

Appendix A for KSCR2208001584AT

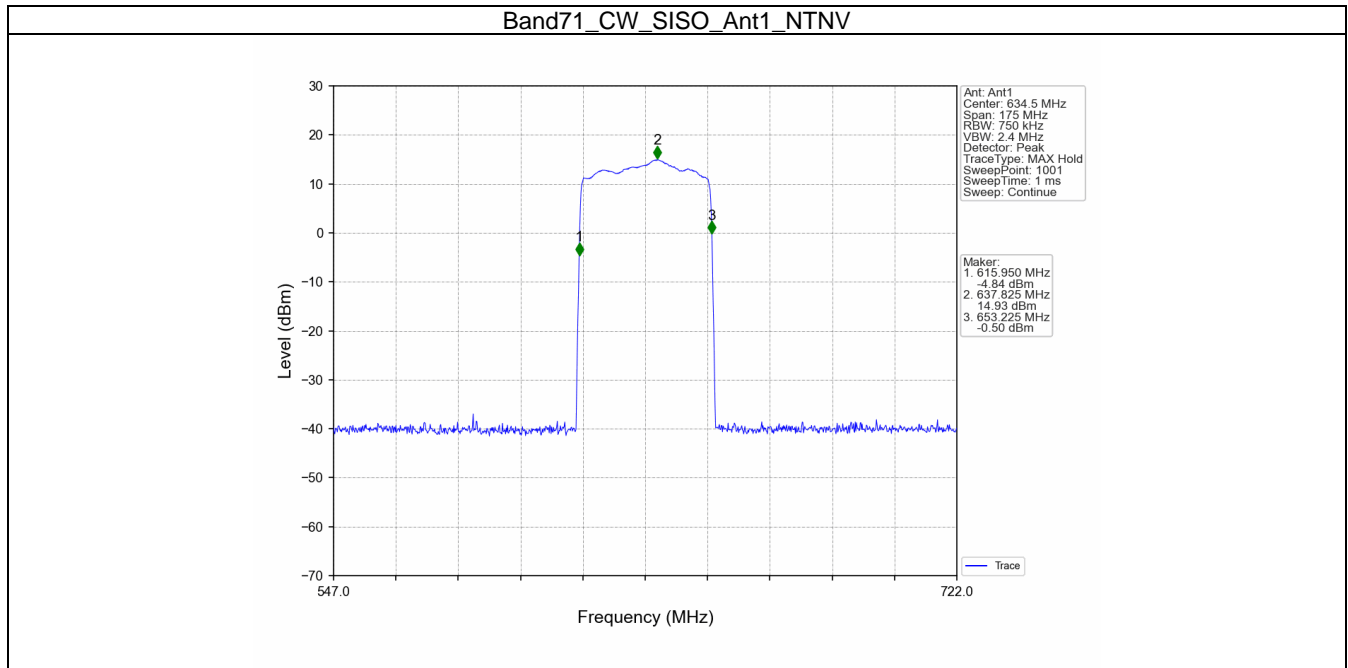
1. Out of band rejection

1.1 Band71

1.1.1 Test Result

Band: 71 / NTV							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	547 - 722	SISO	1	637.825	615.950	653.225	Pass

1.1.2 Test Graph



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2. AGC threshold

2.1 Band71

2.1.1 Test Result

Band: 71 / NTV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
AWGN	637.825	SISO	1	-3.20	Pass
GMSK	637.825	SISO	1	-2.20	Pass



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3. Input-versus-output signal comparison

3.1 Band71_OBW

3.1.1 Test Result

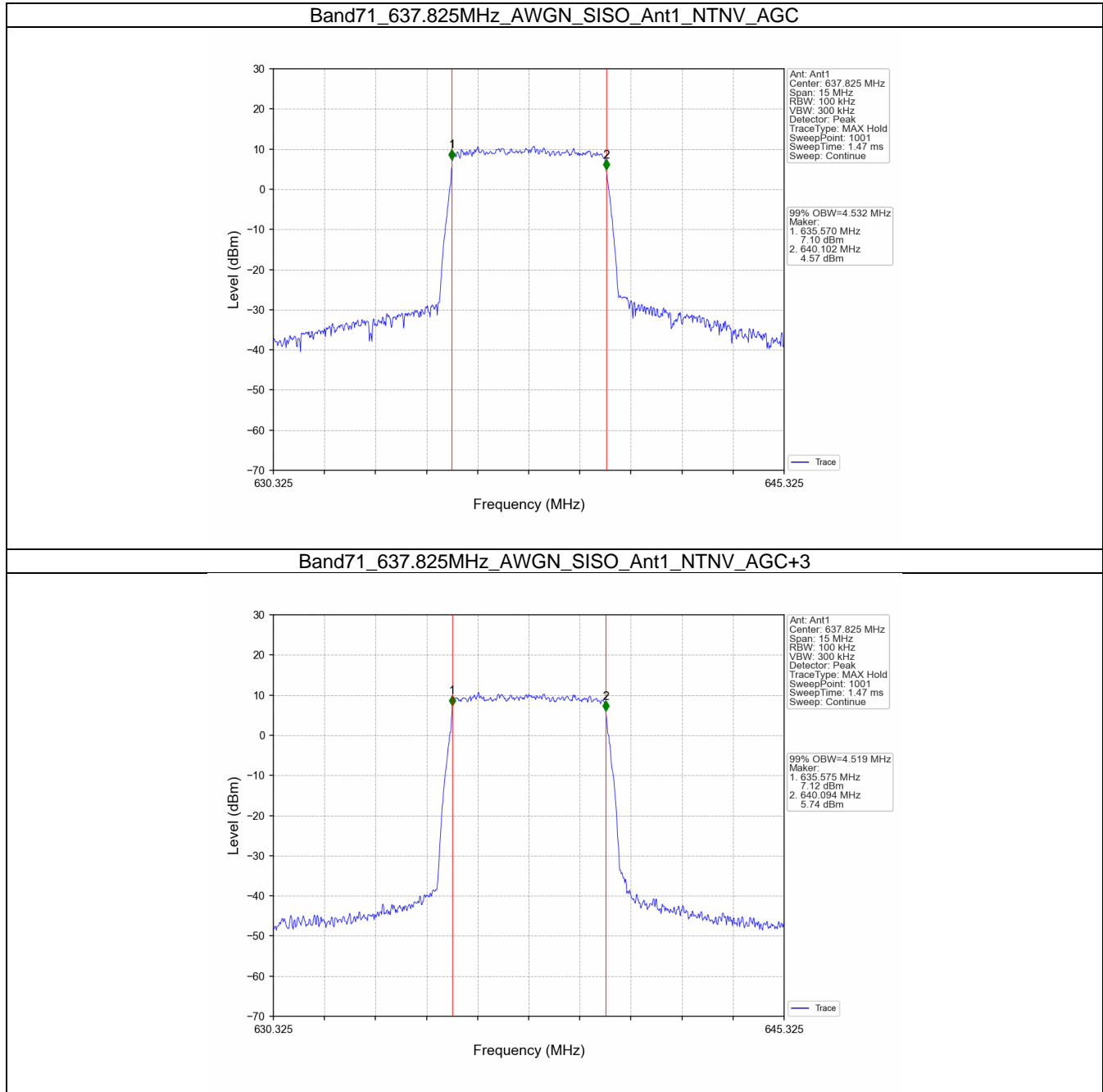
Band: 71 / NTVN							
Type	Signal		TX Type	ANT	99% OBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	-0.2	637.825	SISO	1	4.532	4.540	Pass
	-3.2	637.825	SISO	1	4.519	4.534	Pass
GMSK	0.8	637.825	SISO	1	0.245	0.245	Pass
	-2.2	637.825	SISO	1	0.243	0.244	Pass



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3.1.2 Test Graph



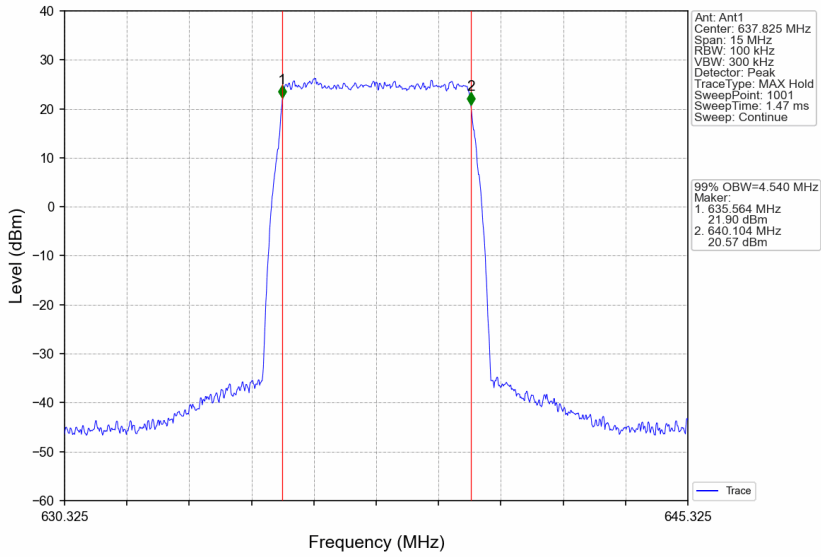
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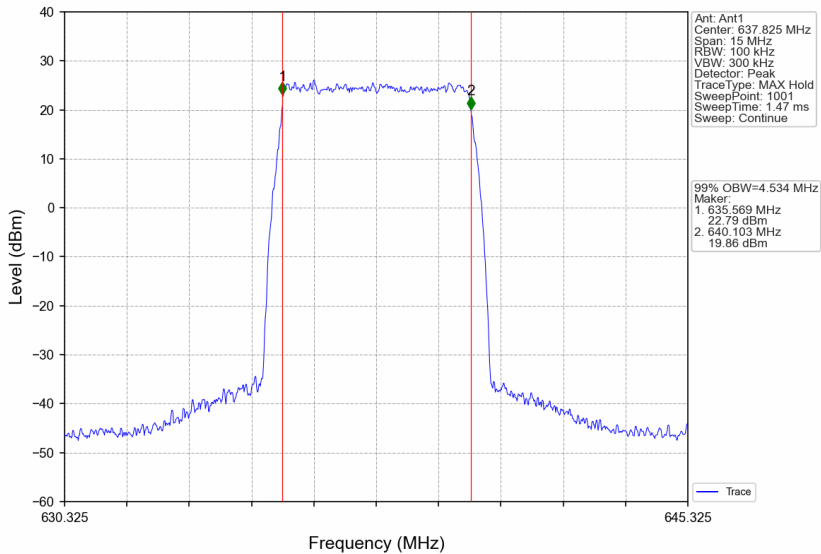
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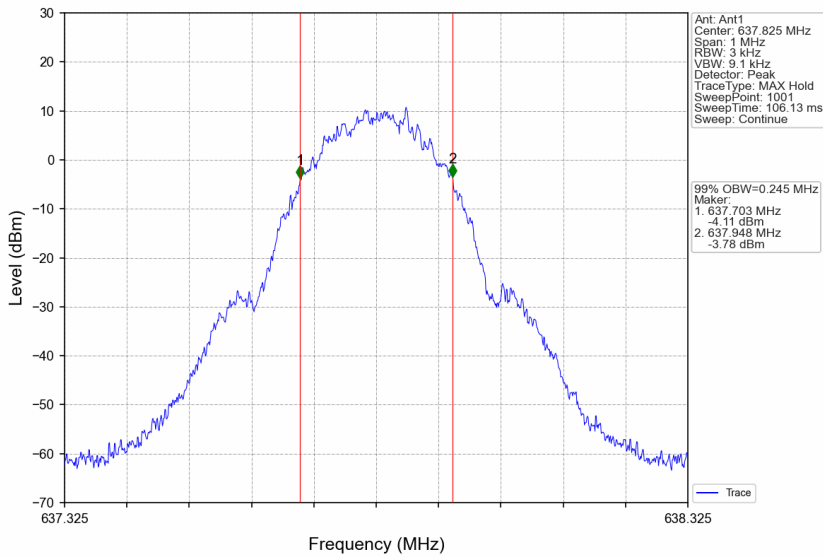


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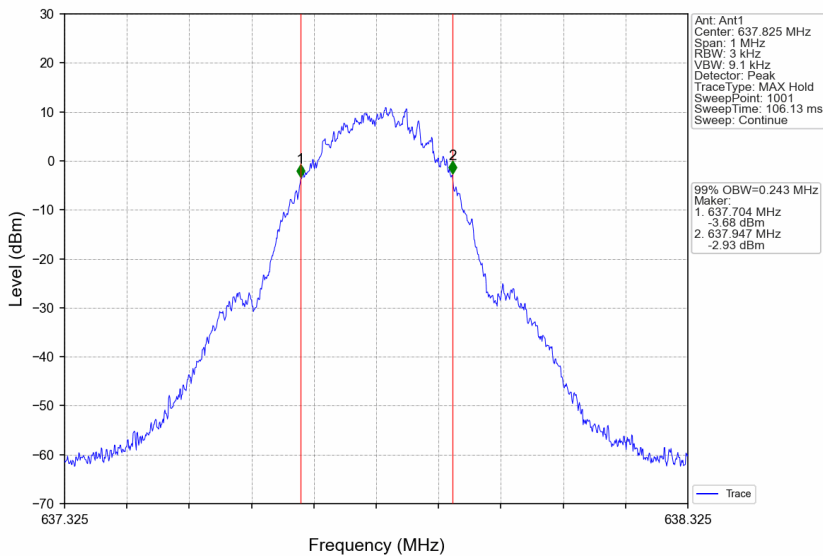
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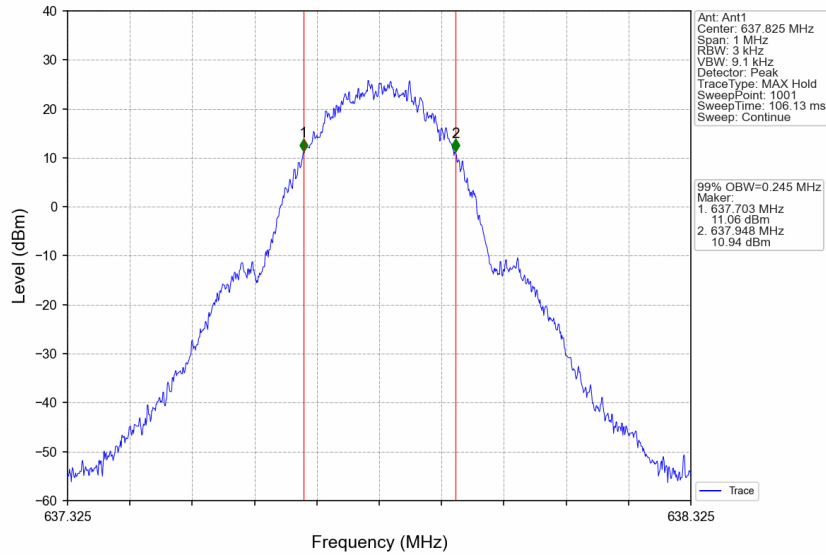


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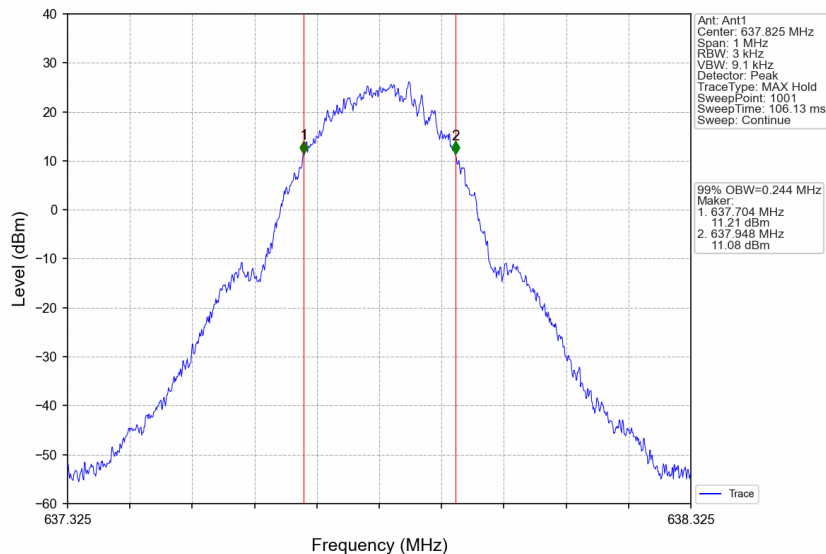
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3.2 Band71_EBW

3.2.1 Test Result

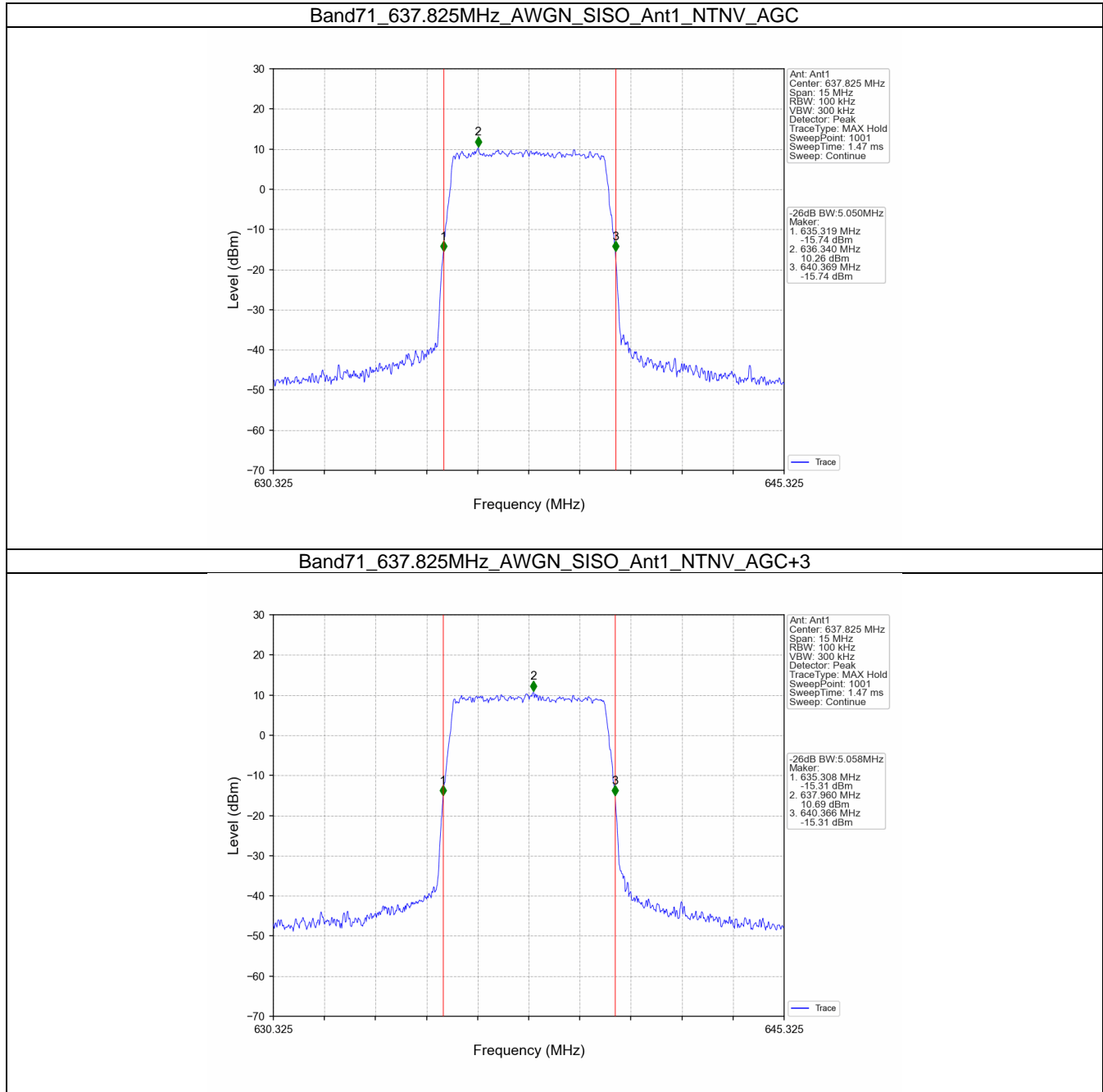
Band: 71 / NTNV							
Type	Signal		TX Type	ANT	26dB EBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	-0.2	637.825	SISO	1	5.050	5.052	Pass
	-3.2	637.825	SISO	1	5.058	5.067	Pass
GMSK	0.8	637.825	SISO	1	0.315	0.314	Pass
	-2.2	637.825	SISO	1	0.313	0.313	Pass



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3.2.2 Test Graph



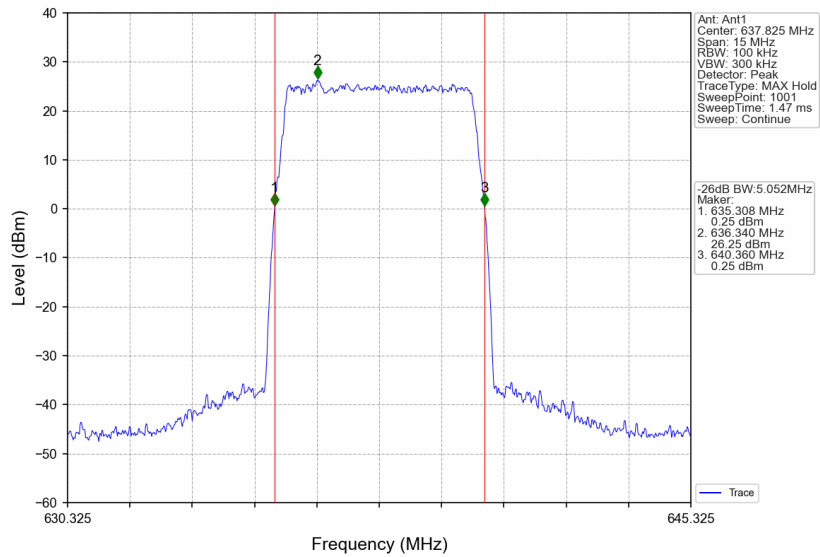
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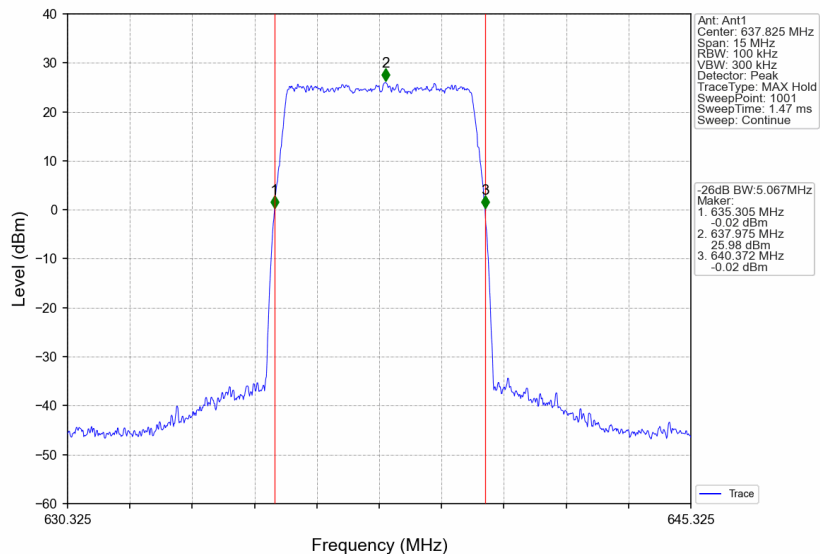
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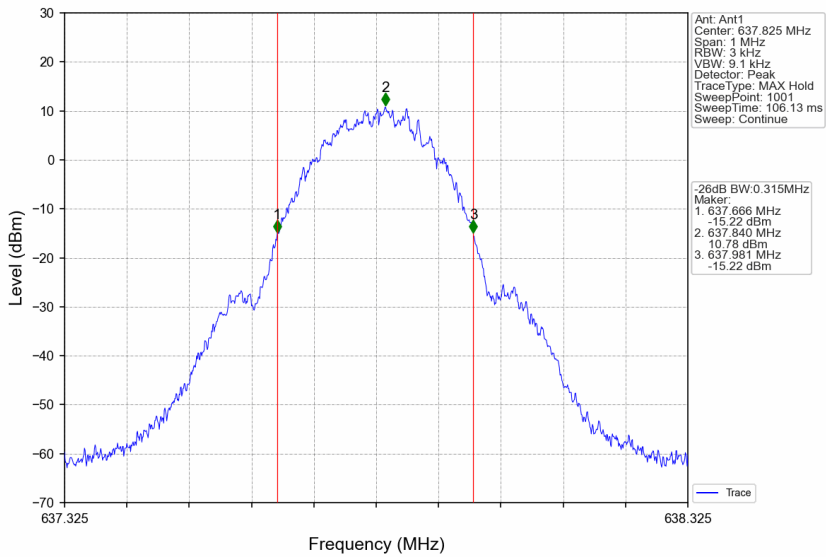


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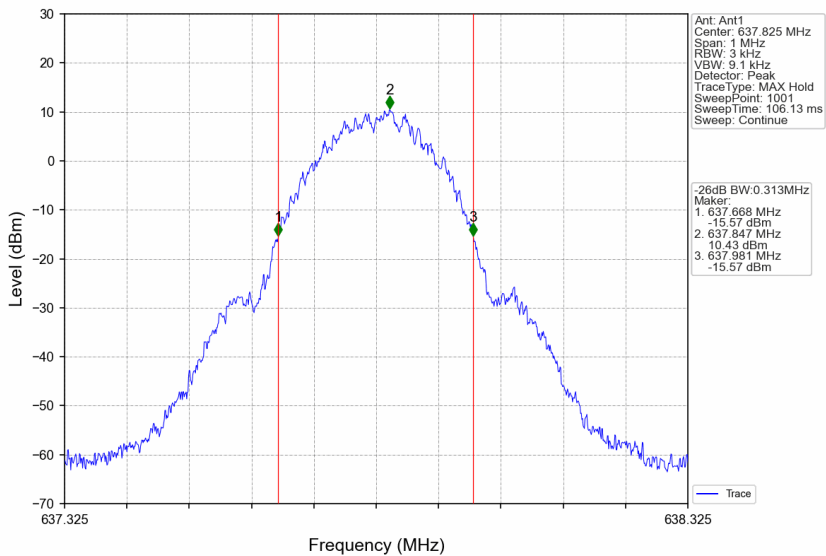
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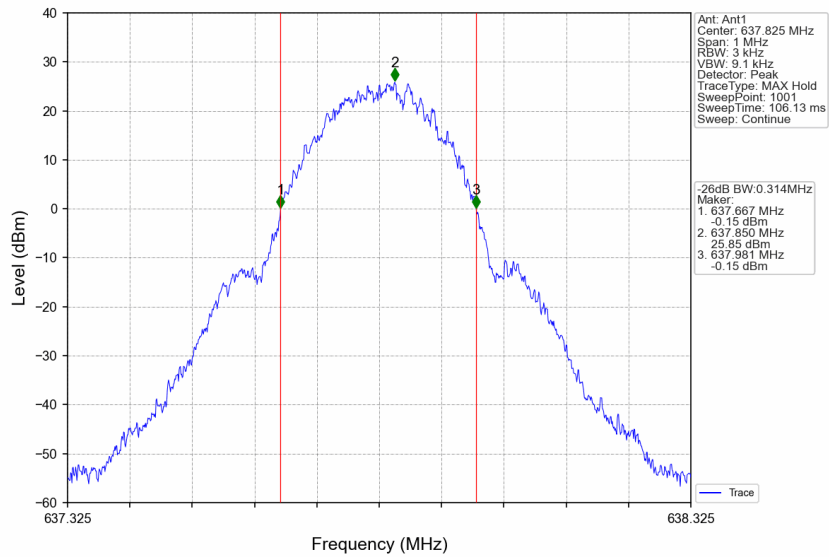
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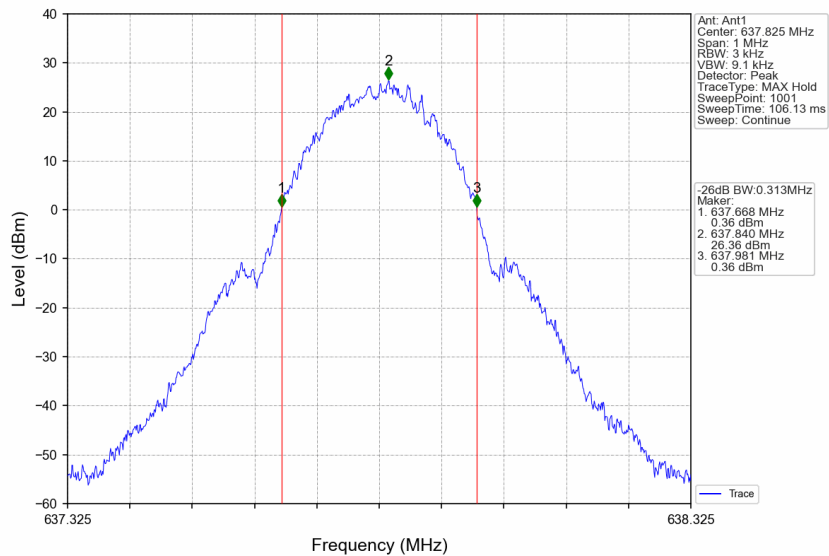
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4. Input/output power and amplifier/booster gain

4.1 Band71_ERP

4.1.1 Test Result

617MHz-652MHz/ NTNV										
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	-3.2	637.825	SISO	1	10.15	-8.41	10.92	<=60	18.56	Pass
	-0.2	637.825	SISO	1	12.11	-6.10	12.88	<=60	/	Pass
GMSK	-2.2	637.825	SISO	1	16.50	-1.27	17.27	<=60	17.77	Pass
	0.8	637.825	SISO	1	17.52	1.74	18.29	<=60	/	Pass

617MHz-652MHz / NTNV											
Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Conducted Power (dBm/MHz)				Total Output Power (dBm/MHz)	ERP (dBm/MHz)	Gain (dB)
					Ant 1	Ant 2	Ant 3	Ant 4			
SISO mode											
617MHz-652MHz	637.825	AWGN	Pre-AGC	-3.2	10.15	--	--	--	10.15	10.92	18.56
			3dB Above AGC	-0.2	12.11	--	--	--	12.11	12.88	/
	637.825	GMSK	Pre-AGC	-2.2	16.50	--	--	--	16.50	17.27	17.77
			3dB Above AGC	0.8	17.52	--	--	--	17.52	18.29	/

617MHz-652MHz / NTNV											
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											
617MHz-652MHz	637.825	AWGN	Pre-AGC	-3.2	10.15	13.16	16.17	10.92	13.93	16.94	/
			3dB Above AGC	-0.2	12.11	15.12	18.13	12.88	15.89	18.9	/
	637.825	GMSK	Pre-AGC	-2.2	16.50	19.51	22.52	17.27	20.28	23.29	/
			3dB Above AGC	0.8	17.52	20.53	23.54	18.29	21.30	24.31	/



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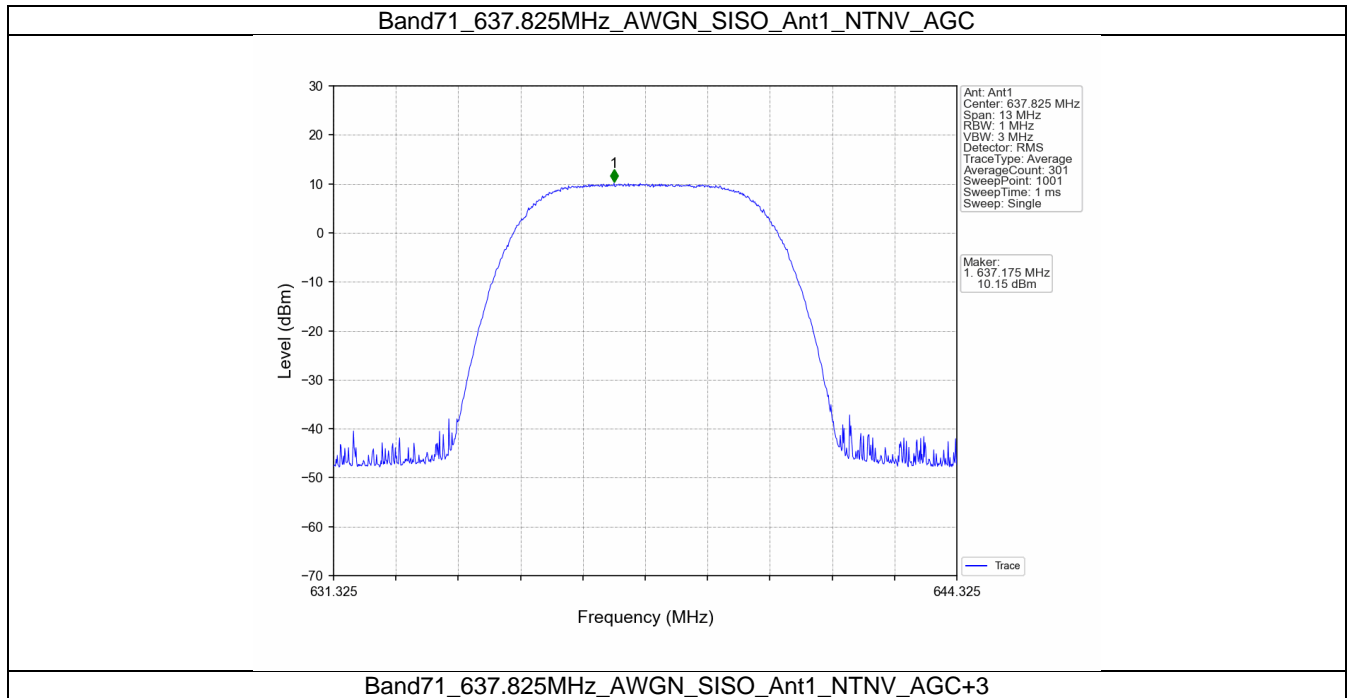
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617MHz-652MHz / NTV											
Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Total Output Power (dBm)			ERP (dBm)			Gain (dB)
					SISO	2X2 MIMO	4X4 MIMO	SISO	2X2 MIMO	4X4 MIMO	
MIMO mode											
617MHz-652MHz	637.825	AWGN	Pre-AGC	-3.2	17.13	20.14	23.15	17.90	20.91	23.92	/
			3dB Above AGC	-0.2	19.09	22.10	25.11	19.86	22.87	22.87	/
	637.825	GMSK	Pre-AGC	-2.2	16.50	19.51	22.52	17.27	20.28	20.28	/
			3dB Above AGC	0.8	17.52	20.53	23.54	18.29	21.30	21.30	/

4.1.2 Test Graph

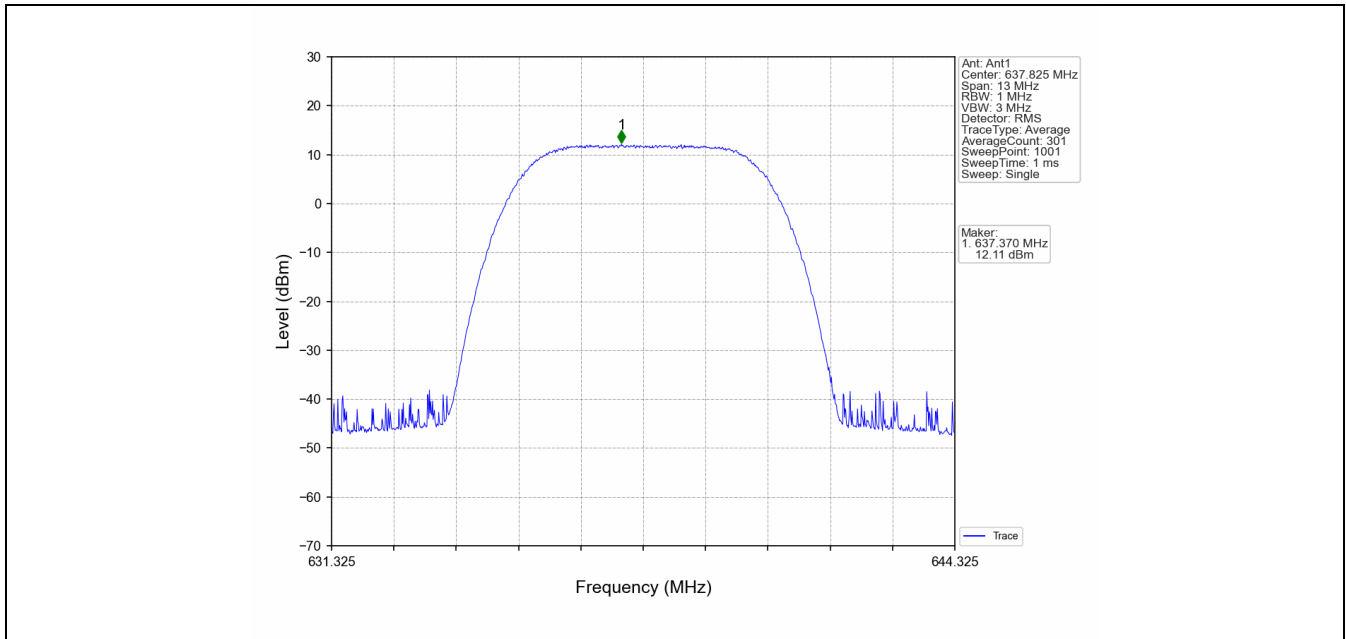


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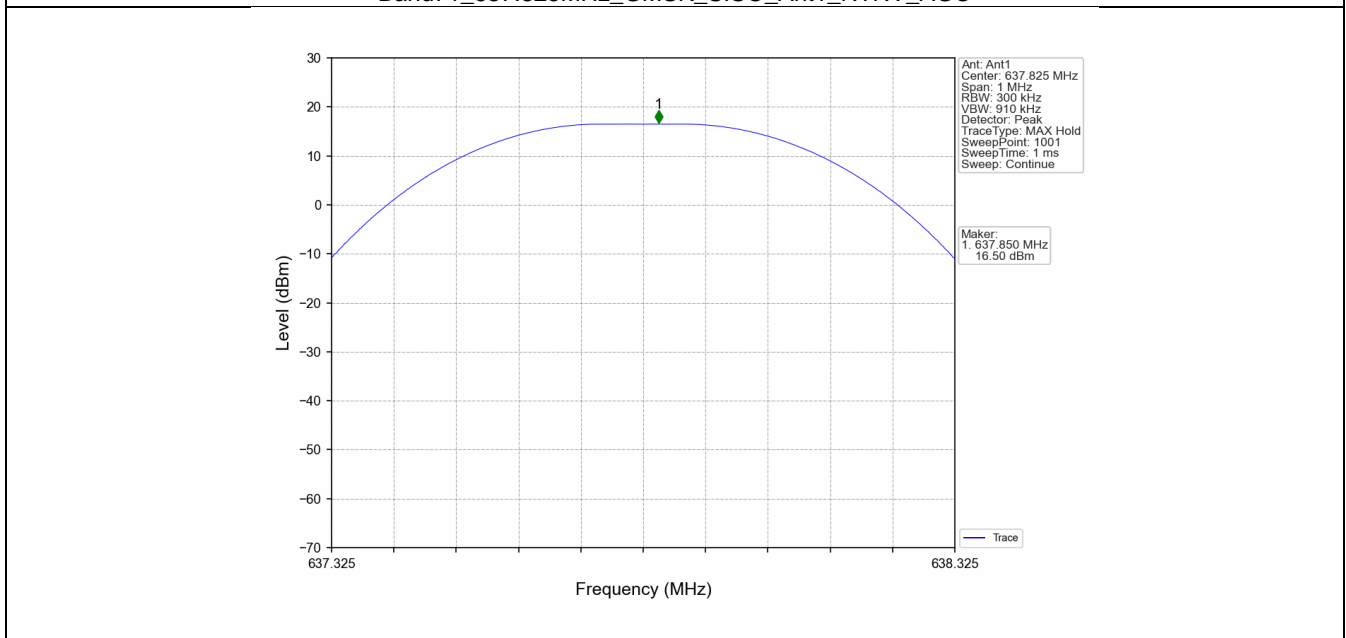
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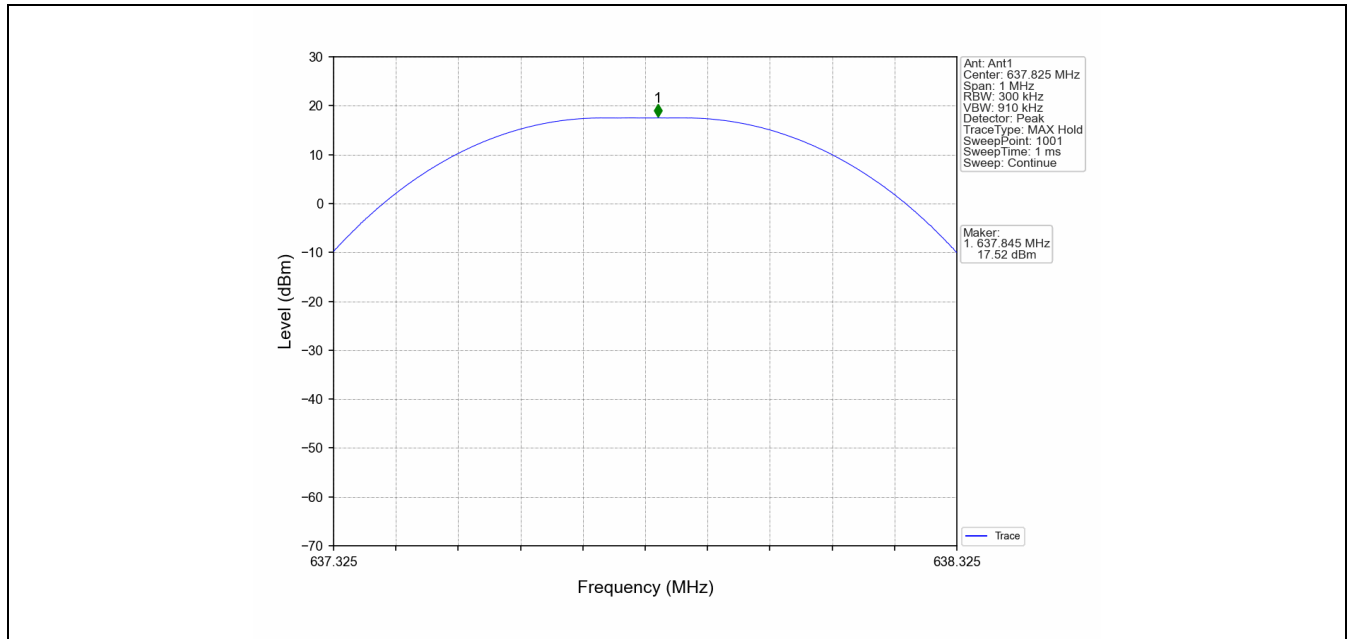
Band71_637.825MHz_GMSK_SISO_Ant1_NTNV_AGC



Band71_637.825MHz_GMSK_SISO_Ant1_NTNV_AGC+3



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4.2 Band71_PAPR

4.2.1 Test Result

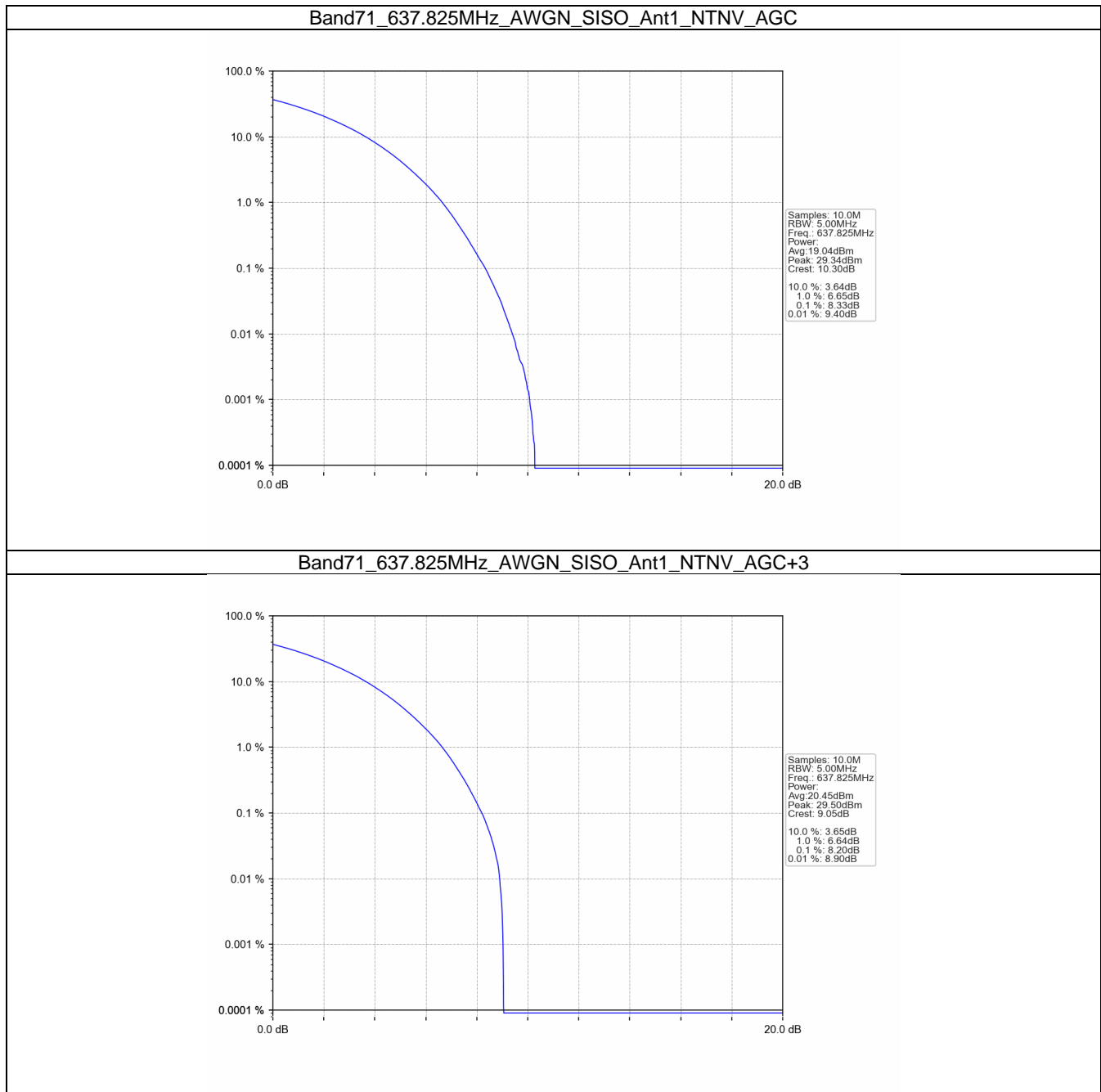
Band: 71 / NTV							
Type	Signal		TX Type	ANT	PAPR (dB)		Verdict
	Level (dBm)	Frequency (MHz)			Result	Limit	
AWGN	-3.2	637.825	SISO	1	8.33	<=13	Pass
	-0.2	637.825	SISO	1	8.20	<=13	Pass
GMSK	-2.2	637.825	SISO	1	0.26	<=13	Pass
	0.8	637.825	SISO	1	0.26	<=13	Pass



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4.2.2 Test Graph

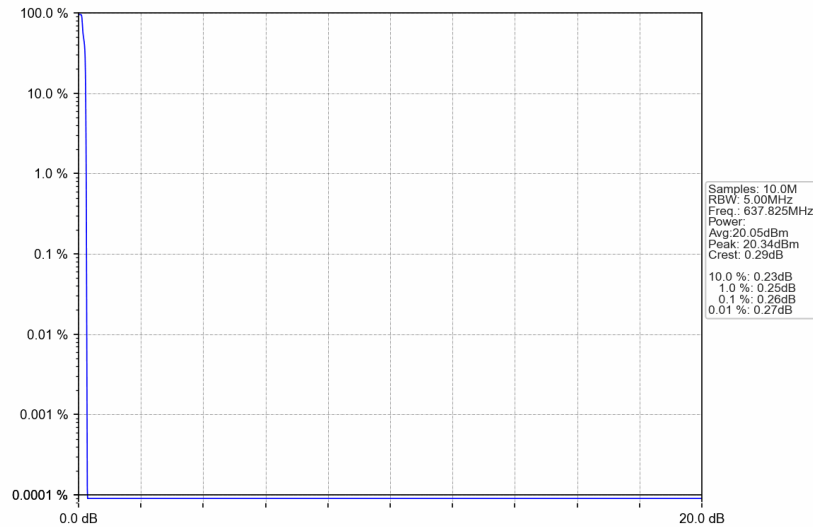


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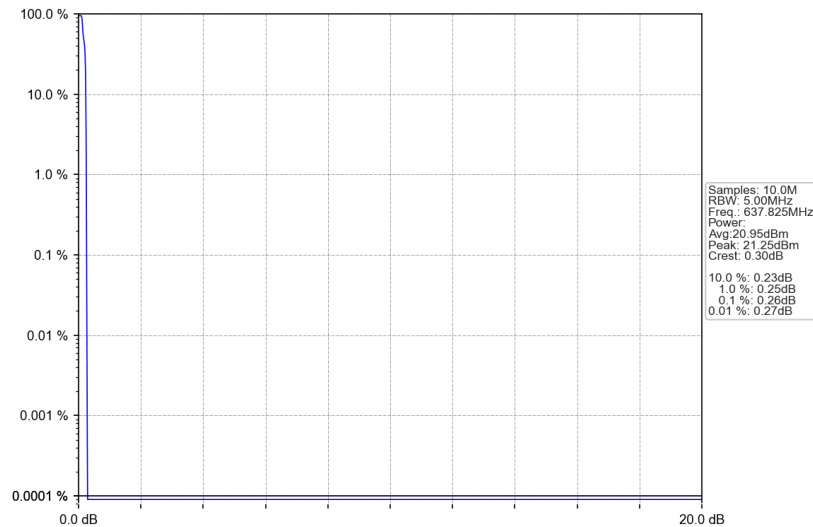
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Band71_637.825MHz_GMSK_SISO_Ant1_NTNV_AGC



Band71_637.825MHz_GMSK_SISO_Ant1_NTNV_AGC+3



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

5.1 Band71

5.1.1 Test Result

Band: 71 / NTNV									
Input	Type	Signal		Channel	TX Type	ANT	OOB (dBm)		Verdict
		Level (dBm)	Frequency (MHz)				Result	Limit	
Two	AWGN	-3.2	619.5	LCH	SISO	1	-74.87	Refer To Test Graph	Pass
		-0.2	619.5	LCH	SISO	1	-75.13	Refer To Test Graph	Pass
One	AWGN	-3.2	619.5	LCH	SISO	1	-75.17	Refer To Test Graph	Pass
		-0.2	619.5	LCH	SISO	1	-74.75	Refer To Test Graph	Pass
Two	AWGN	-3.2	649.5	HCH	SISO	1	-74.90	Refer To Test Graph	Pass
		-0.2	649.5	HCH	SISO	1	-74.98	Refer To Test Graph	Pass
One	AWGN	-3.2	649.5	HCH	SISO	1	-75.16	Refer To Test Graph	Pass
		-0.2	649.5	HCH	SISO	1	-74.63	Refer To Test Graph	Pass
Two	GMSK	-2.2	617.1	LCH	SISO	1	-87.22	Refer To Test Graph	Pass
		0.8	617.1	LCH	SISO	1	-87.06	Refer To Test Graph	Pass
One	GMSK	-2.2	617.1	LCH	SISO	1	-87.07	Refer To Test Graph	Pass
		0.8	617.1	LCH	SISO	1	-87.08	Refer To Test Graph	Pass
Two	GMSK	-2.2	651.9	HCH	SISO	1	-86.84	Refer To Test Graph	Pass
		0.8	651.9	HCH	SISO	1	-87.03	Refer To Test Graph	Pass
One	GMSK	-2.2	651.9	HCH	SISO	1	-86.75	Refer To Test Graph	Pass
		0.8	651.9	HCH	SISO	1	-87.17	Refer To Test Graph	Pass

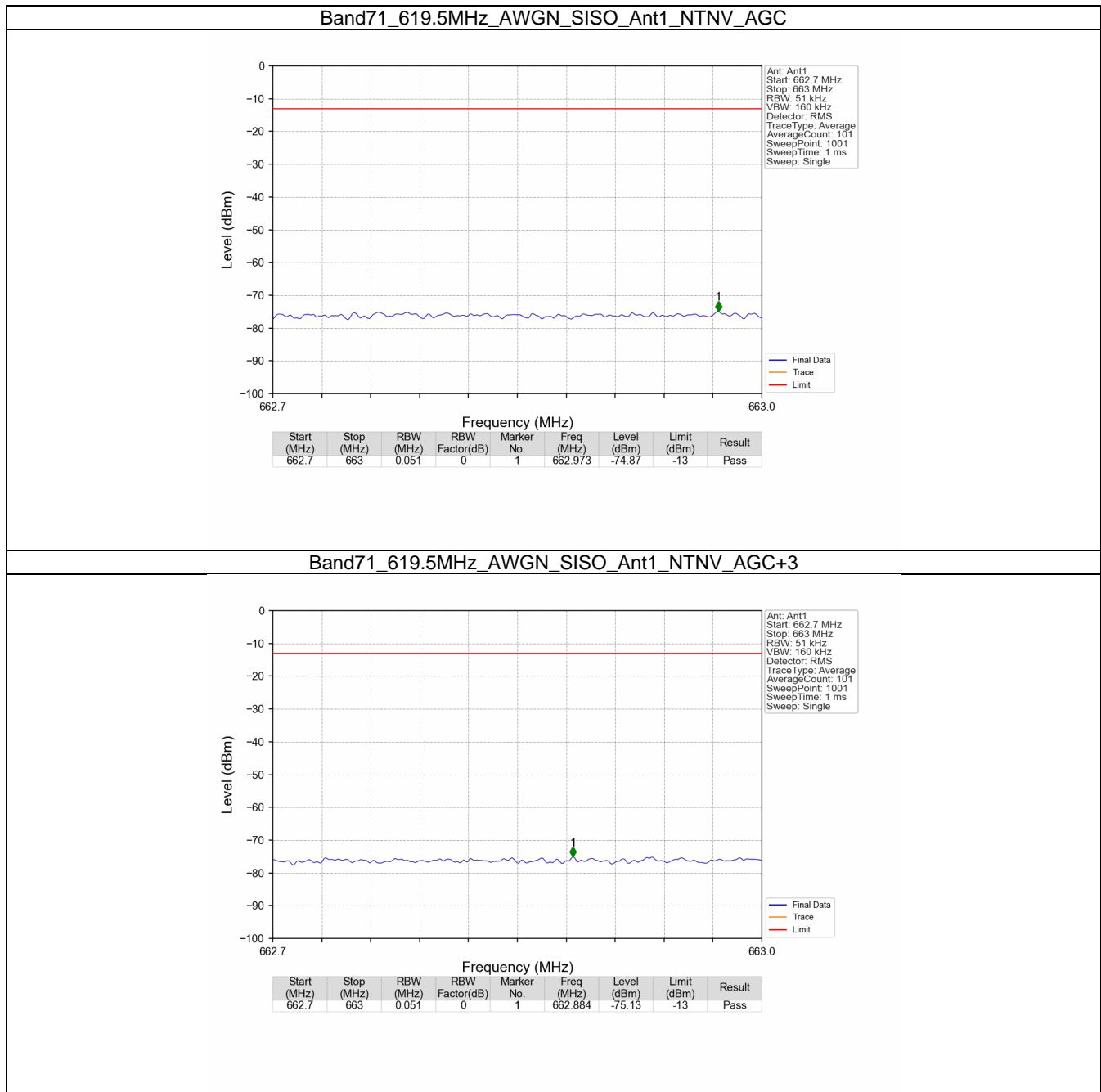


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5.1.2 Test Graph



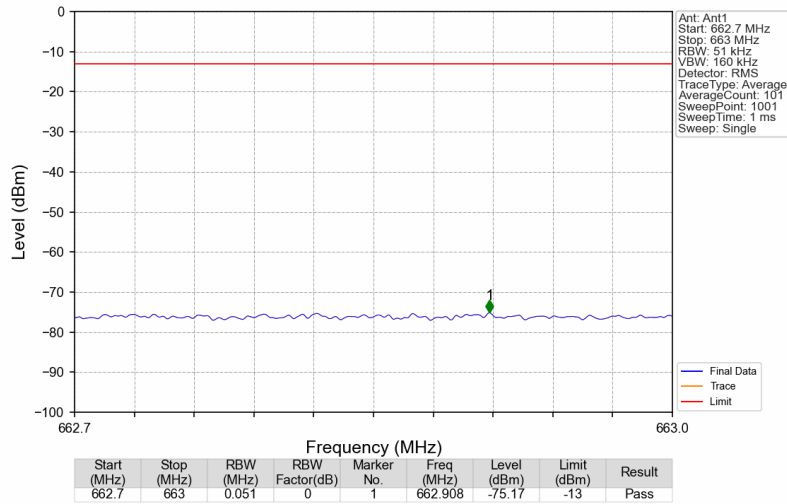
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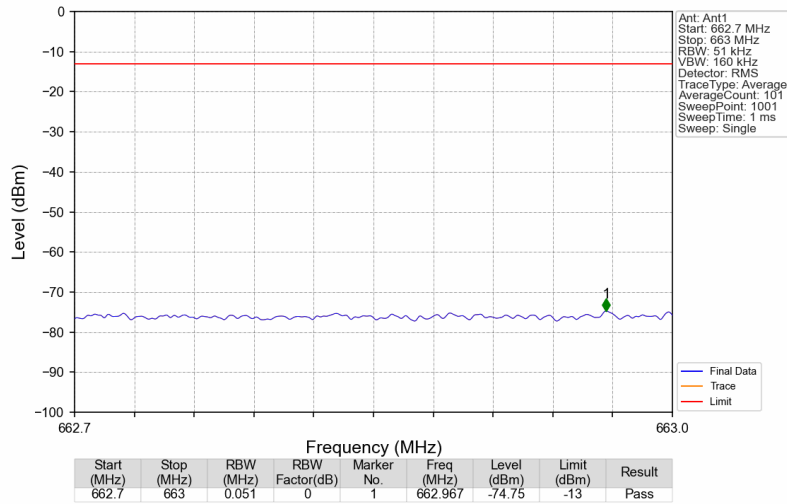
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Band71_619.5MHz_AWGN_SISO_Ant1_NTNV_AGC



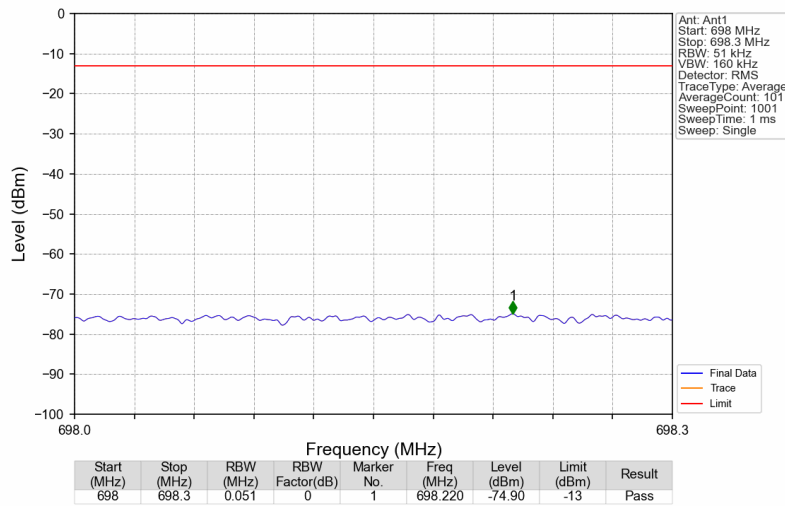
Band71_619.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



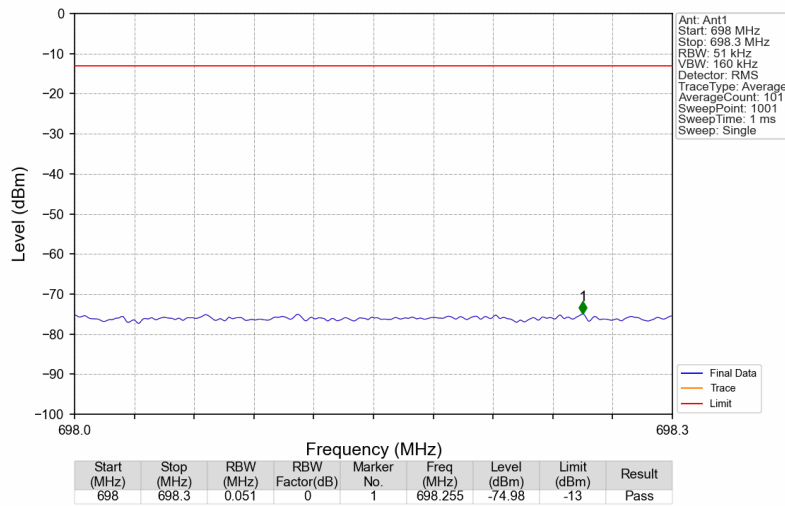
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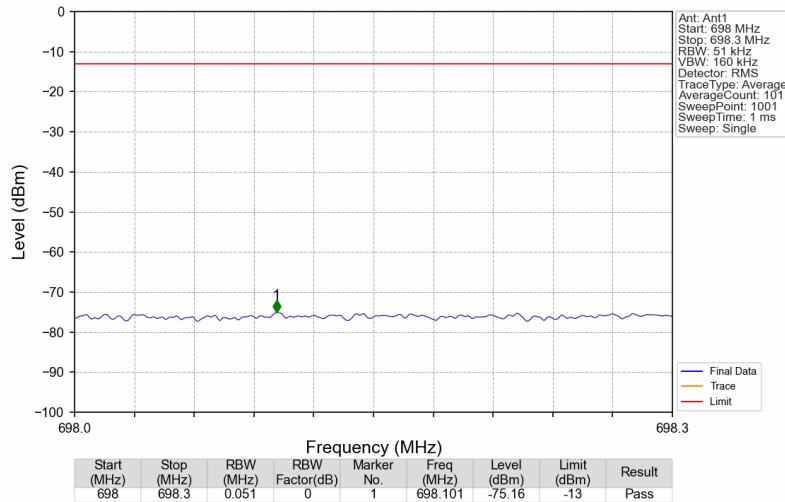
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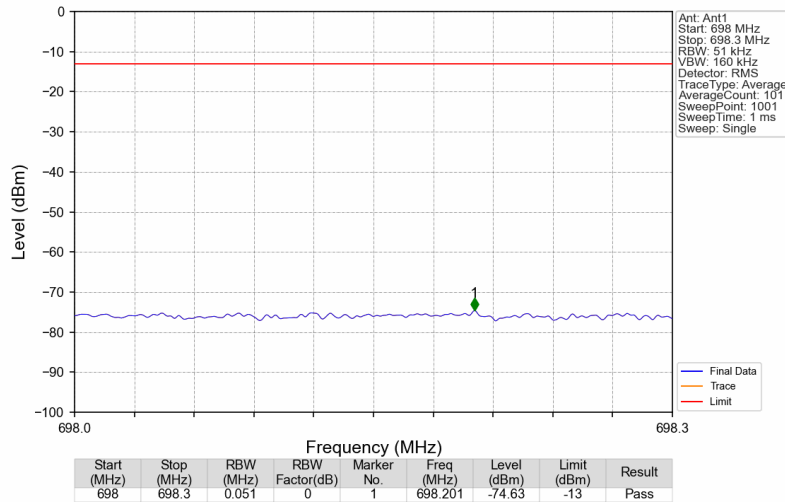
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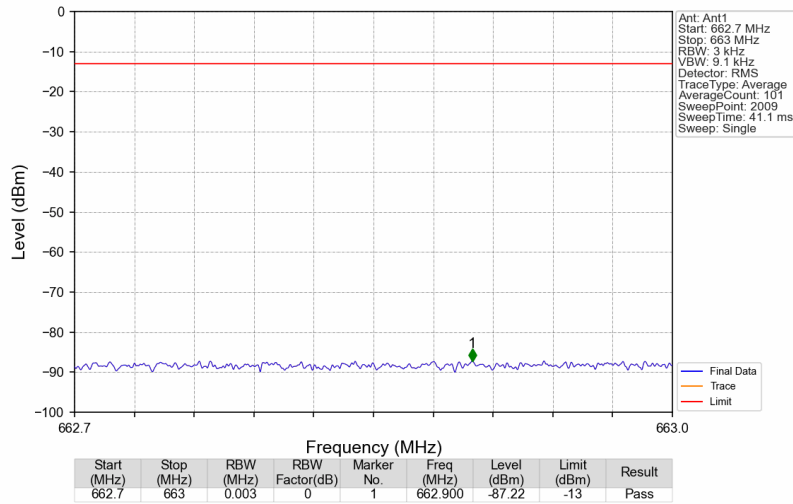
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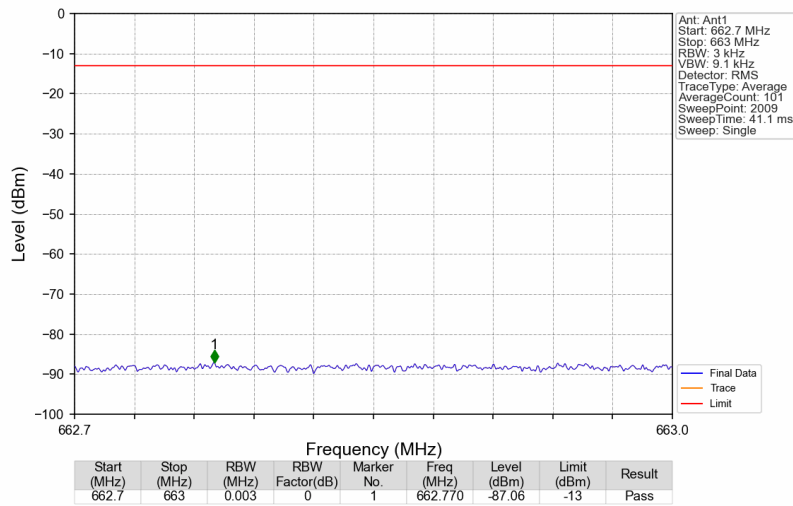
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Band71_617.1MHz_GMSK_SISO_Ant1_NTNV_AGC+3

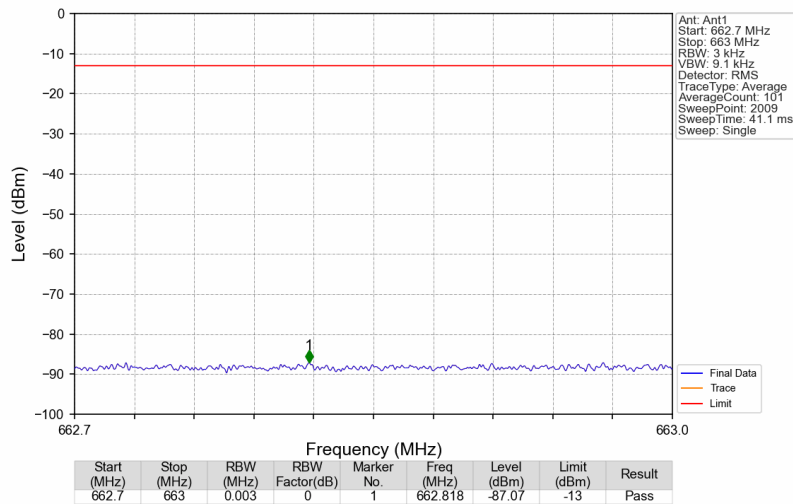


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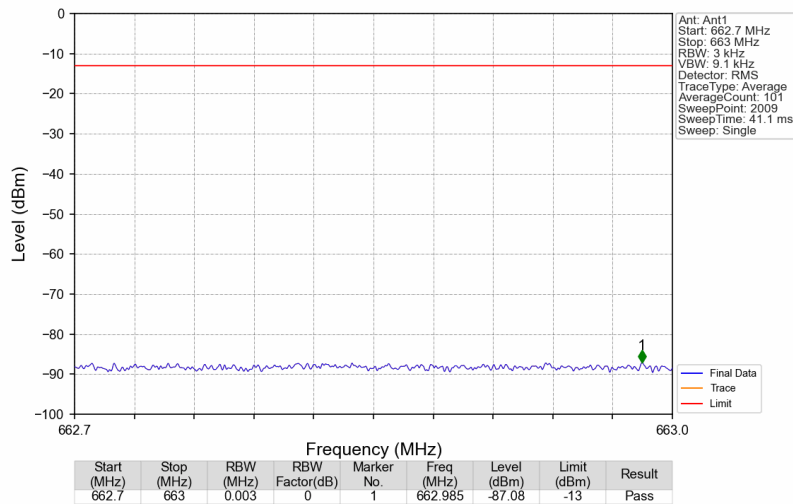
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Band71_617.1MHz_GMSK_SISO_Ant1_NTNV_AGC+3

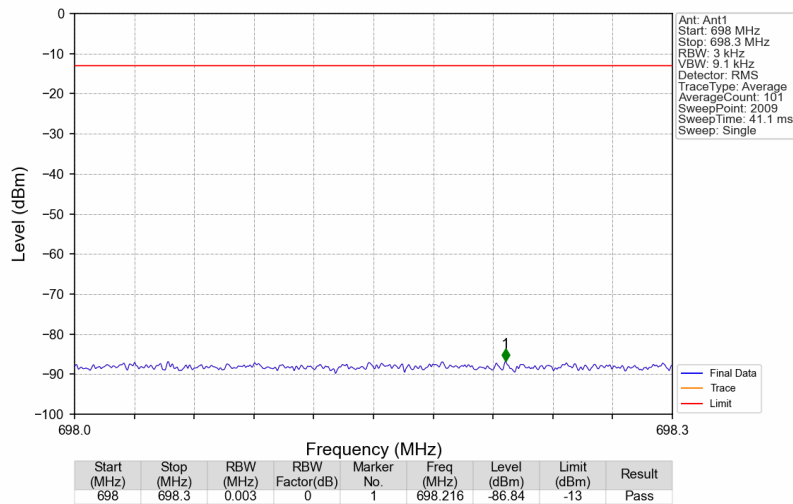


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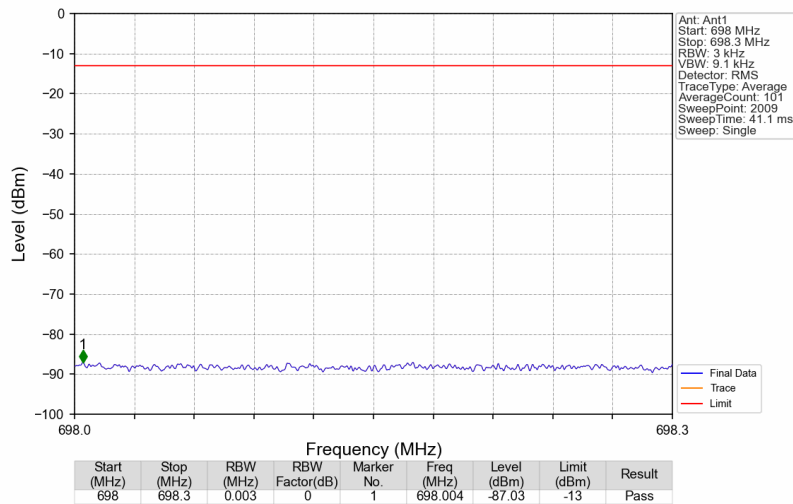
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Band71_651.9MHz_GMSK_SISO_Ant1_NTNV_AGC



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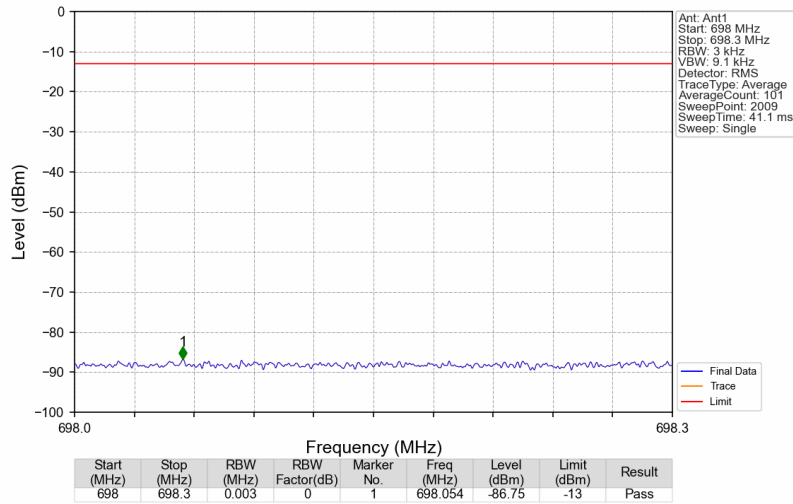


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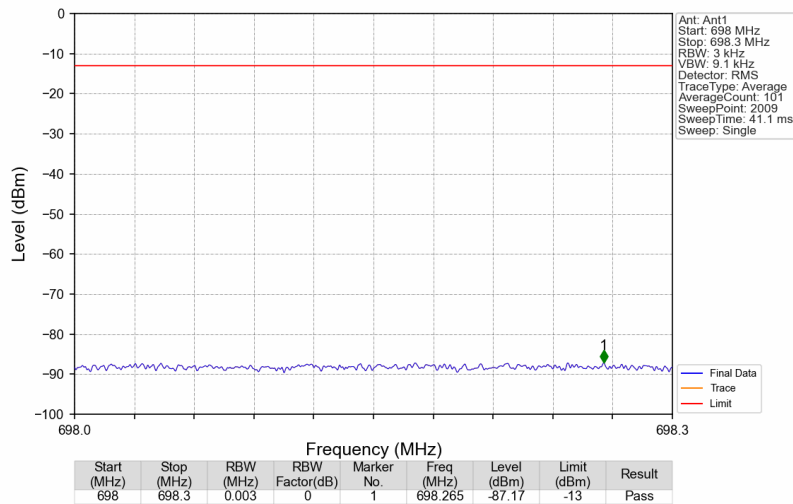
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6. Spurious emissions

6.1 Band71

6.1.1 Test Result

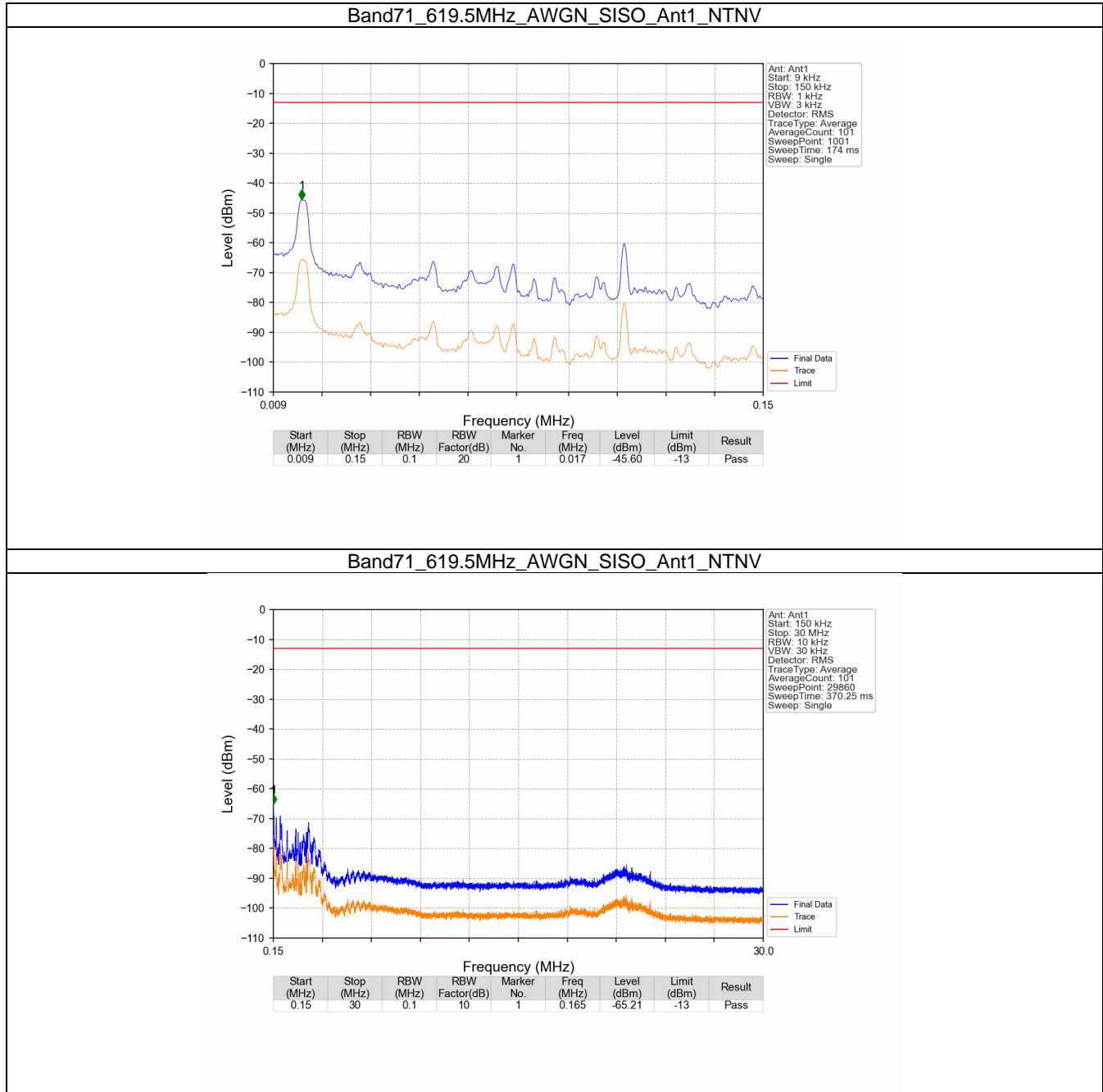
Band: 71 / NTNV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
AWGN	-3.2	619.5	LCH	SISO	1	Refer To Test Graph		Pass
		634.5	MCH	SISO	1	Refer To Test Graph		Pass
		649.5	HCH	SISO	1	Refer To Test Graph		Pass
GMSK	-2.2	617.1	LCH	SISO	1	Refer To Test Graph		Pass
		634.5	MCH	SISO	1	Refer To Test Graph		Pass
		651.9	HCH	SISO	1	Refer To Test Graph		Pass



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6.1.2 Test Graph



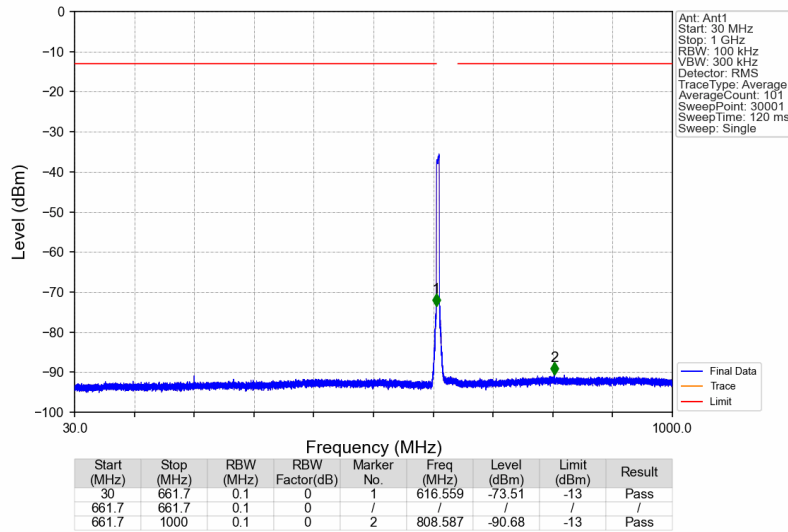
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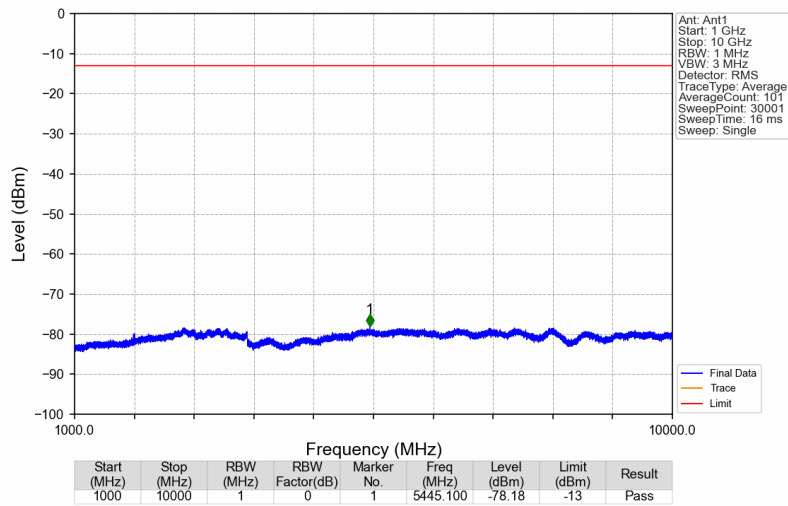
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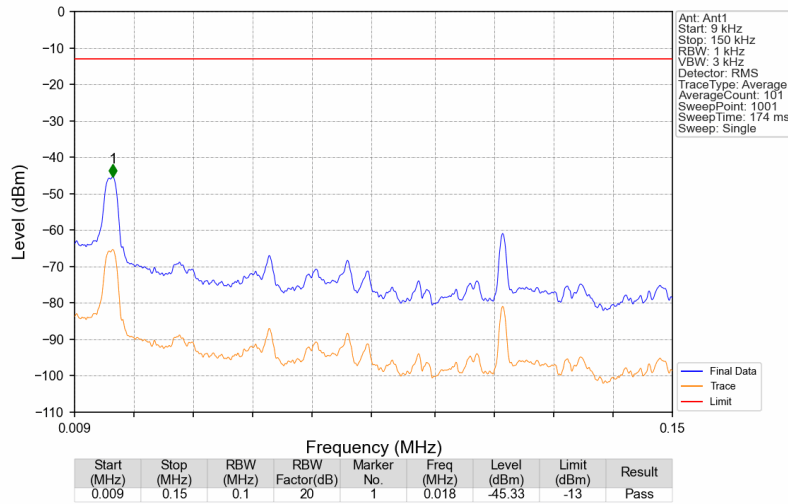


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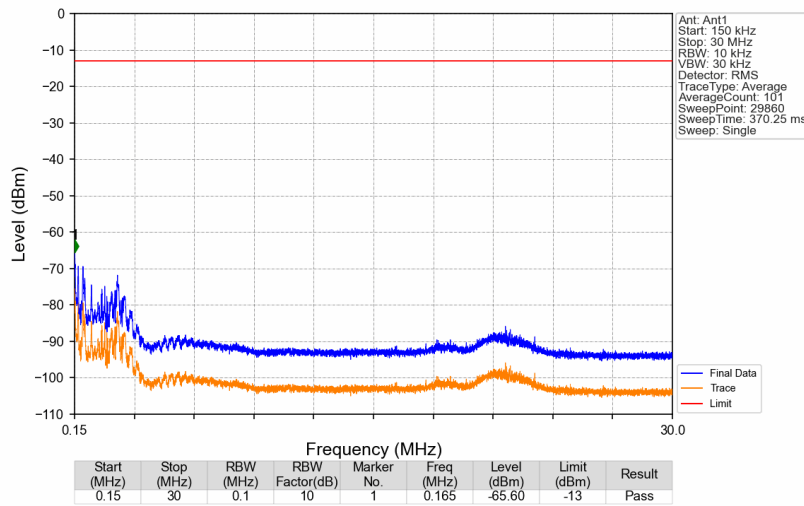
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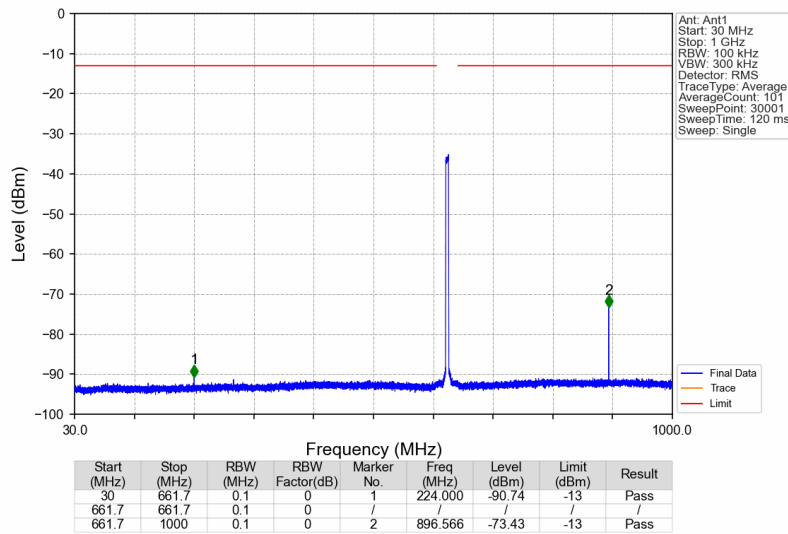
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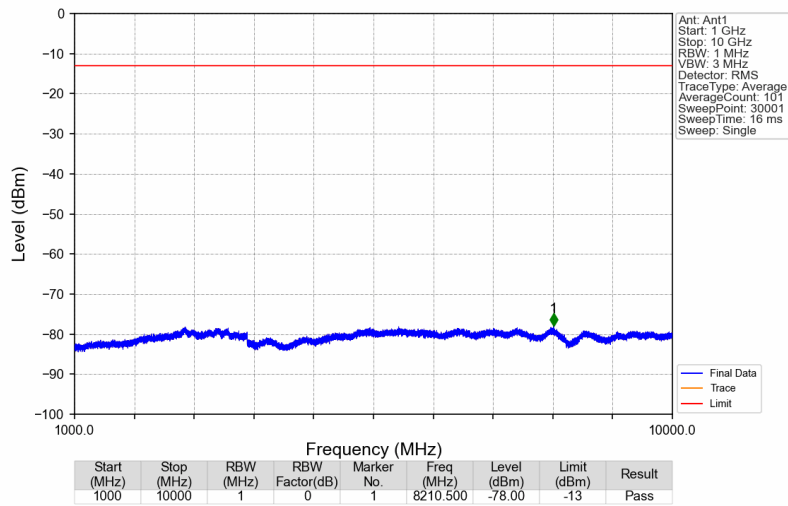
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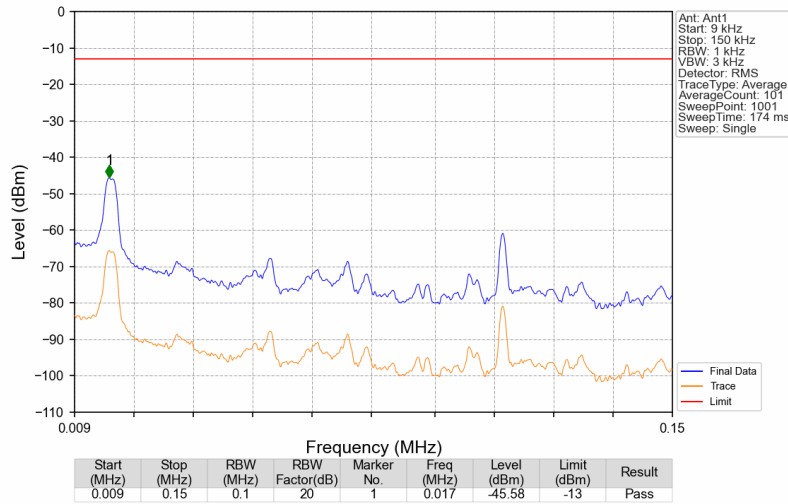


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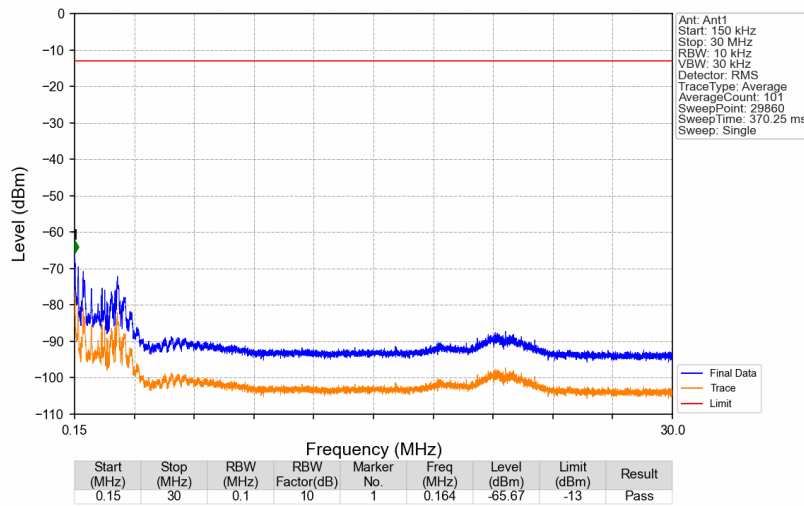
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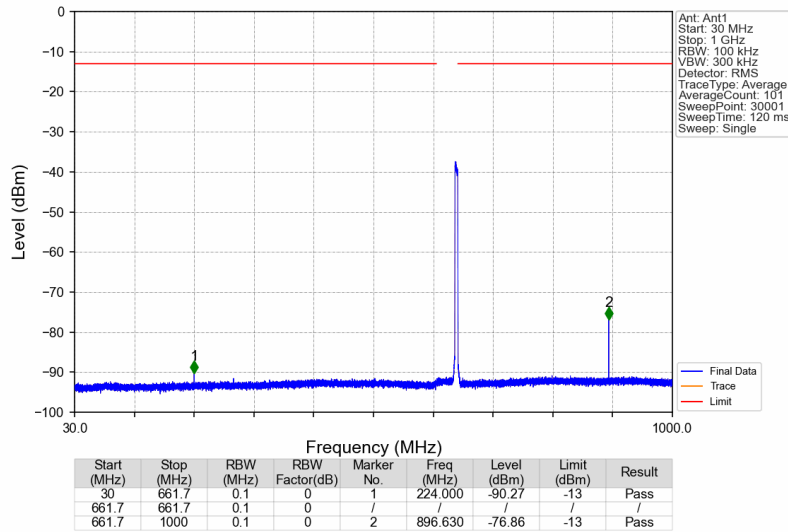


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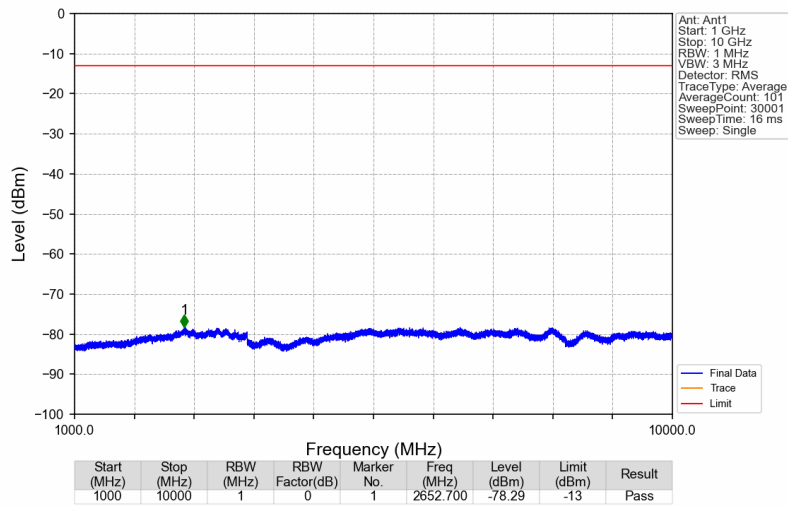
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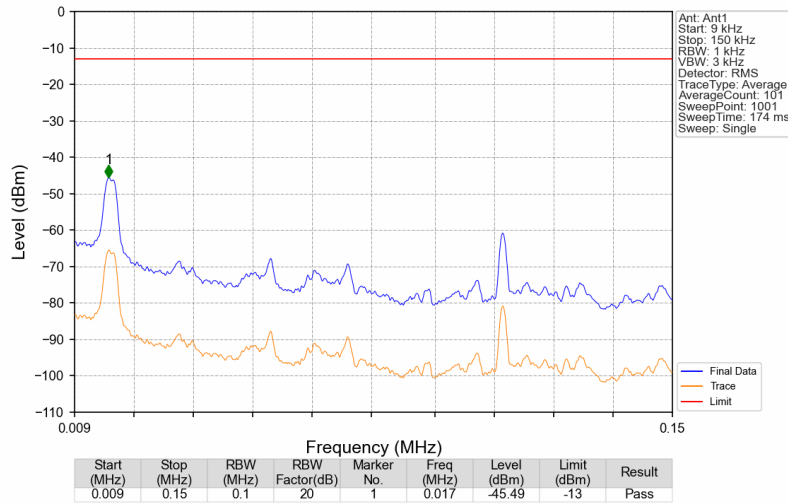


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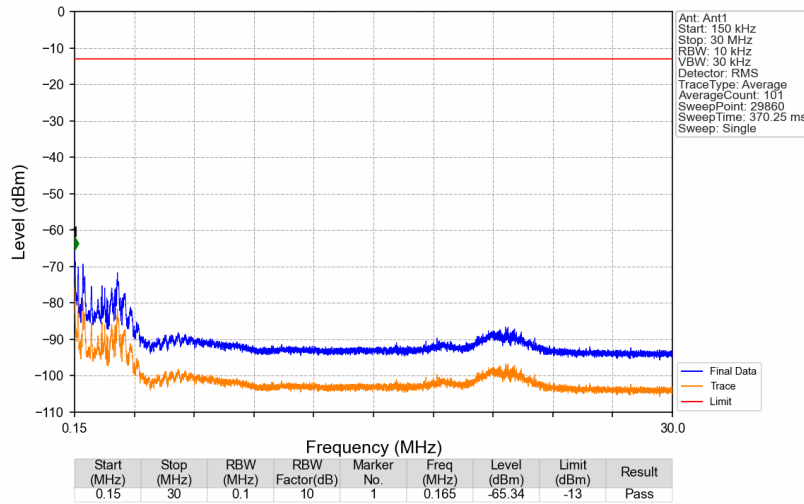
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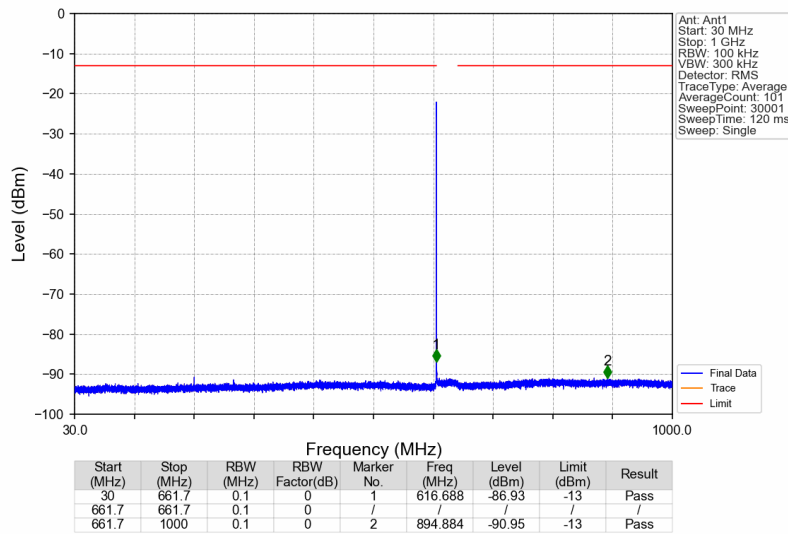


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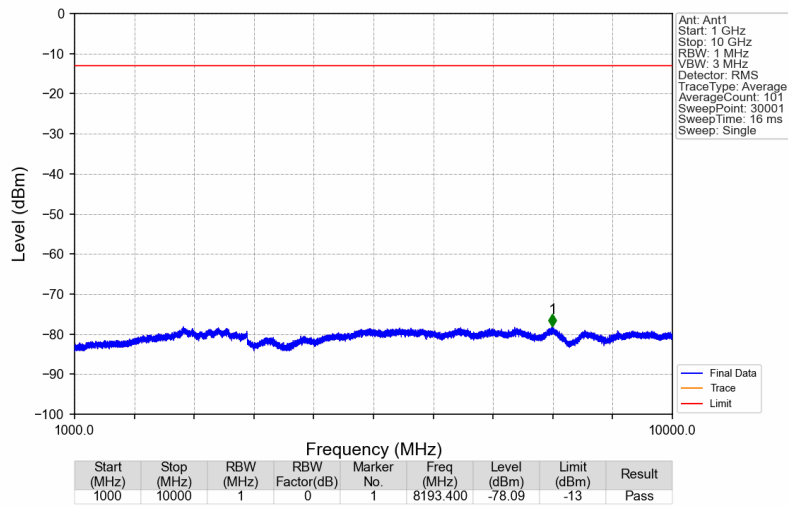
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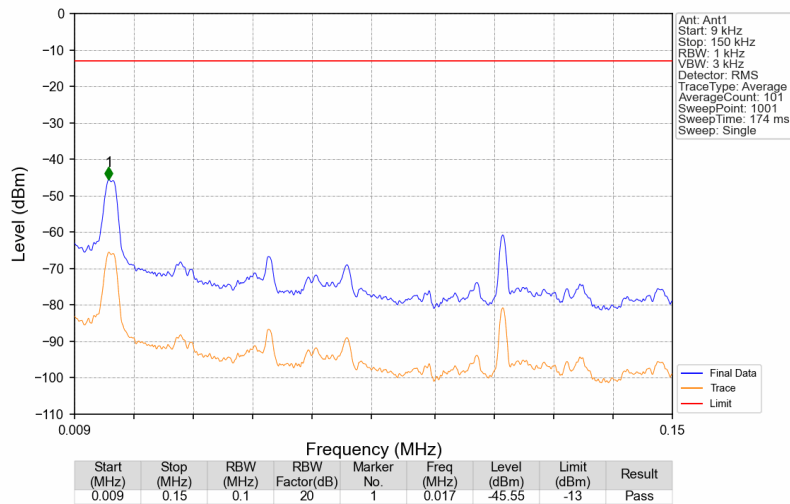


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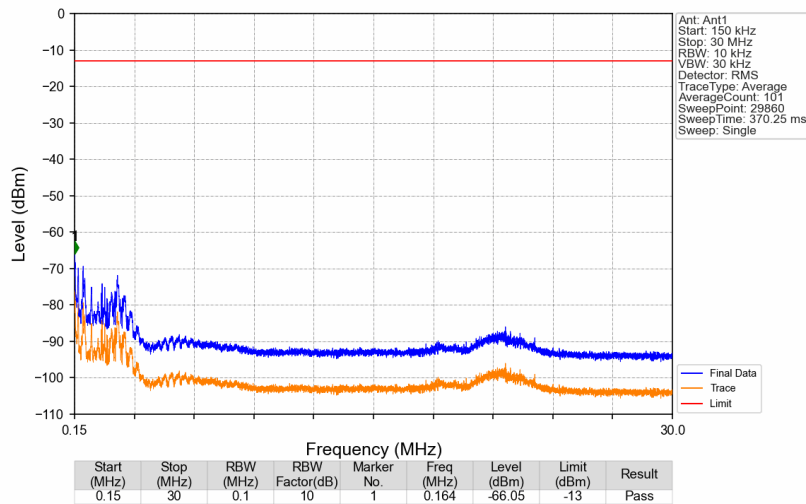
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Band71_634.5MHz_GMSK_SISO_Ant1_NTNV



Band71_634.5MHz_GMSK_SISO_Ant1_NTNV

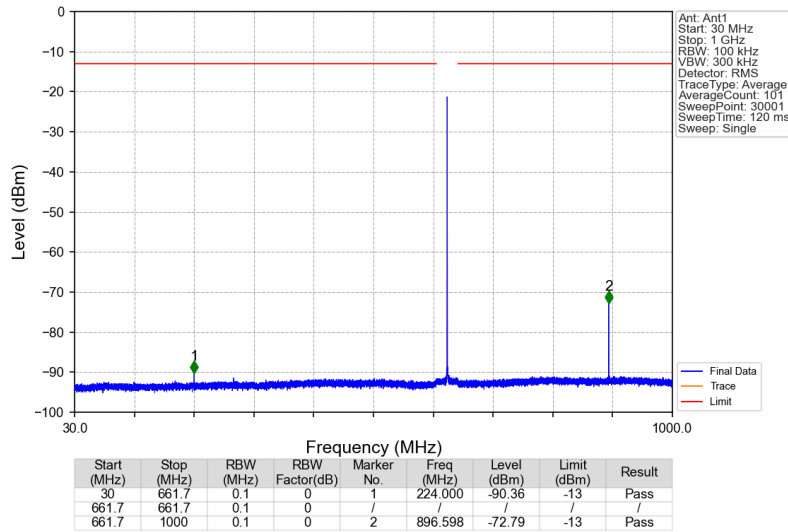


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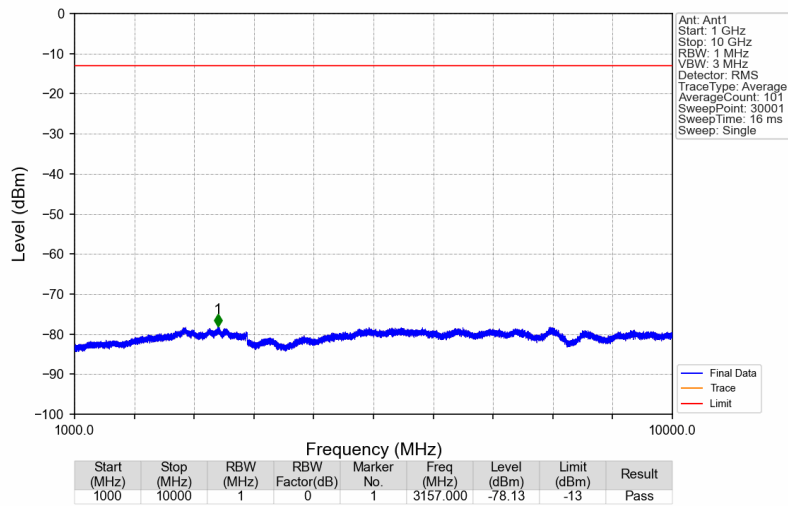
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Band71_634.5MHz_GMSK_SISO_Ant1_NTNV



Band71_634.5MHz_GMSK_SISO_Ant1_NTNV

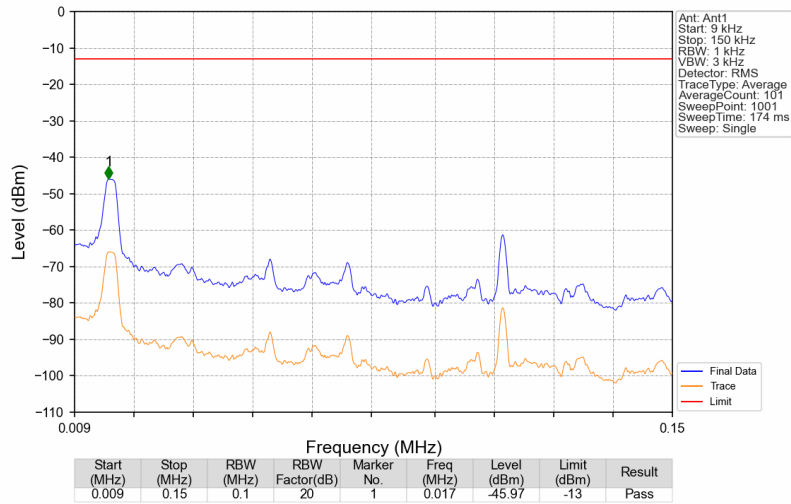


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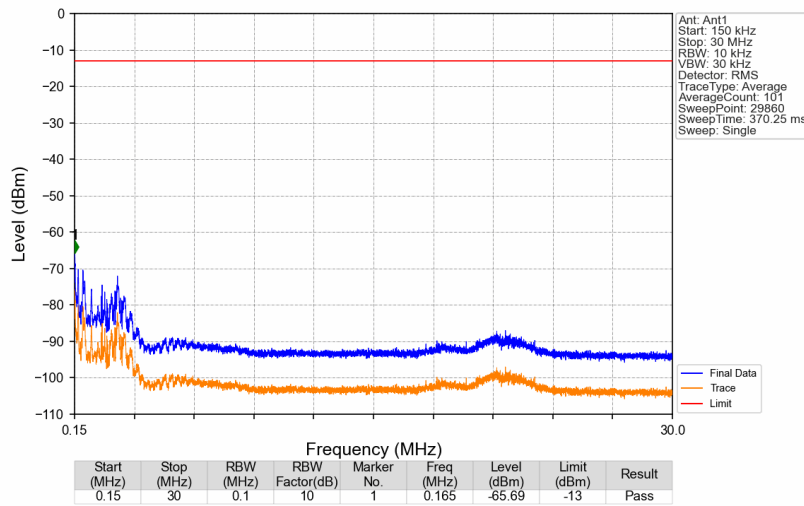
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Band71_651.9MHz_GMSK_SISO_Ant1_NTNV



Band71_651.9MHz_GMSK_SISO_Ant1_NTNV

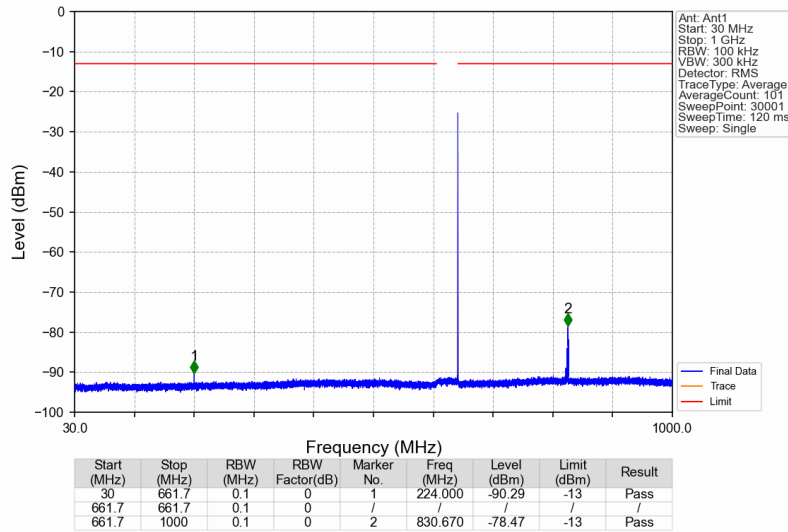


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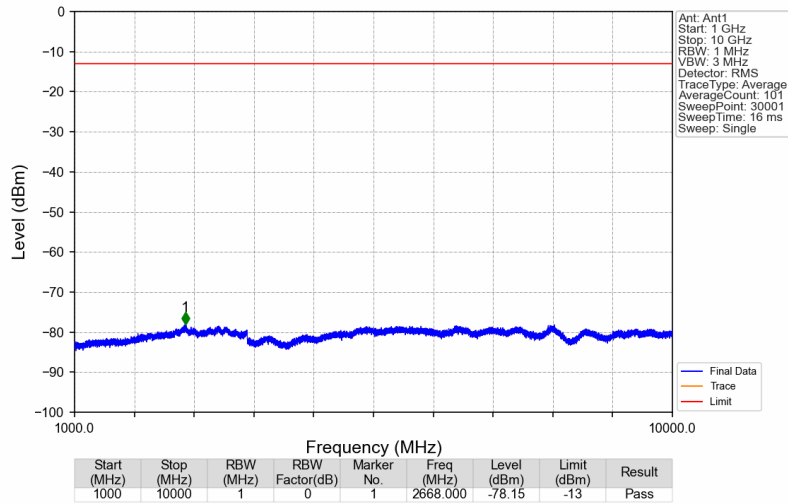
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Band71_651.9MHz_GMSK_SISO_Ant1_NTNV



Band71_651.9MHz_GMSK_SISO_Ant1_NTNV



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7. Frequency stability measurements

7.1 Band71_Ant1

7.1.1 Test Result

Band: 71 / NTNV							
Signal			Temp (°C)	Voltage (VDC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict
Type	Level (dBm)	Frequency (MHz)					
CW	-3.2	617.1	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
			-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	
		634.5	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
			-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	
		651.9	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
			-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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