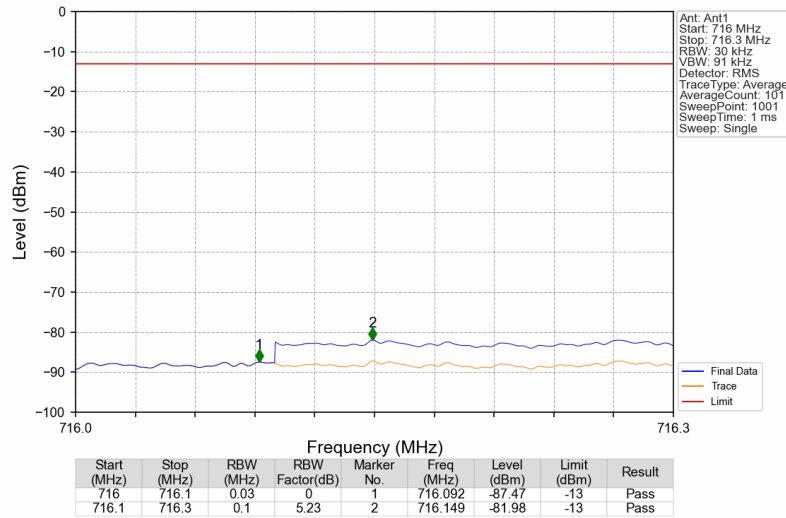
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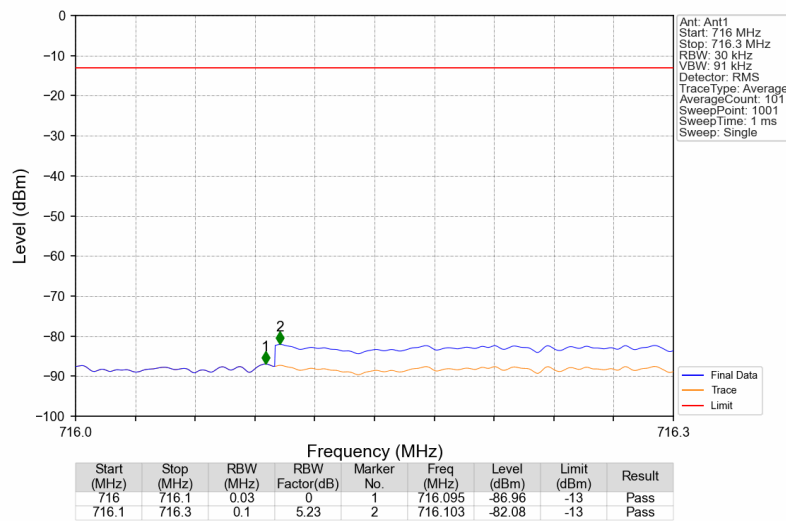
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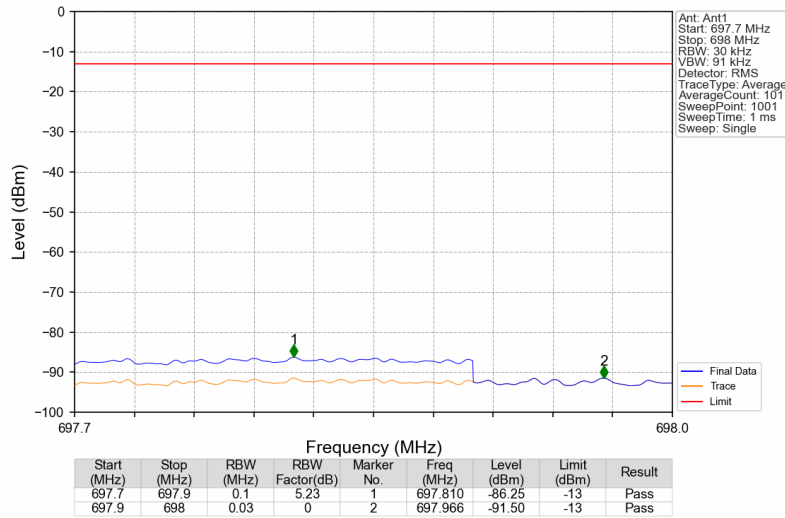
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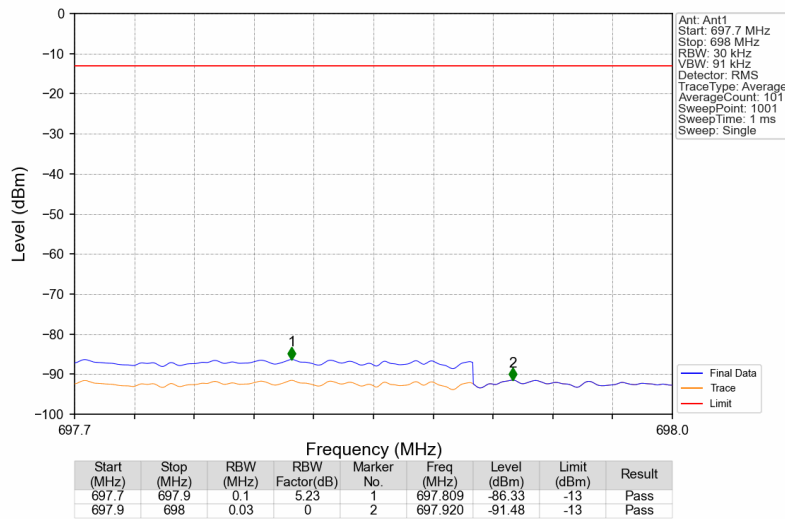
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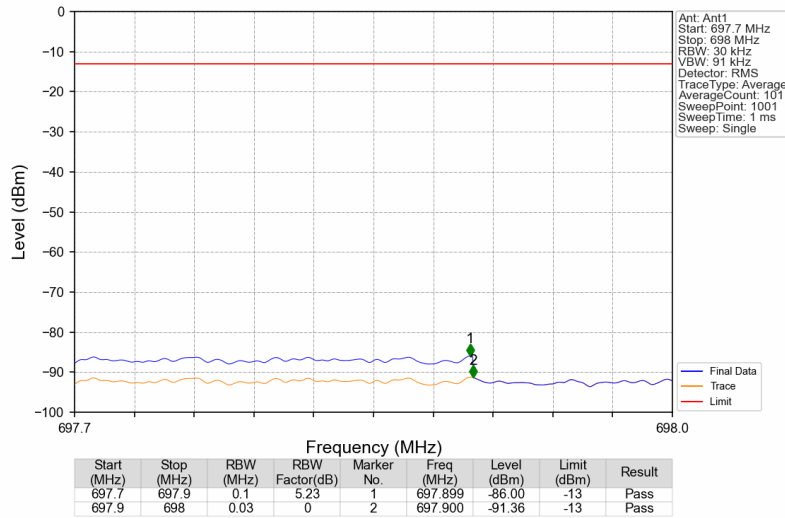
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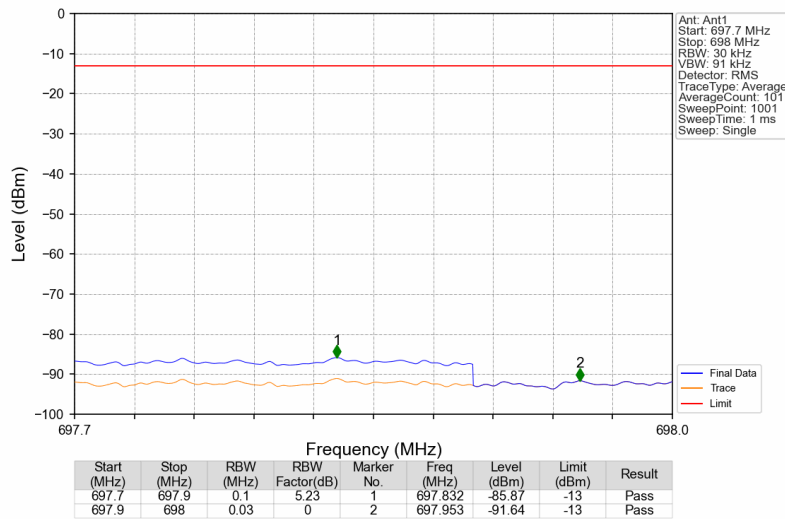
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Band12_729.1MHz_GMSK_SISO_Ant1_NTNV_AGC



Band12_729.1MHz_GMSK_SISO_Ant1_NTNV_AGC+3



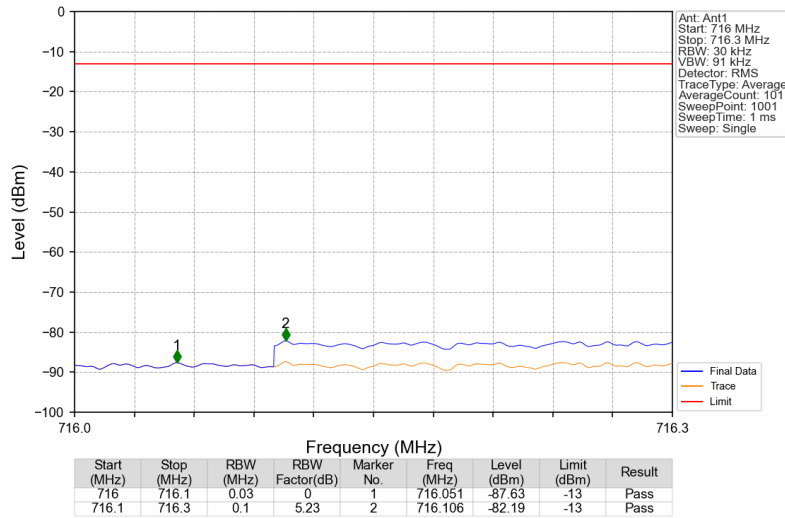
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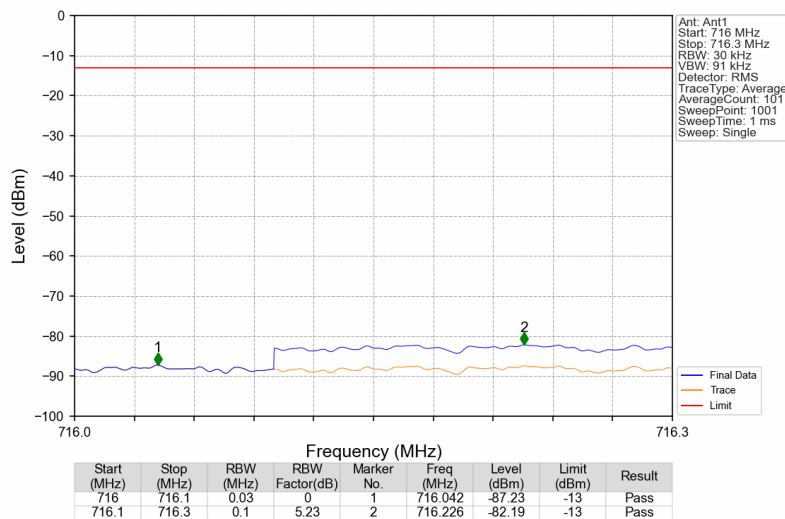
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Band12_745.9MHz_GMSK_SISO_Ant1_NTNV_AGC



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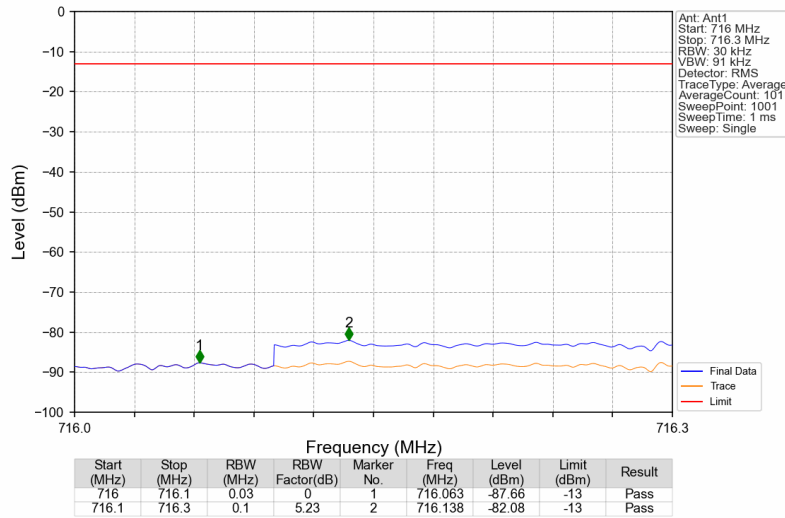
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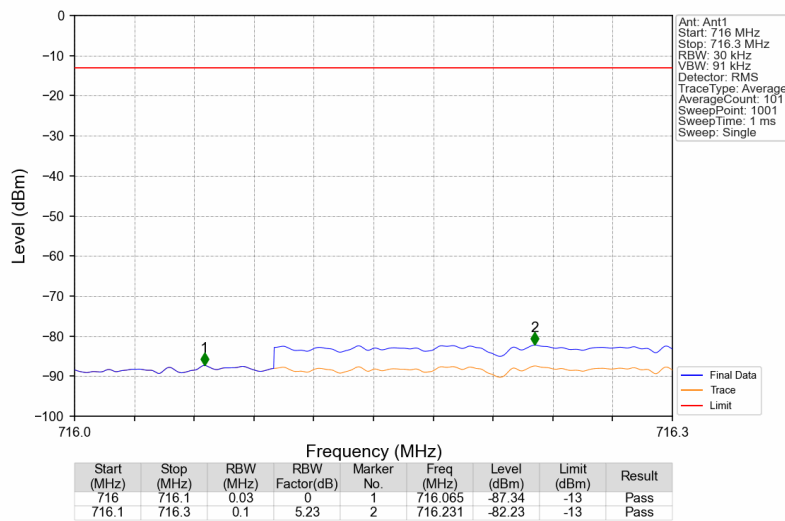
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6. Spurious emissions

6.1 Band12

6.1.1 Test Result

Band: 12 / NTV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
AWGN	-2.2	731.5	LCH	SISO	1	Refer To Test Graph		Pass
		737.5	MCH	SISO	1	Refer To Test Graph		Pass
		743.5	HCH	SISO	1	Refer To Test Graph		Pass
GMSK	-1.2	729.1	LCH	SISO	1	Refer To Test Graph		Pass
		737.5	MCH	SISO	1	Refer To Test Graph		Pass
		745.9	HCH	SISO	1	Refer To Test Graph		Pass

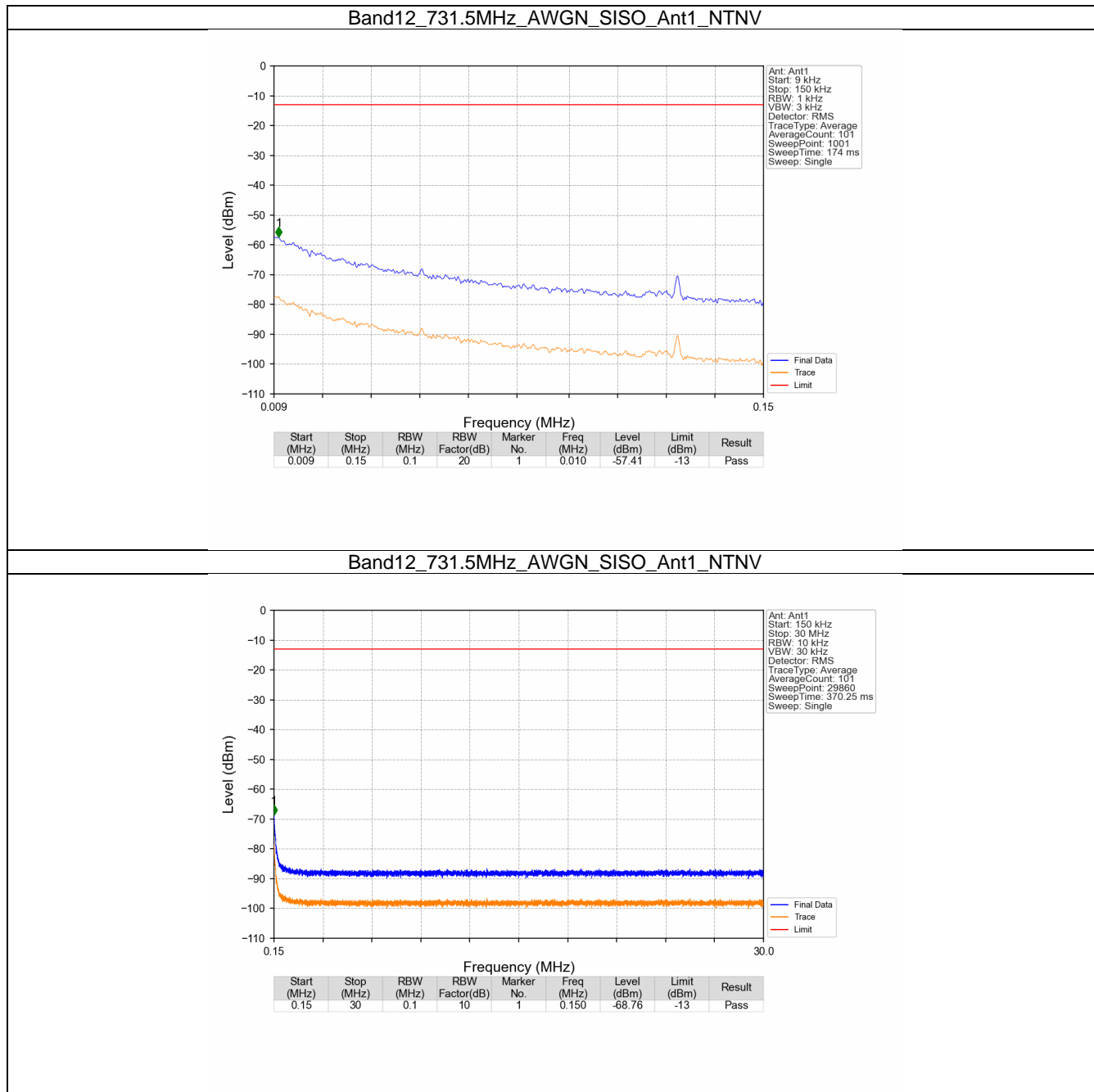


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6.1.2 Test Graph



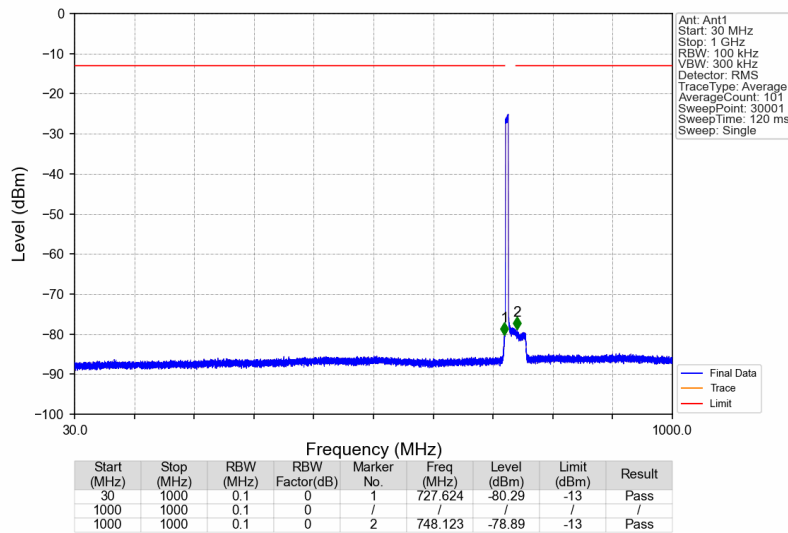
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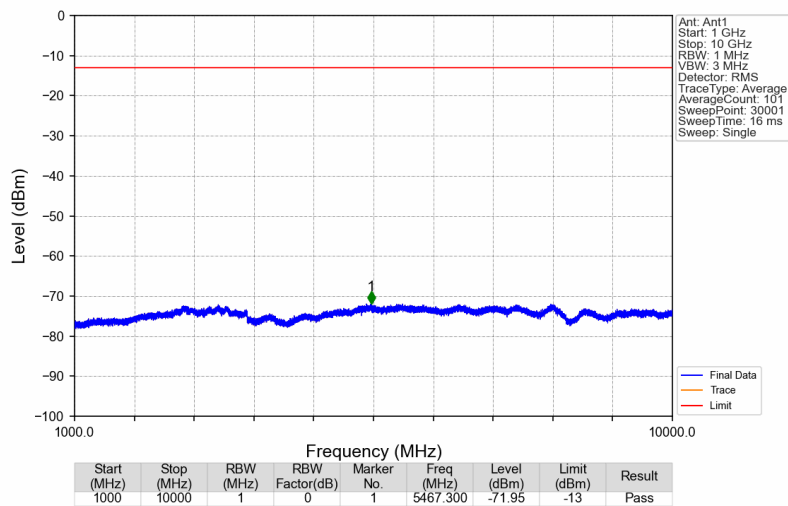
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Band12_731.5MHz_AWGN_SISO_Ant1_NTNV



Band12_731.5MHz_AWGN_SISO_Ant1_NTNV



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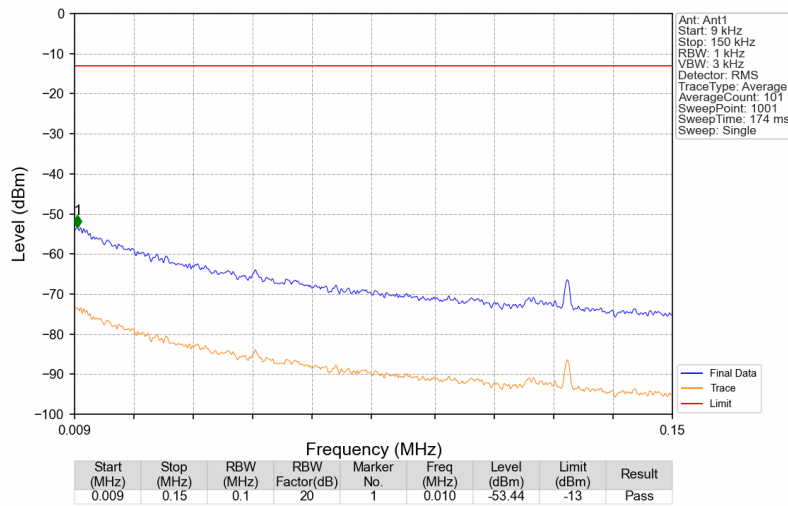
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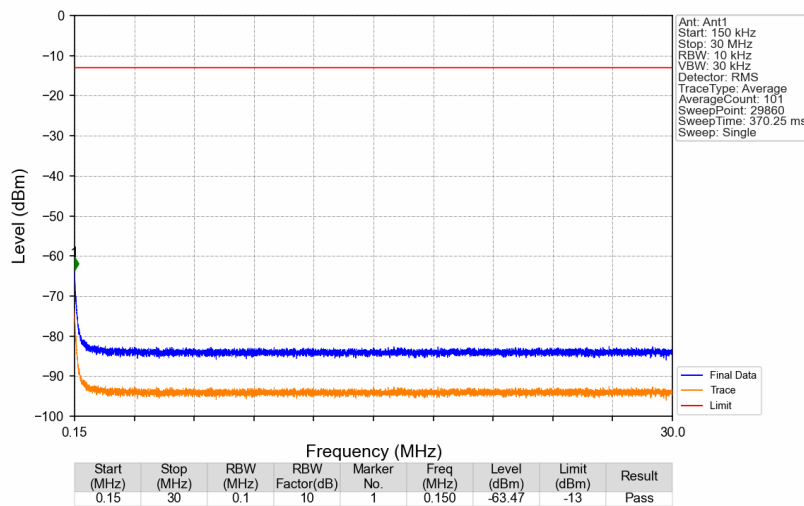
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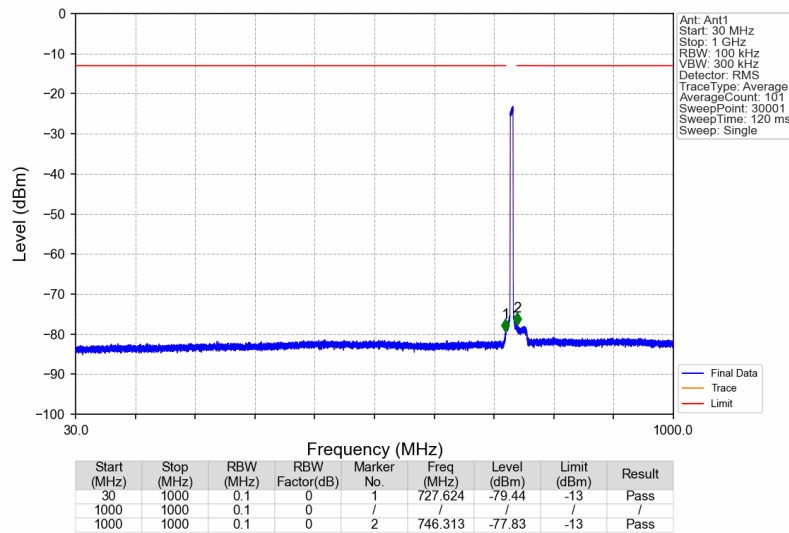
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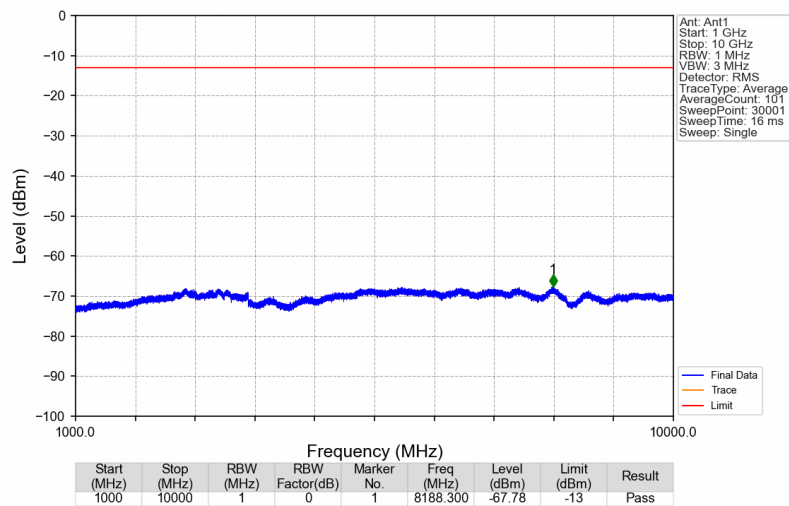
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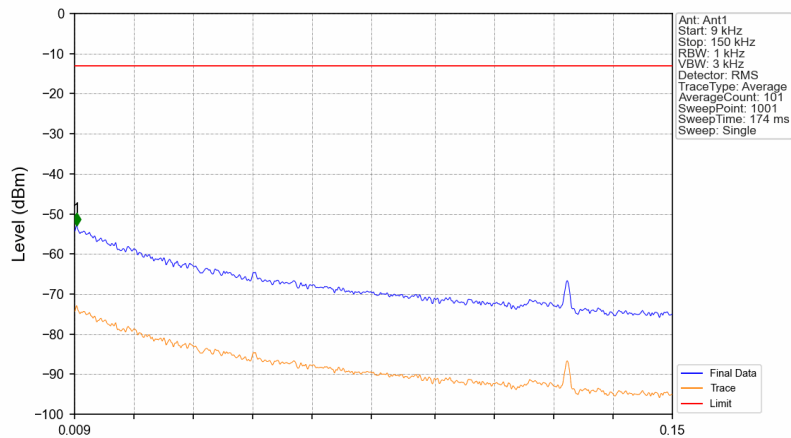
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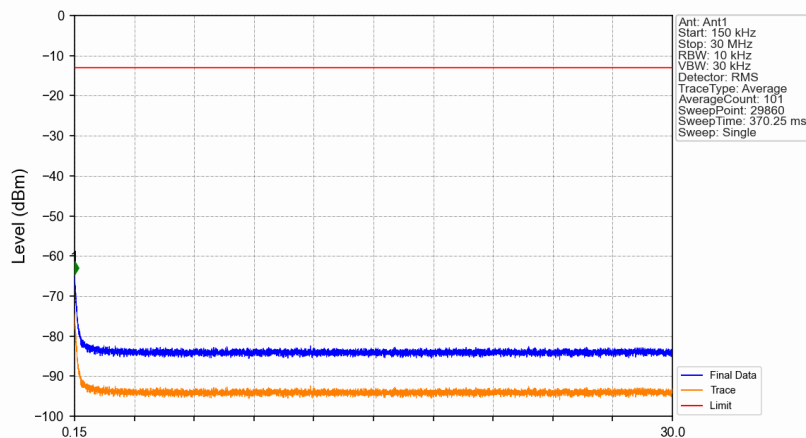
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Band12_743.5MHz_AWGN_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	0.1	20	1	0.009	-52.90	-13	Pass

Band12_743.5MHz_AWGN_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.15	30	0.1	10	1	0.150	-64.56	-13	Pass



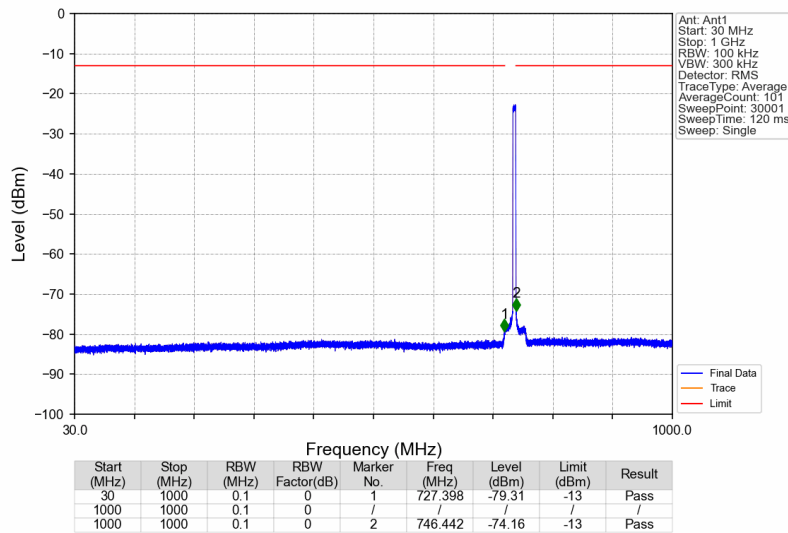
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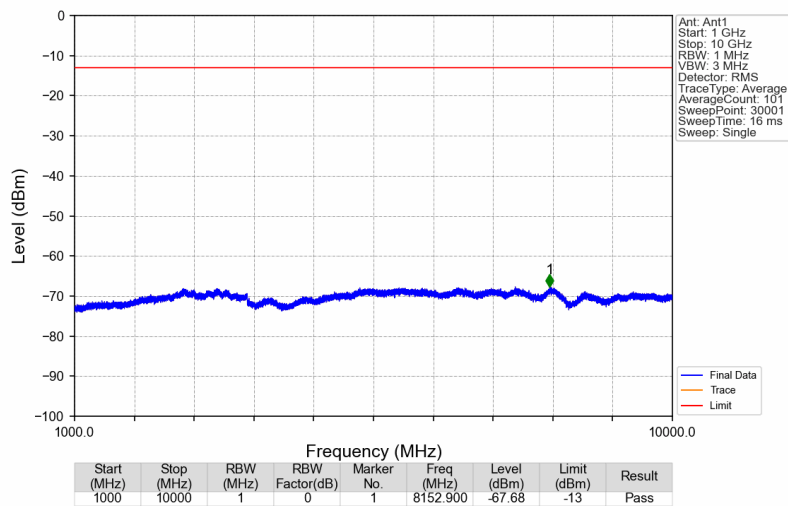
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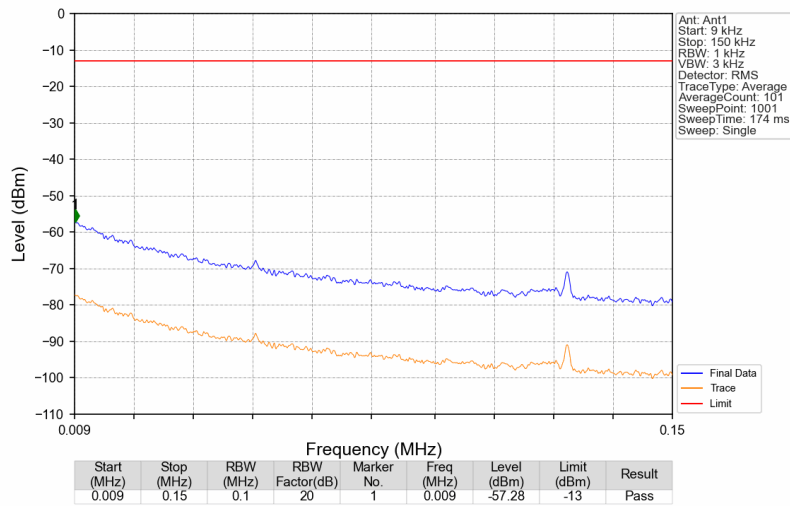
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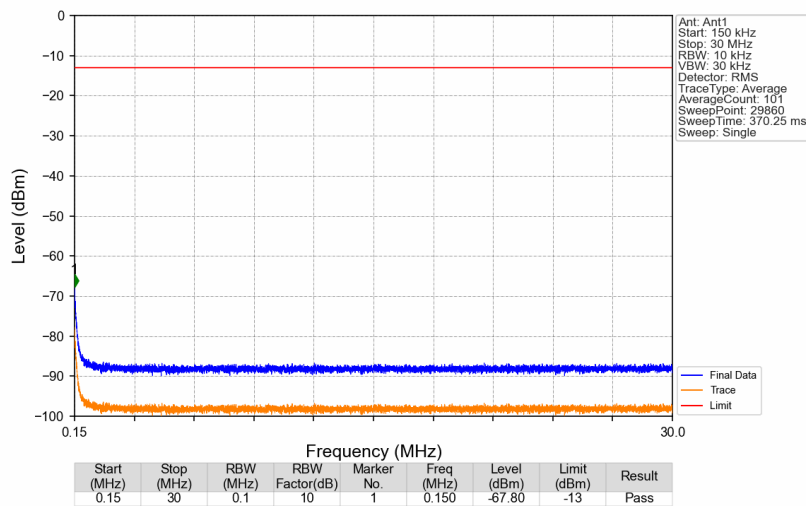
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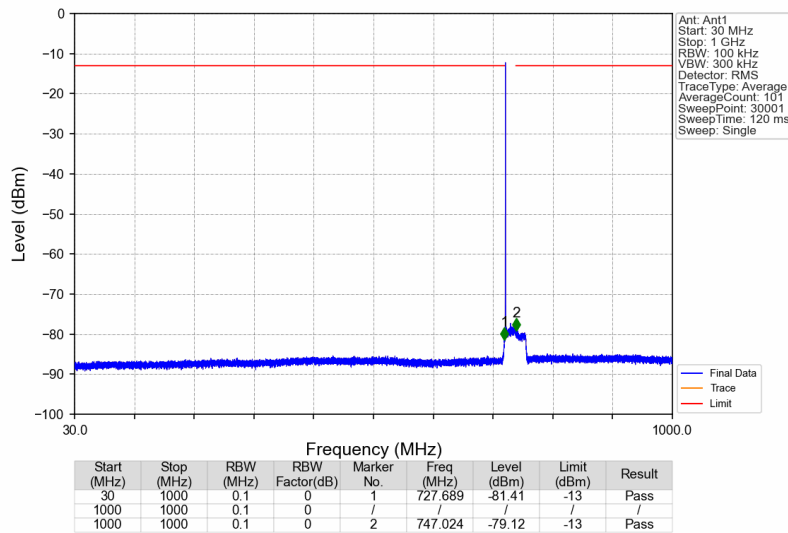
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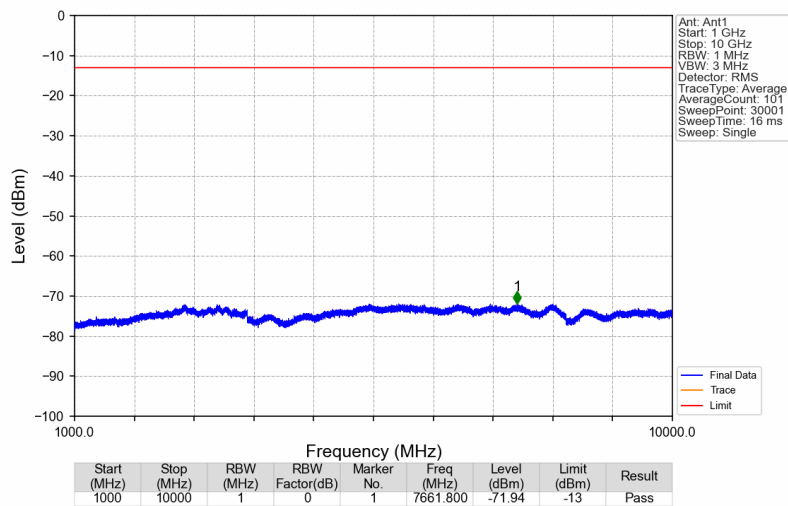
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Band12_729.1MHz_GMSK_SISO_Ant1_NTNV



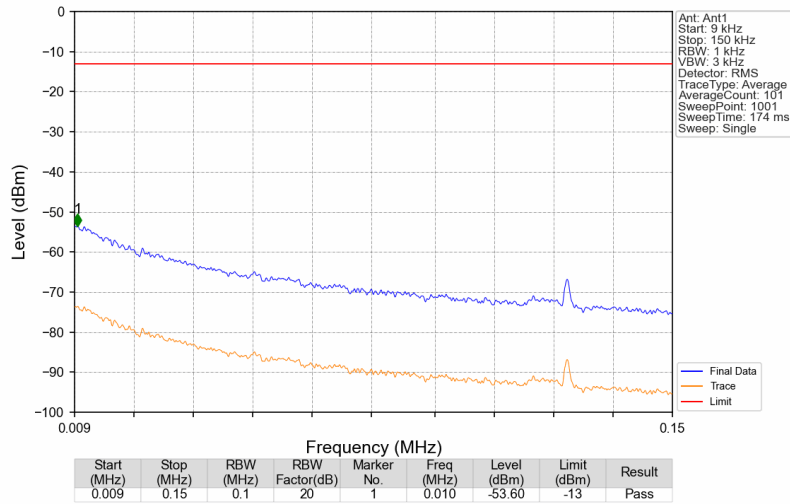
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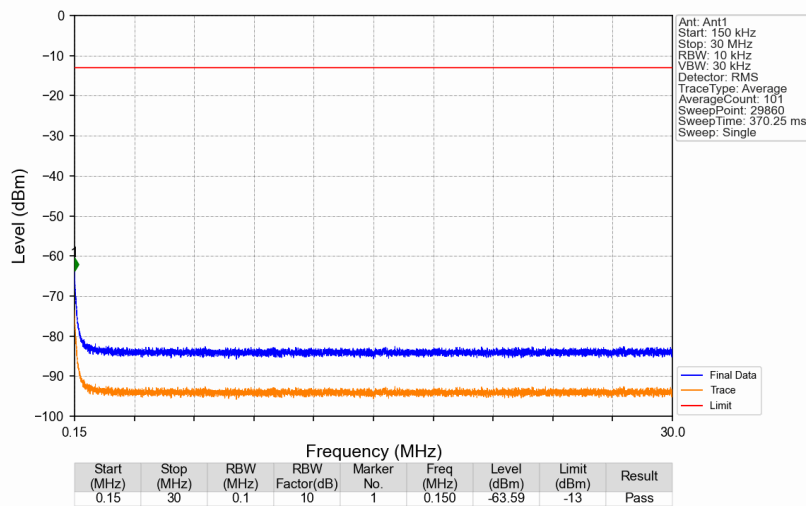
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Band12_737.5MHz_GMSK_SISO_Ant1_NTNV



Band12_737.5MHz_GMSK_SISO_Ant1_NTNV



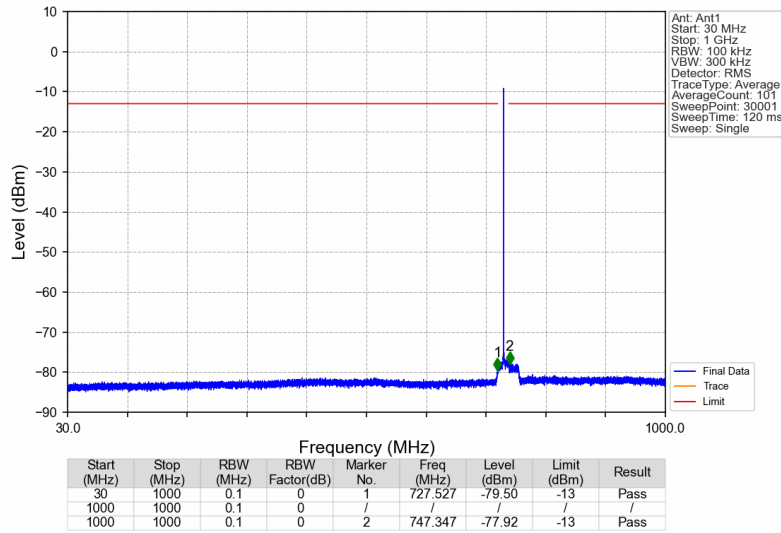
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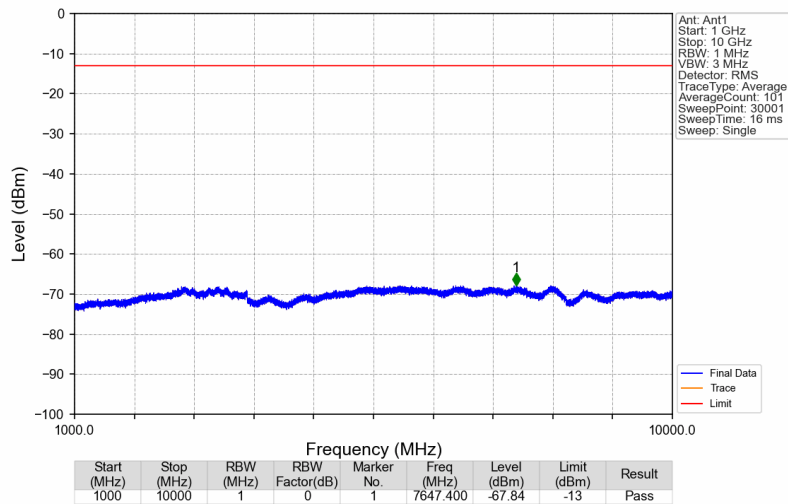
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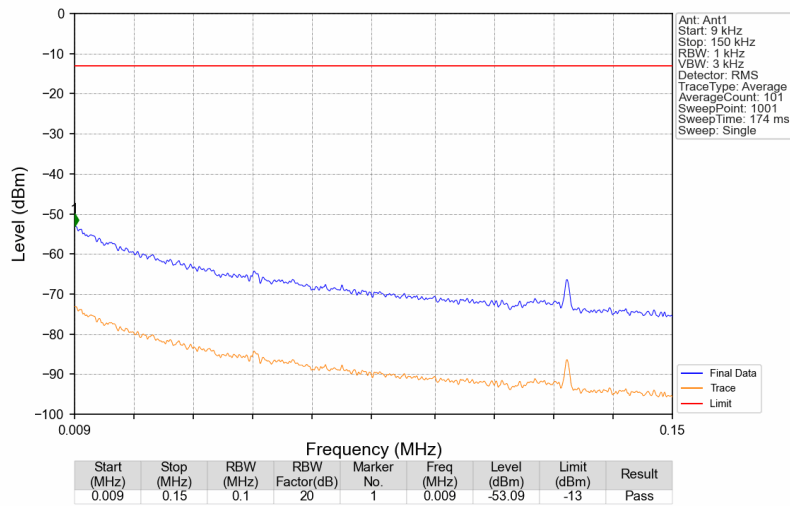
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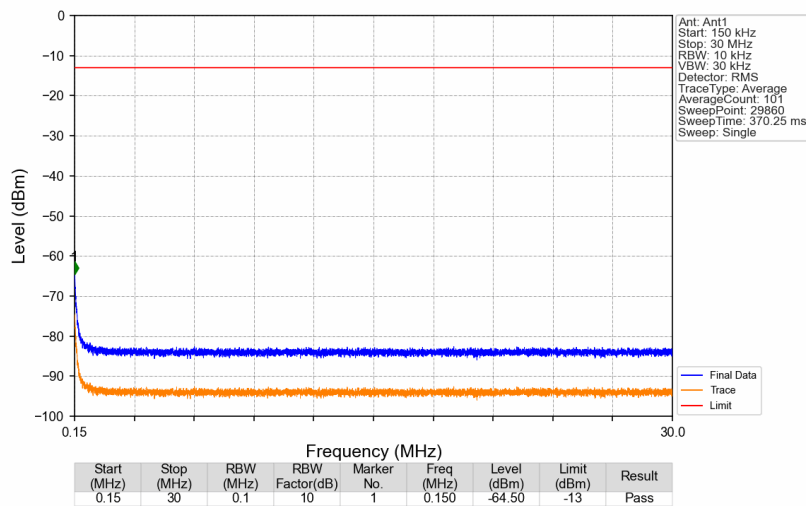


Compliance Certification Services (Kunshan) Inc.
EMC Laboratory

Band12_745.9MHz_GMSK_SISO_Ant1_NTNV



Band12_745.9MHz_GMSK_SISO_Ant1_NTNV



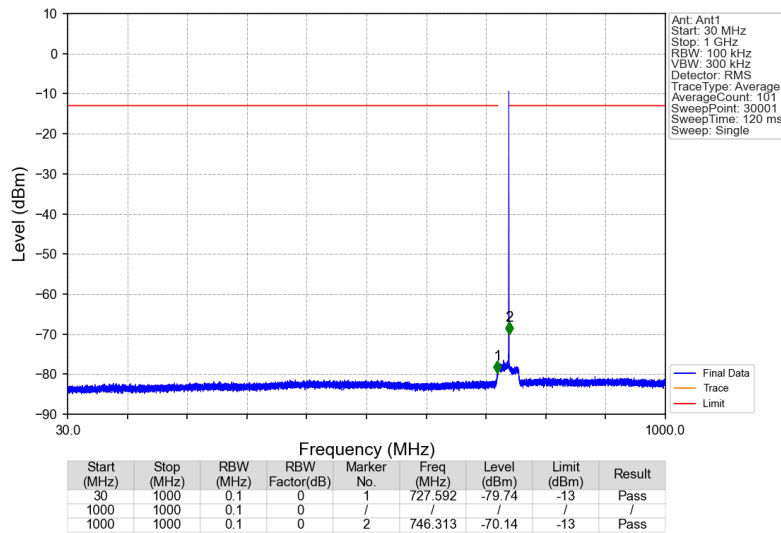
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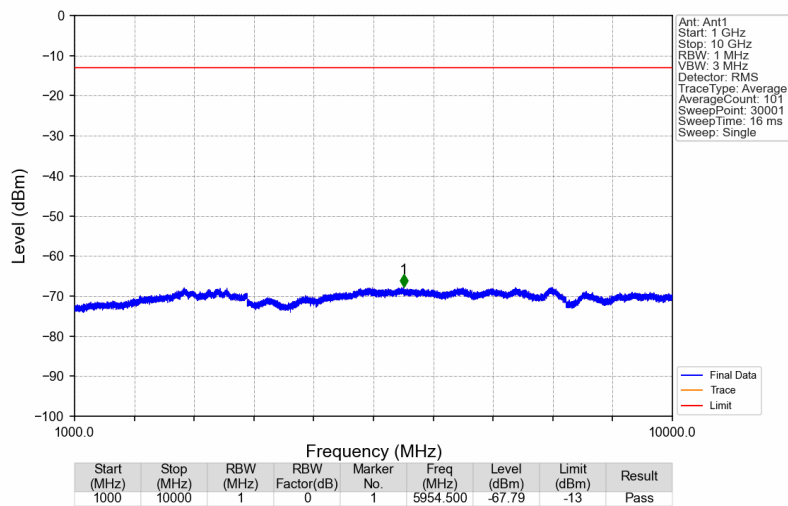
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7. Frequency stability measurements

7.1 Band12_Ant1

7.1.1 Test Result

Band: 12								
Signal			Temp (°C)	Voltage (VAC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict	
Type	Level (dBm)	Frequency (MHz)						
CW	-2.2	729.1	20	102	729.10	0.00	Pass	
				120	729.10	0.00	Pass	
				138	729.10	0.00	Pass	
			-30	120	729.10	0.00	Pass	
				-20	120	729.10	0.00	Pass
					120	729.10	0.00	Pass
			-10	120	729.10	0.00	Pass	
				0	120	729.10	0.00	Pass
			10	120	729.10	0.00	Pass	
				30	120	729.10	0.00	Pass
		40	120	729.10	0.00	Pass		
			50	120	729.10	0.00	Pass	
		737.5	20	102	737.50	0.00	Pass	
				120	737.50	0.00	Pass	
				138	737.50	0.00	Pass	
			-30	120	737.50	0.00	Pass	
				-20	120	737.50	0.00	Pass
					120	737.50	0.00	Pass
			-10	120	737.50	0.00	Pass	
				0	120	737.50	0.00	Pass
			10	120	737.50	0.00	Pass	
				30	120	737.50	0.00	Pass
		40	120	737.50	0.00	Pass		
			50	120	737.50	0.00	Pass	
		745.9	20	102	745.90	0.00	Pass	
				120	745.90	0.00	Pass	
				138	745.90	0.00	Pass	
			-30	120	745.90	0.00	Pass	
				-20	120	745.90	0.00	Pass
					120	745.90	0.00	Pass
-10	120		745.90	0.00	Pass			
	0		120	745.90	0.00	Pass		
10	120		745.90	0.00	Pass			
	30		120	745.90	0.00	Pass		
40	120	745.90	0.00	Pass				
	50	120	745.90	0.00	Pass			



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