

Appendix K for KSCR2206001043AT-3700MHz-3800MHz

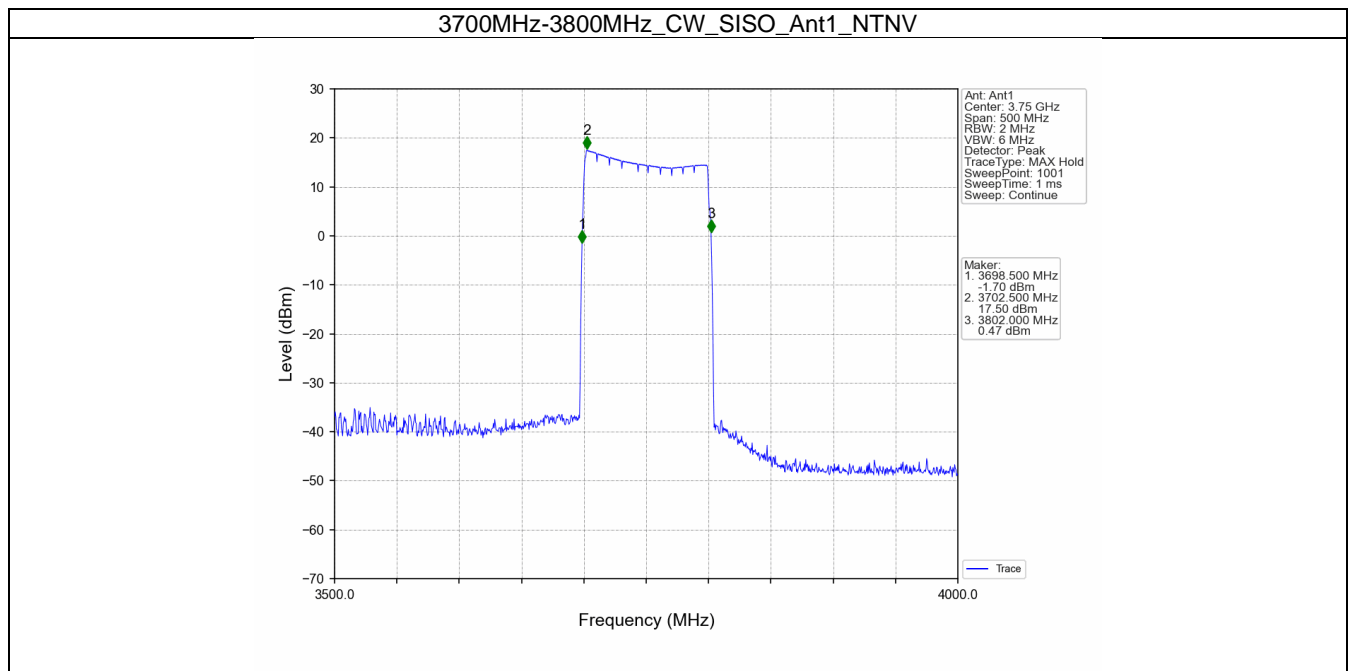
1. Out of band rejection

1.1 3700MHz-3800MHz

1.1.1 Test Result

3700MHz-3800MHz / NTV							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	3500 - 4000	SISO	1	3702.500	3698.500	3802.000	Pass

1.1.2 Test Graph



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## 2. AGC threshold

### 2.1 3700MHz-3800MHz

#### 2.1.1 Test Result

3700MHz-3800MHz / NTNV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
AWGN	3702.5	SISO	1	-0.02	Pass
GMSK	3702.5	SISO	1	0.98	Pass

## 3. Input-versus-output signal comparison

### 3.1 3700MHz-3800MHz\_OBW

#### 3.1.1 Test Result

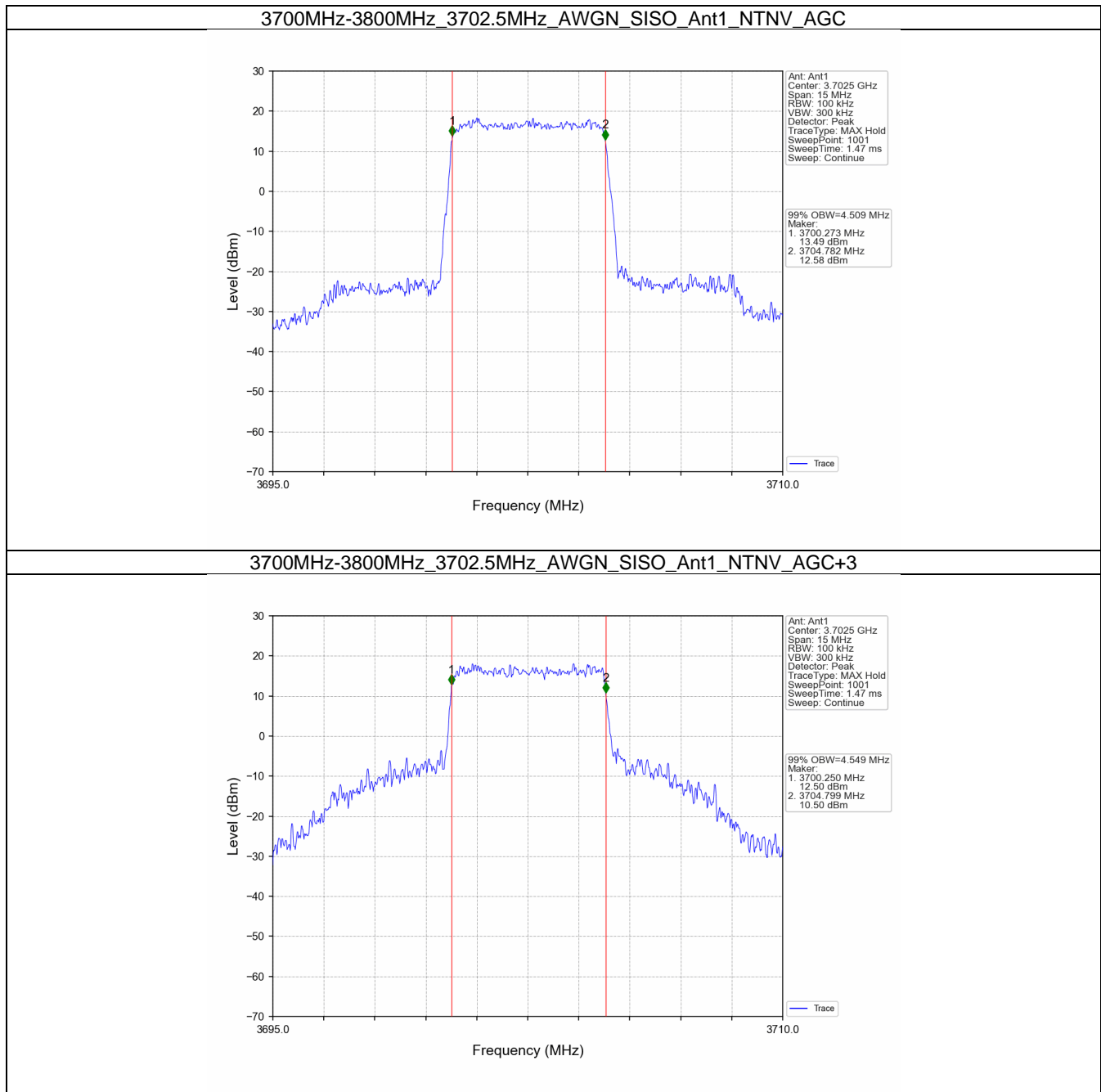
3700MHz-3800MHz / NTNV							
Type	Signal		TX Type	ANT	99% OBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	2.98	3702.5	SISO	1	4.509	4.533	Pass
	-0.02	3702.5	SISO	1	4.549	4.532	Pass
GMSK	3.98	3702.5	SISO	1	0.243	0.245	Pass
	0.98	3702.5	SISO	1	0.244	0.244	Pass



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3.1.2 Test Graph

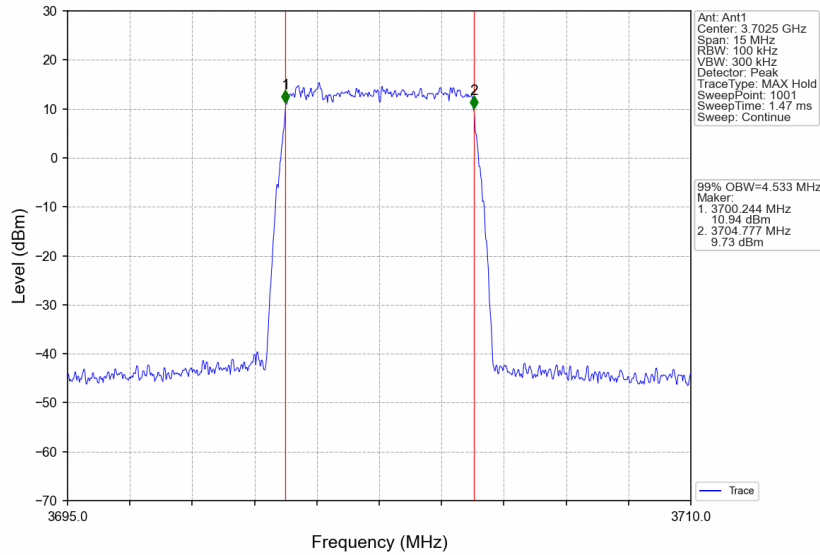


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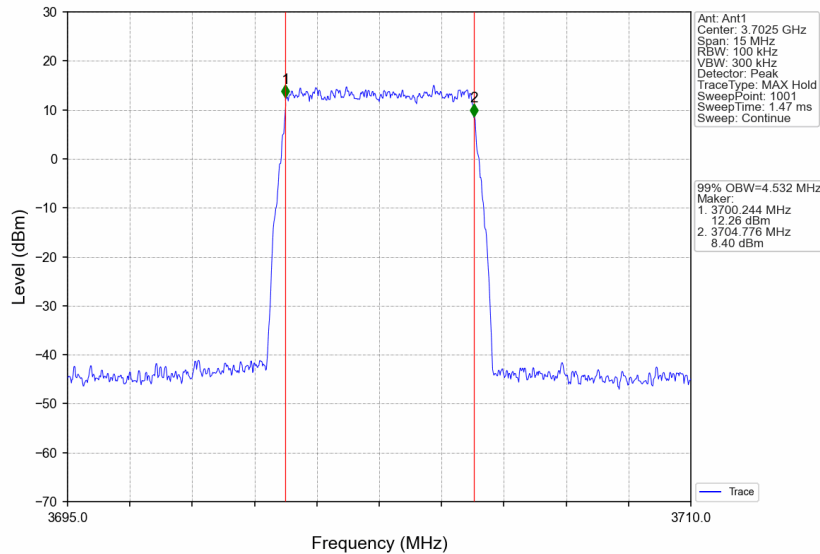
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3700MHz-3800MHz\_3702.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3



3700MHz-3800MHz\_3702.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC

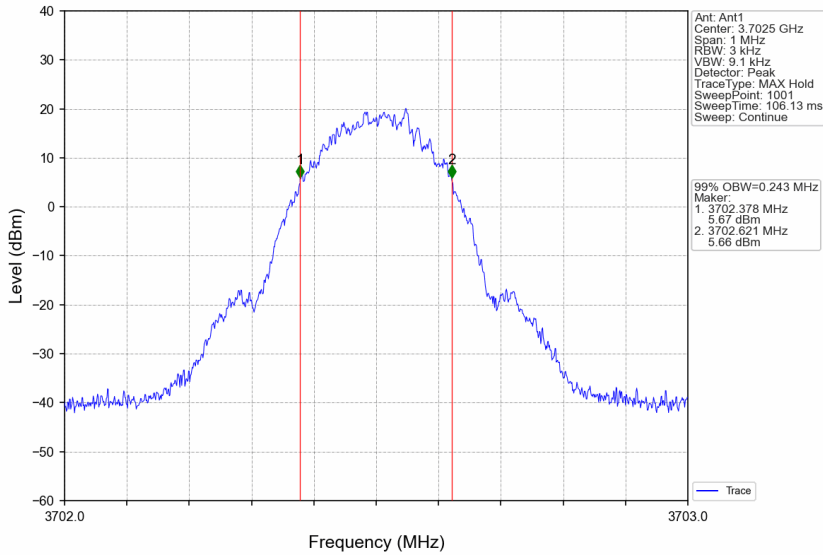


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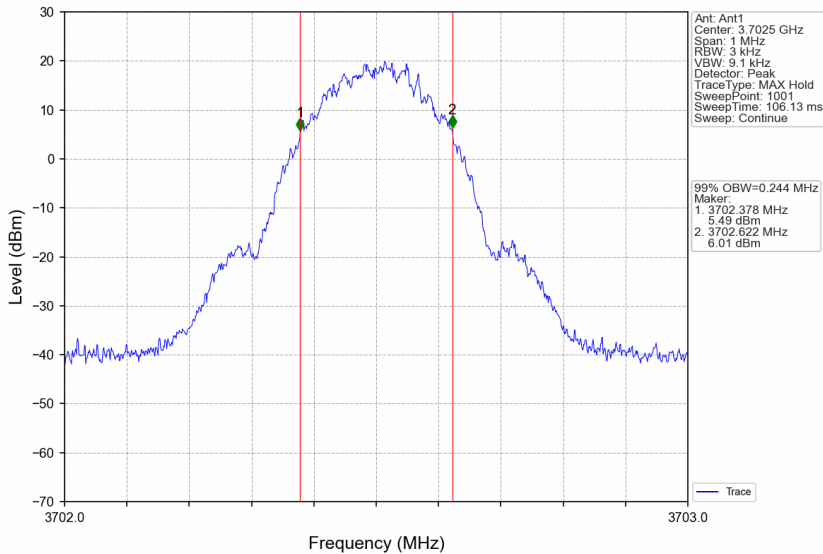
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3700MHz-3800MHz\_3702.5MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



3700MHz-3800MHz\_3702.5MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3

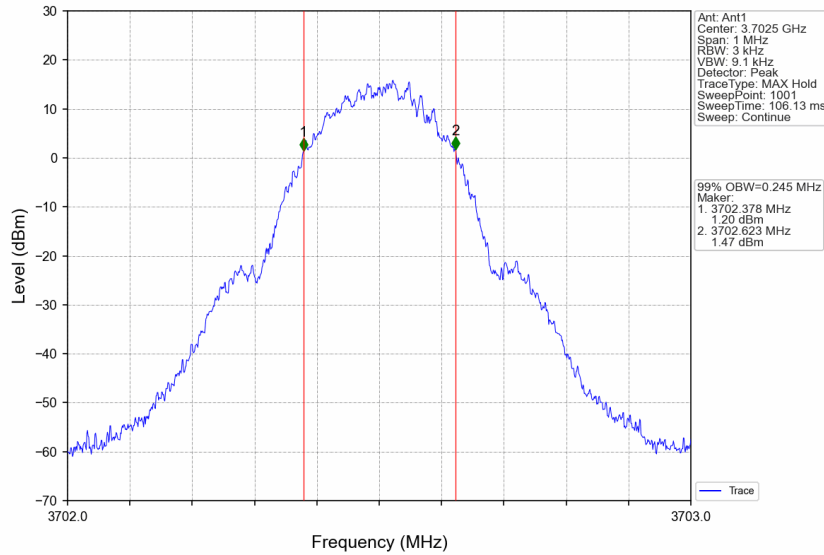


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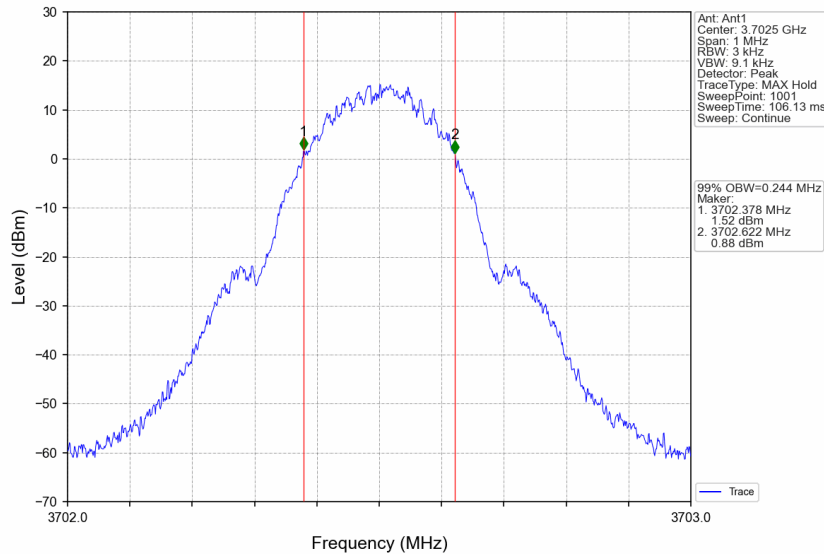
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3700MHz-3800MHz\_3702.5MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3



3700MHz-3800MHz\_3702.5MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



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3.2 3700MHz-3800MHz\_EBW

3.2.1 Test Result

3700MHz-3800MHz / NTV							
Signal			TX Type	ANT	26dB EBW (MHz)		Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	2.98	3702.5	SISO	1	5.115	5.041	Pass
	-0.02	3702.5	SISO	1	4.960	5.029	Pass
GMSK	3.98	3702.5	SISO	1	0.314	0.316	Pass
	0.98	3702.5	SISO	1	0.314	0.312	Pass

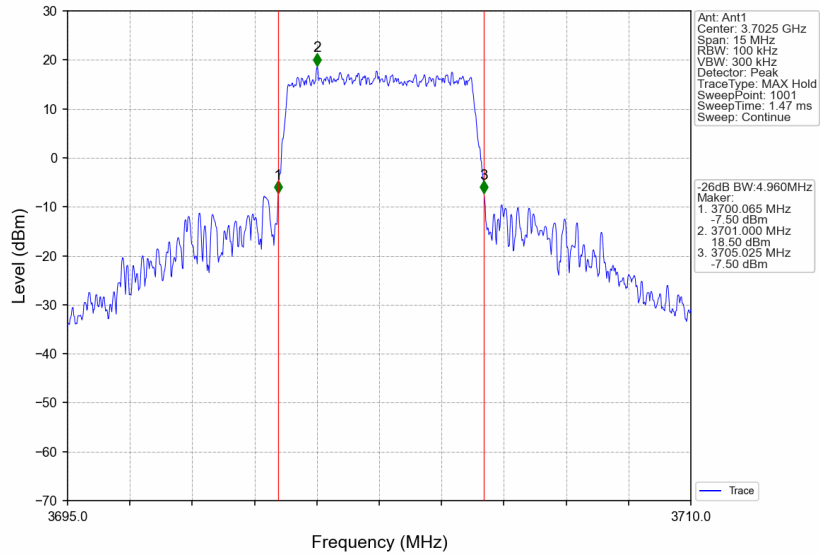
3.2.2 Test Graph



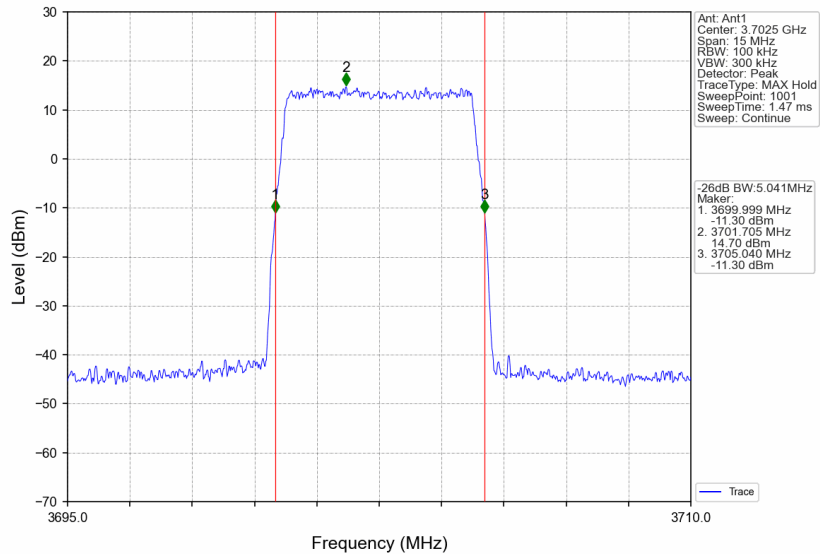
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3700MHz-3800MHz\_3702.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3



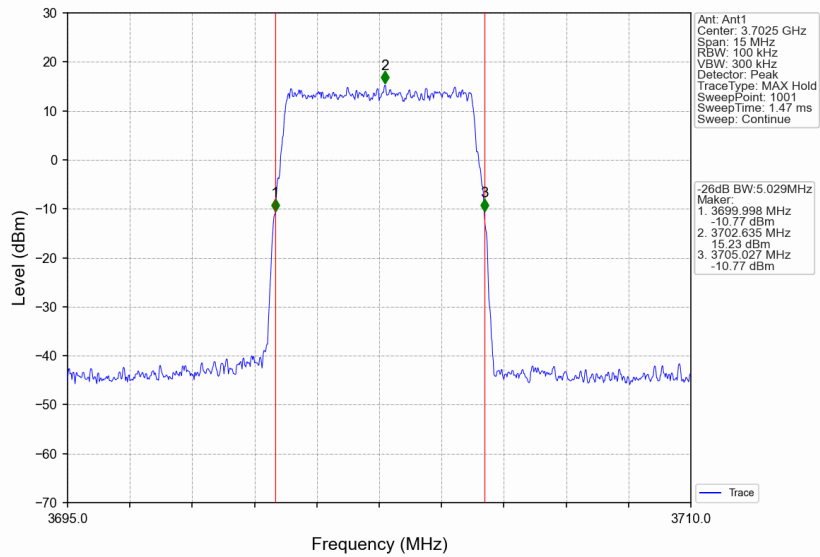
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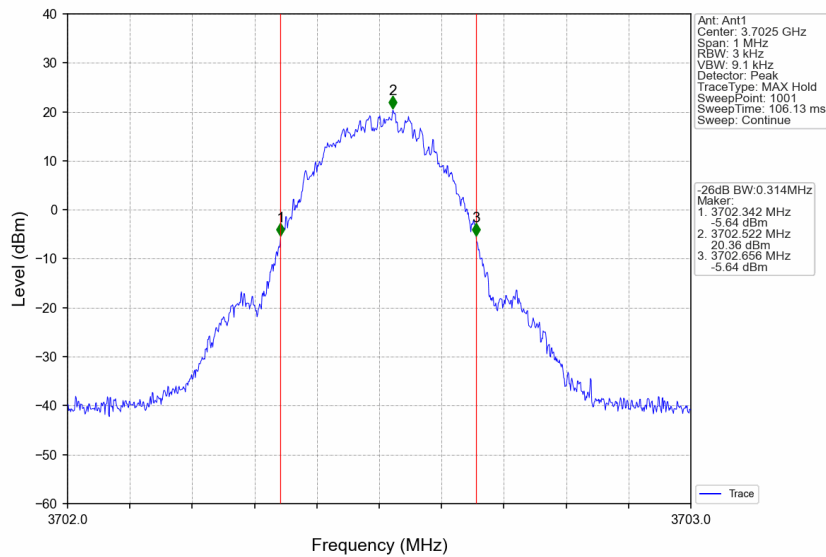
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3700MHz-3800MHz\_3702.5MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC

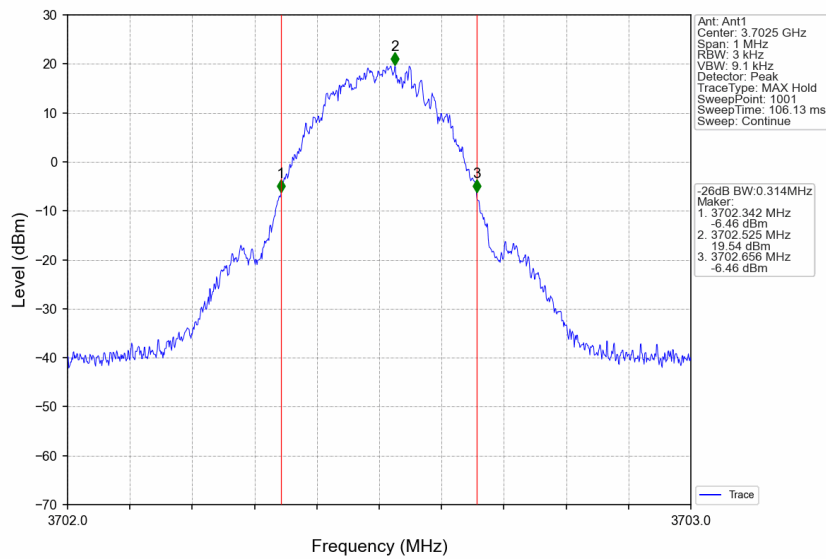


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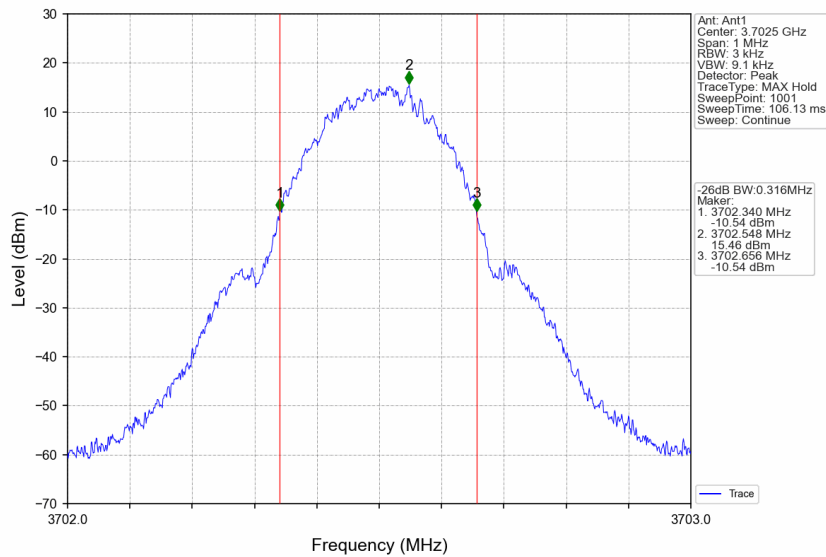
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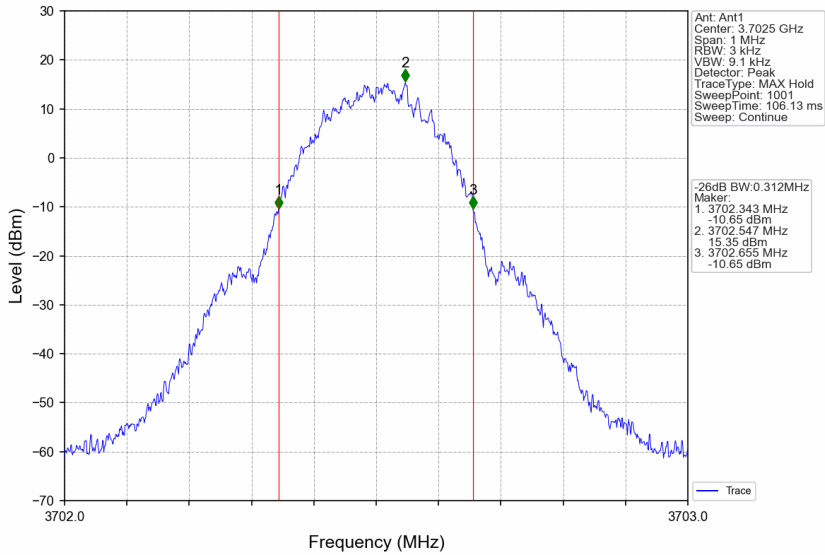


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#### 4. Input/output power and amplifier/booster gain

##### 4.1 3700MHz-3800MHz\_EIRP

##### 4.1.1 Test Result

3700MHz-3800MHz / 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												
3700MHz-3800MHz	3702.5	AWGN	Pre-AGC	-0.02	17.67	--	--	--	17.67	24.88	27.88	25.21
			3dB Above AGC	2.98	17.65	--	--	--	17.65	24.92	27.92	/
	3702.5	GMSK	Pre-AGC	0.98	17.66	--	--	--	17.66	25.03	28.03	24.18
			3dB Above AGC	3.98	17.76	--	--	--	17.76	25.01	28.01	/

3700MHz-3800MHz / 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											
3700MHz-3800MHz	3702.5	AWGN	Pre-AGC	-0.02	17.67	--	--	--	20.68	23.69	/
			3dB Above AGC	2.98	17.65	--	--	--	20.66	23.67	/
	3702.5	GMSK	Pre-AGC	0.98	17.66	--	--	--	20.67	23.68	/
			3dB Above AGC	3.98	17.76	--	--	--	20.77	23.78	/

3700MHz-3800MHz / 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											
3700MHz-3800MHz	3702.5	AWGN	Pre-AGC	-0.02	27.89		30.90		30.89	33.90	/
			3dB Above AGC	2.98	27.93		30.94		30.93	33.94	/
	3702.5	GMSK	Pre-AGC	0.98	28.04		31.05		31.04	34.05	/
			3dB Above AGC	3.98	28.02		31.03		31.02	34.03	/

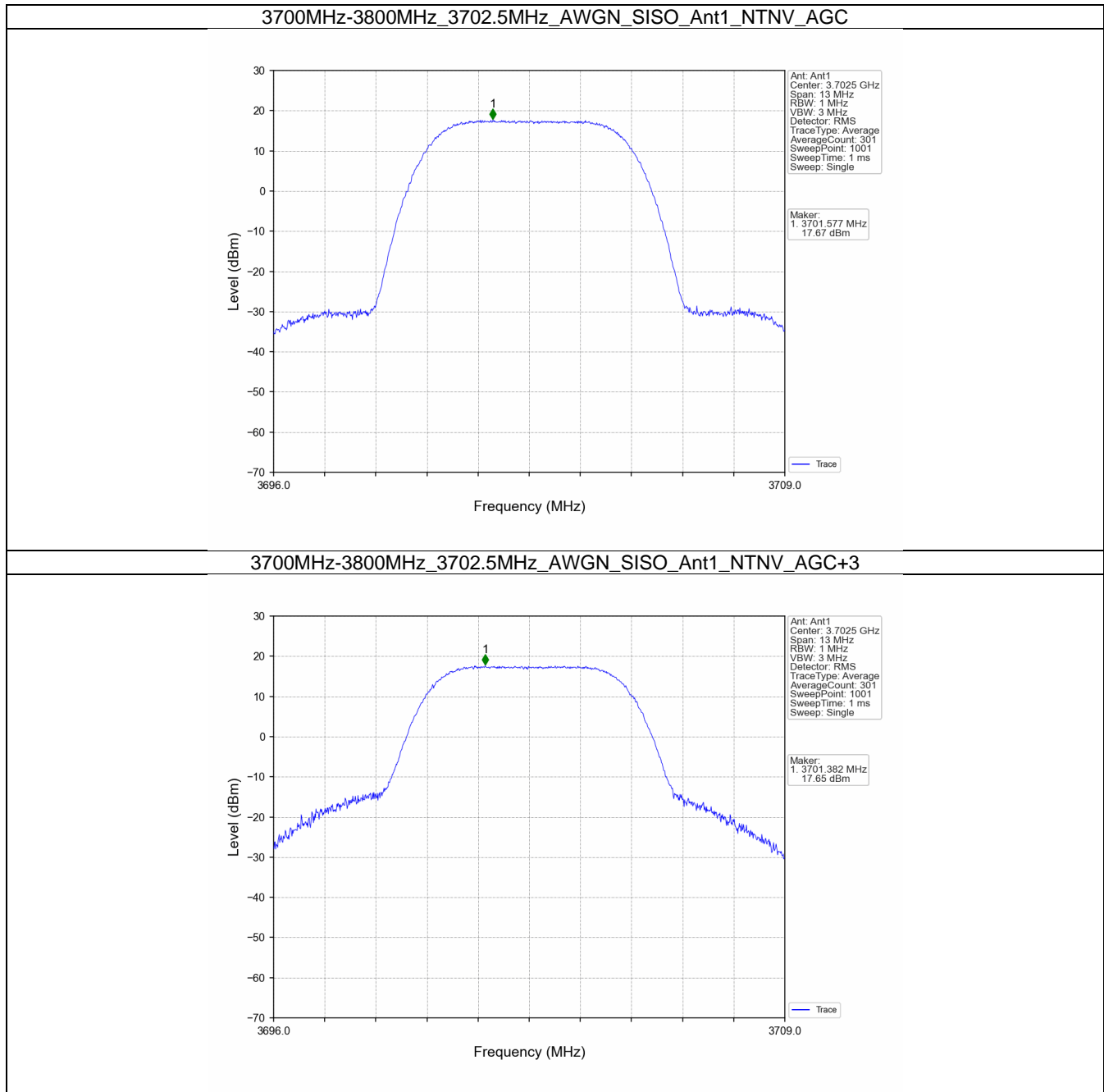
Remark:

- 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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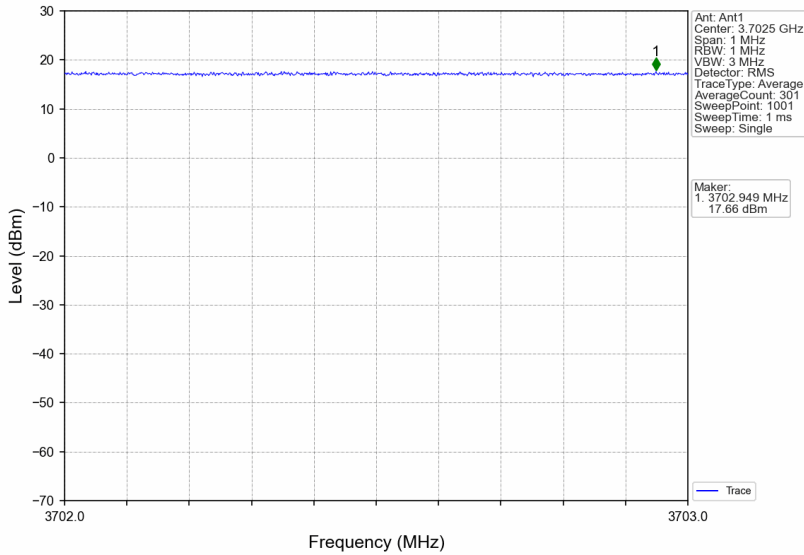
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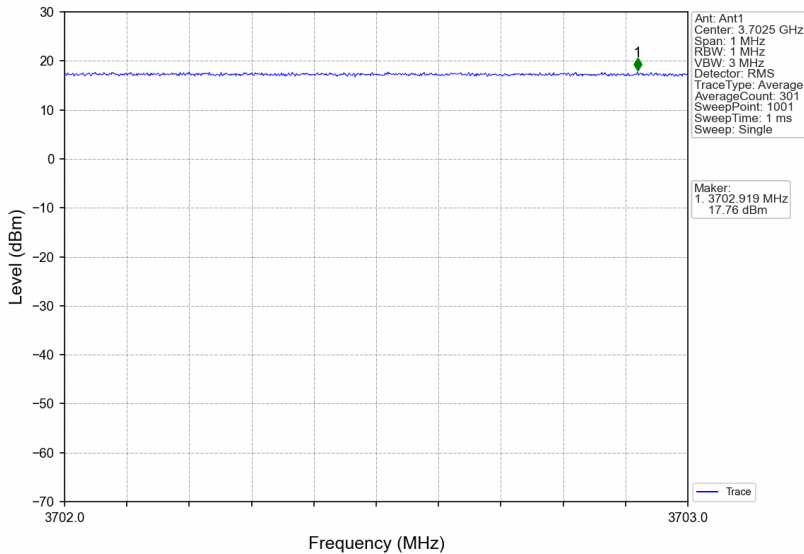
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3700MHz-3800MHz\_3702.5MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



3700MHz-3800MHz\_3702.5MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3



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4.2 3700MHz-3800MHz\_PAPR

4.2.1 Test Result

3700MHz-3800MHz / NTNv							
Type	Signal		TX Type	ANT	PAPR (dB)		Verdict
	Level (dBm)	Frequency (MHz)			Result	Limit	
AWGN	-0.02	3702.5	SISO	1	8.24	<=13	Pass
	2.98	3702.5	SISO	1	8.17	<=13	Pass
GMSK	0.98	3702.5	SISO	1	0.40	<=13	Pass
	3.98	3702.5	SISO	1	0.32	<=13	Pass

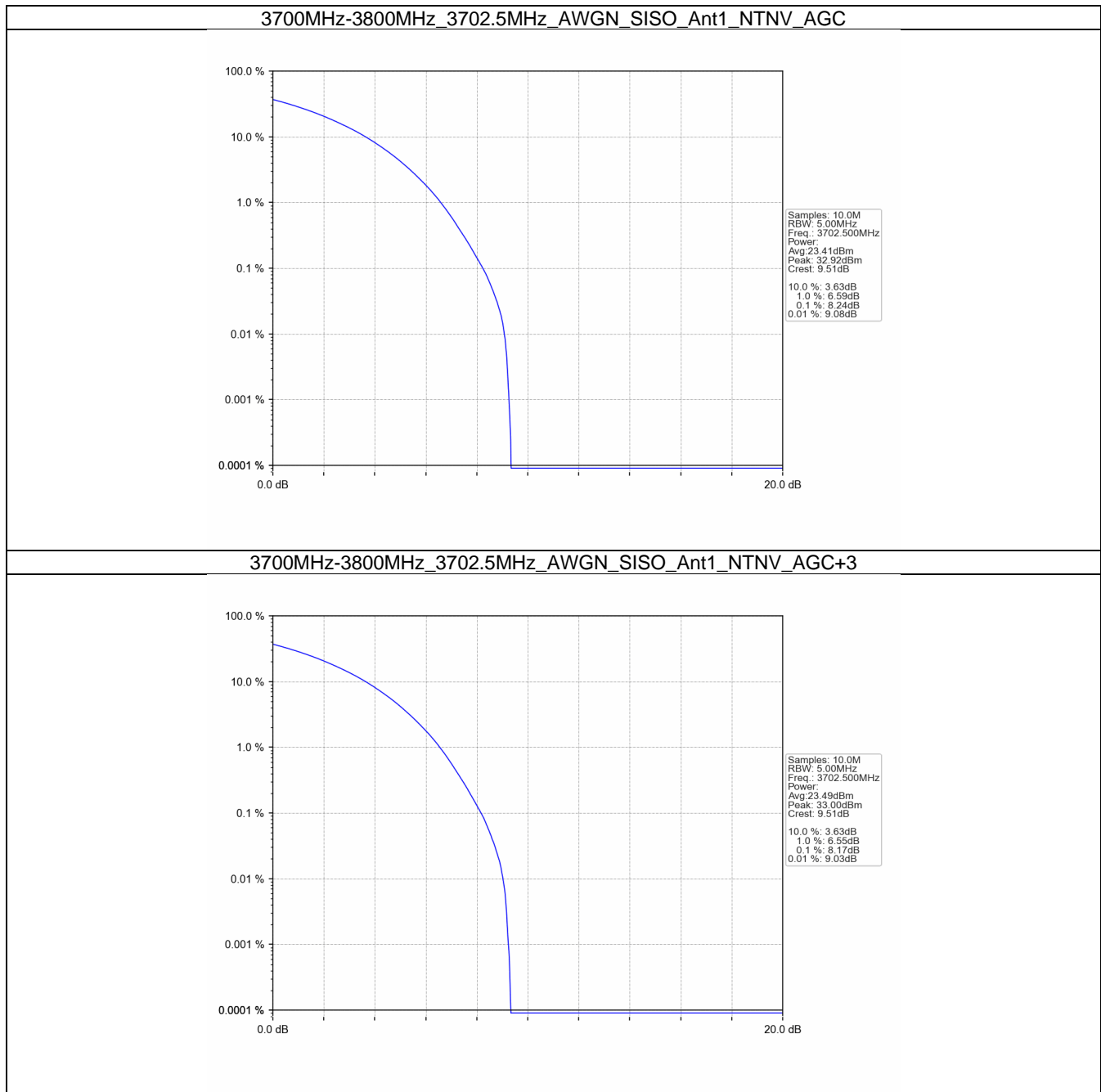


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4.2.2 Test Graph

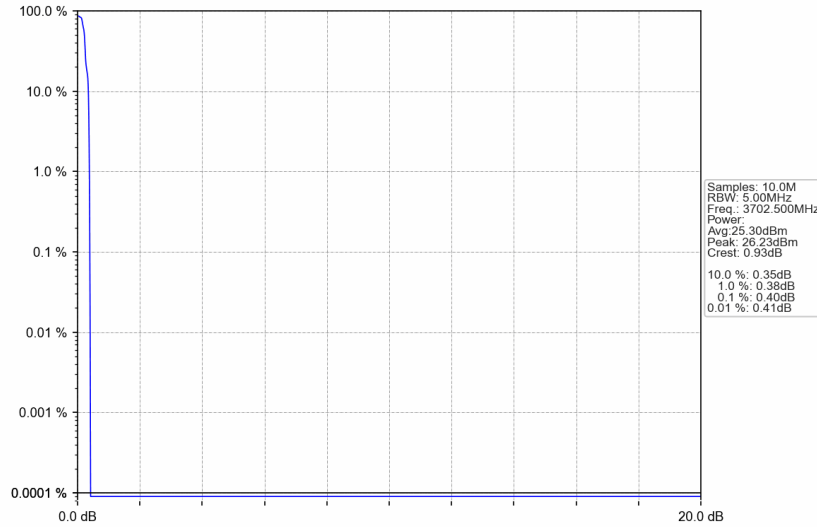


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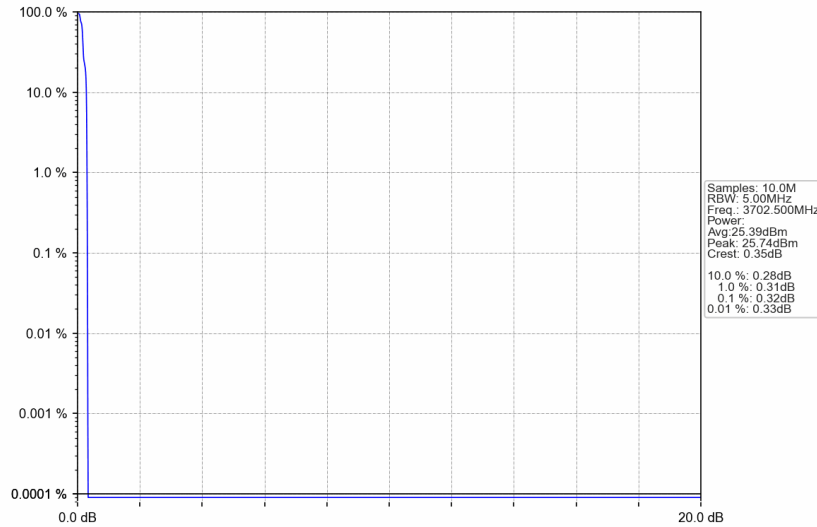
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3700MHz-3800MHz\_3702.5MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



3700MHz-3800MHz\_3702.5MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3



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

5.1 3700MHz-3800MHz

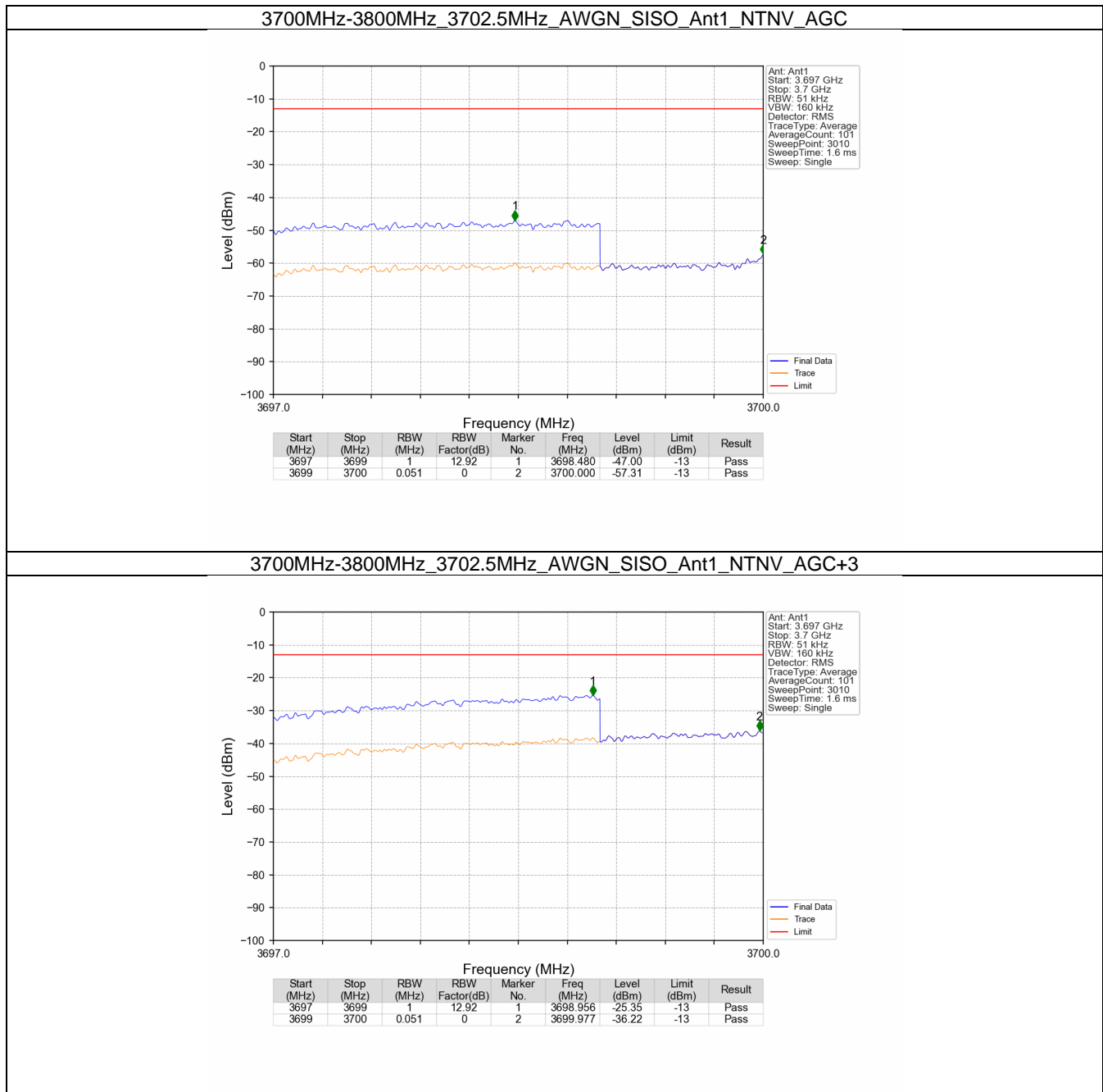
5.1.1 Test Result

3700MHz-3800MHz / NTNV									
Input	Type	Signal		Channel	TX Type	ANT	OOB (dBm)		Verdict
		Level (dBm)	Frequency (MHz)				Result	Limit	
Two	AWGN	-0.02	3702.5	LCH	SISO	1	-47.00	Refer To Test Graph	Pass
		2.98	3702.5	LCH	SISO	1	-25.35	Refer To Test Graph	Pass
One	AWGN	-0.02	3702.5	LCH	SISO	1	-30.09	Refer To Test Graph	Pass
		2.98	3702.5	LCH	SISO	1	-27.84	Refer To Test Graph	Pass
Two	AWGN	-0.02	3797.5	HCH	SISO	1	-49.51	Refer To Test Graph	Pass
		2.98	3797.5	HCH	SISO	1	-33.45	Refer To Test Graph	Pass
One	AWGN	-0.02	3797.5	HCH	SISO	1	-26.75	Refer To Test Graph	Pass
		2.98	3797.5	HCH	SISO	1	-27.31	Refer To Test Graph	Pass
Two	GMSK	0.98	3700.1	LCH	SISO	1	-29.16	Refer To Test Graph	Pass
		3.98	3700.1	LCH	SISO	1	-29.38	Refer To Test Graph	Pass
One	GMSK	0.98	3700.1	LCH	SISO	1	-29.23	Refer To Test Graph	Pass
		3.98	3700.1	LCH	SISO	1	-29.52	Refer To Test Graph	Pass
Two	GMSK	0.98	3799.9	HCH	SISO	1	-25.91	Refer To Test Graph	Pass
		3.98	3799.9	HCH	SISO	1	-25.67	Refer To Test Graph	Pass
One	GMSK	0.98	3799.9	HCH	SISO	1	-24.90	Refer To Test Graph	Pass
		3.98	3799.9	HCH	SISO	1	-25.78	Refer To Test Graph	Pass



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5.1.2 Test Graph



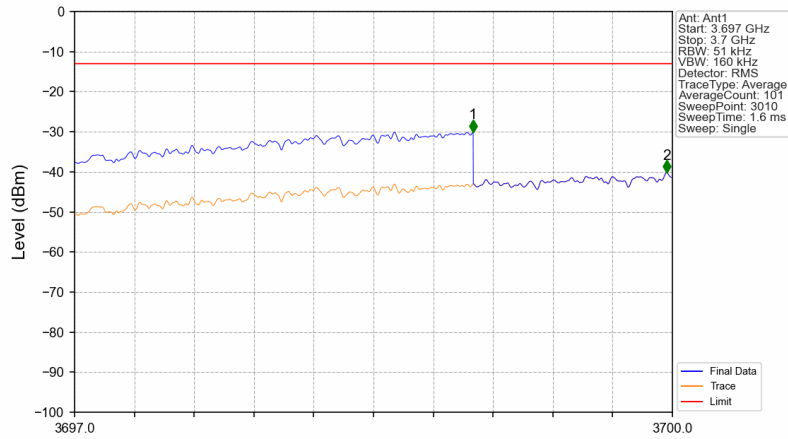
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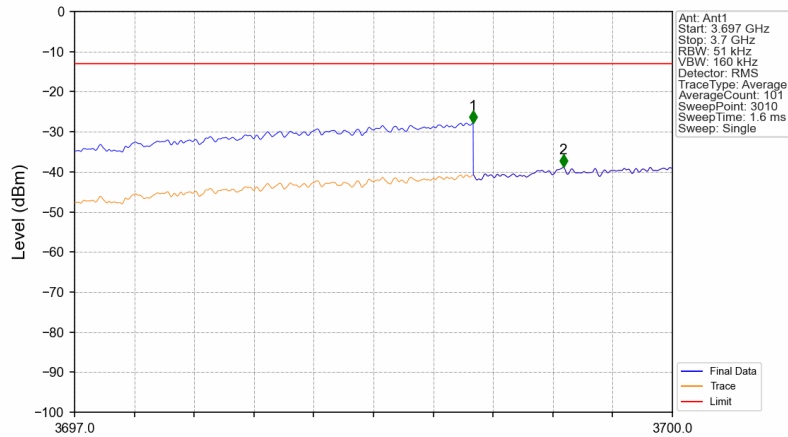
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### 3700MHz-3800MHz\_3702.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3697	3699	1	12.92	1	3699.000	-30.09	-13	Pass
3699	3700	0.051	0	2	3699.971	-40.19	-13	Pass

### 3700MHz-3800MHz\_3702.5MHz\_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	3698.999	-27.84	-13	Pass
3699	3700	0.051	0	2	3699.453	-38.86	-13	Pass

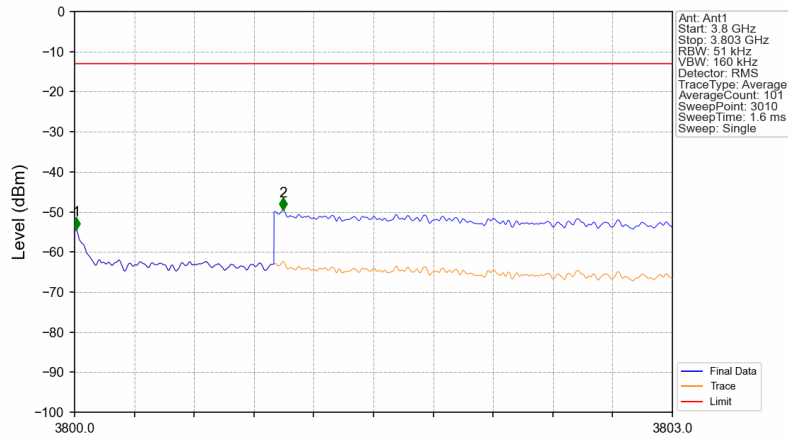


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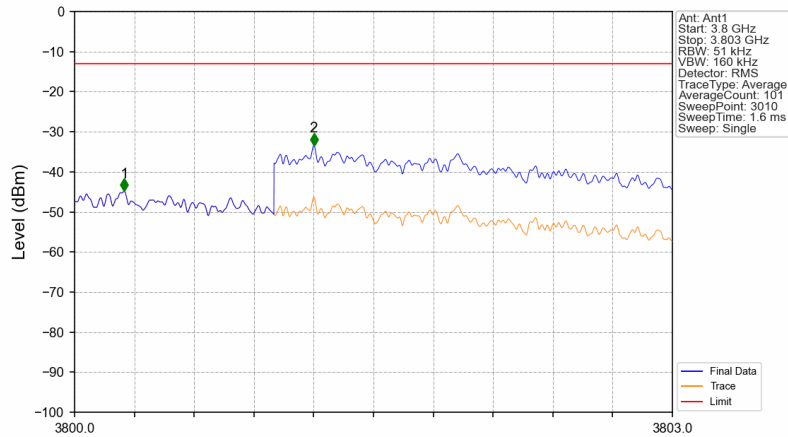
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Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3800	3801	0.051	0	1	3800.008	-54.43	-13	Pass
3801	3803	1	12.92	2	3801.047	-49.51	-13	Pass

### 3700MHz-3800MHz\_3797.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3800	3801	0.051	0	1	3800.249	-44.80	-13	Pass
3801	3803	1	12.92	2	3801.200	-33.45	-13	Pass

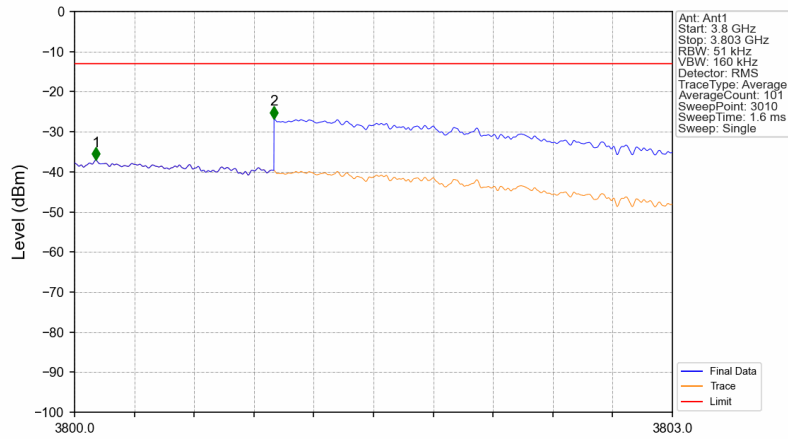


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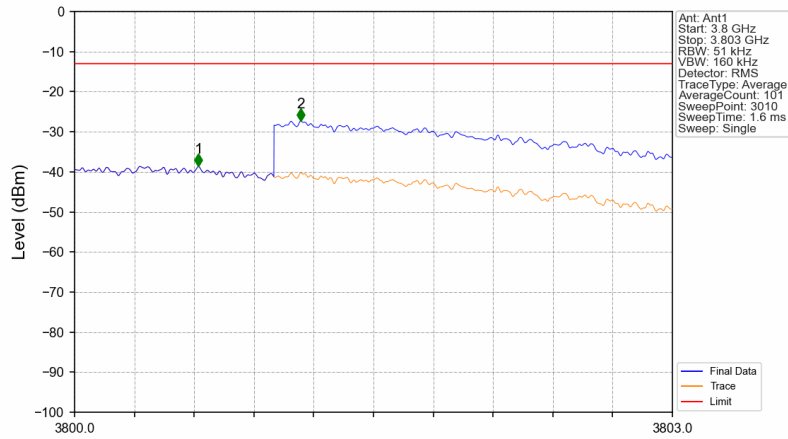
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### 3700MHz-3800MHz\_3797.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3800	3801	0.051	0	1	3800.107	-37.09	-13	Pass
3801	3803	1	12.92	2	3801.001	-26.75	-13	Pass

### 3700MHz-3800MHz\_3797.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3800	3801	0.051	0	1	3800.622	-38.66	-13	Pass
3801	3803	1	12.92	2	3801.136	-27.31	-13	Pass

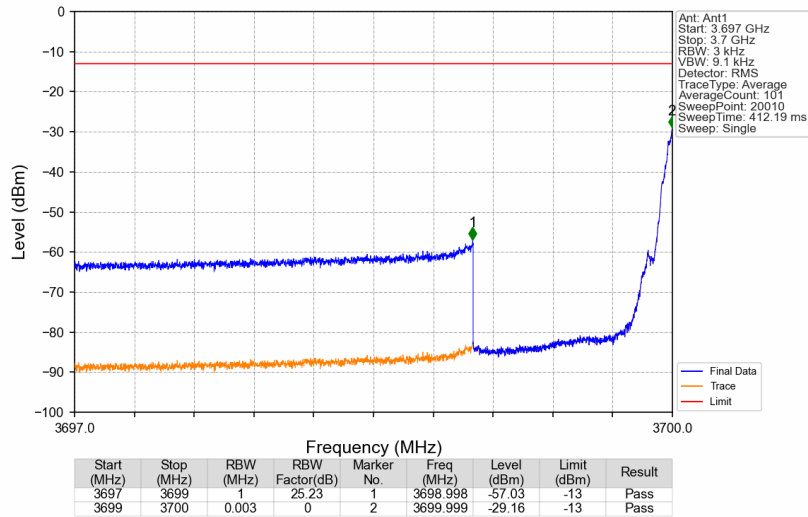


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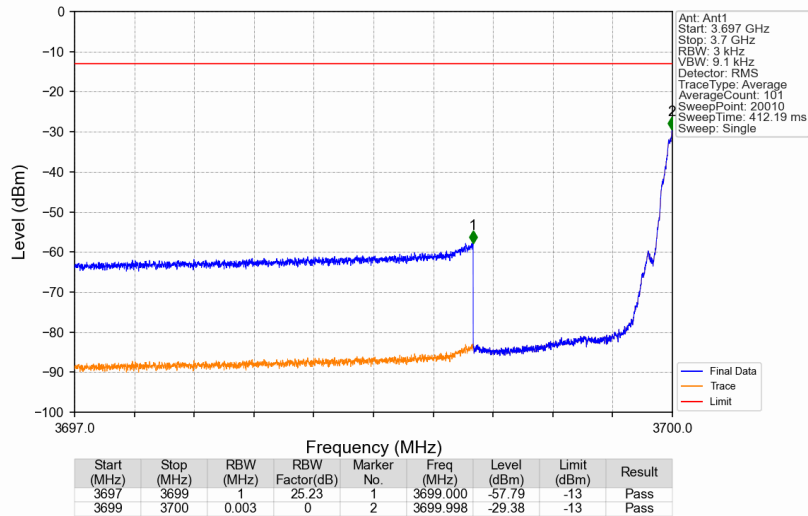
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### 3700MHz-3800MHz\_3700.1MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



### 3700MHz-3800MHz\_3700.1MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3



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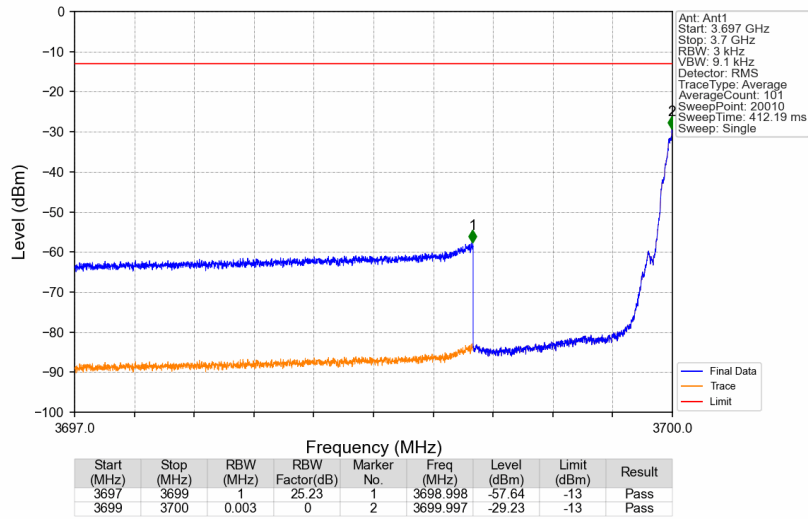
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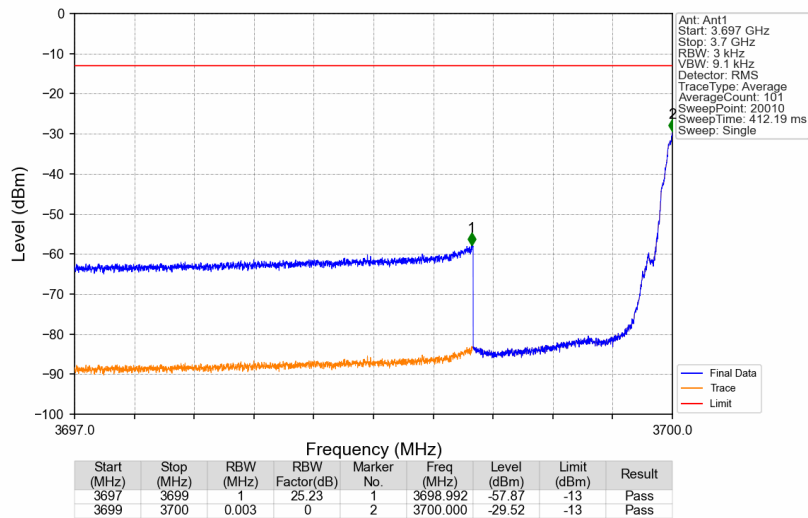
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### 3700MHz-3800MHz\_3700.1MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



### 3700MHz-3800MHz\_3700.1MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3

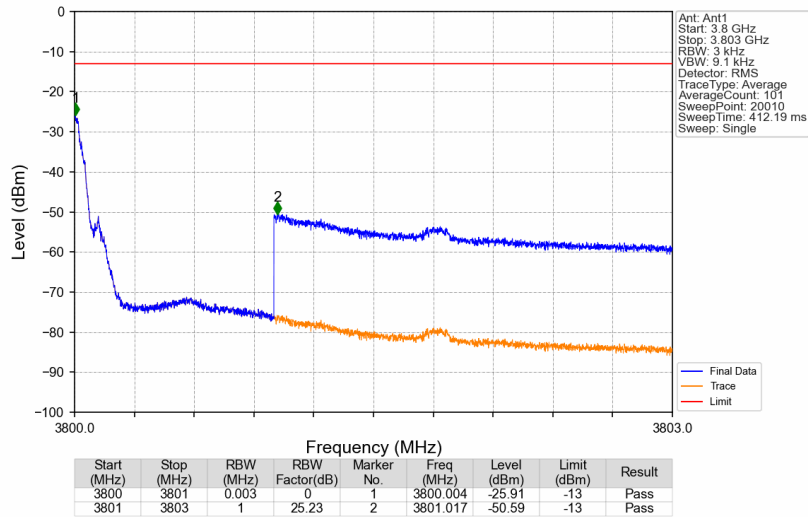


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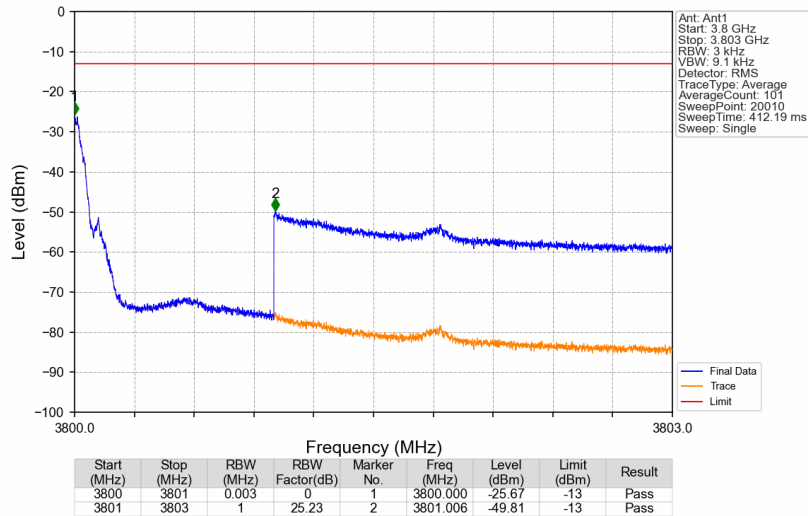
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### 3700MHz-3800MHz\_3799.9MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



### 3700MHz-3800MHz\_3799.9MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3

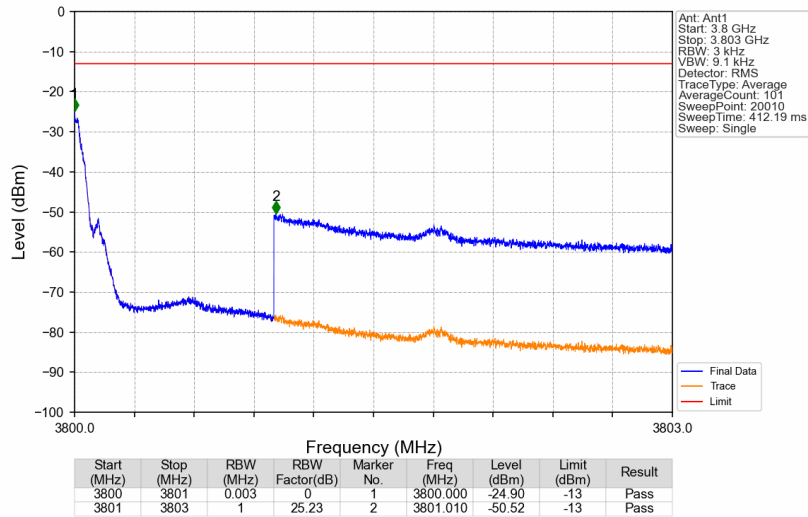


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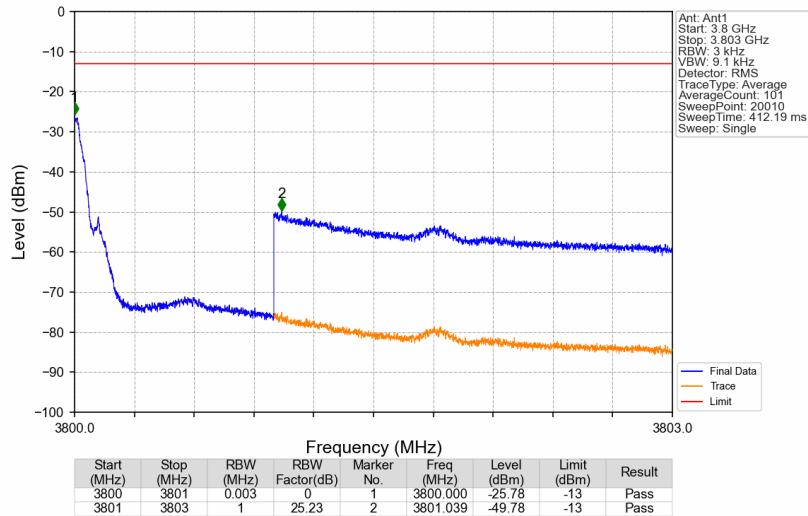
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### 3700MHz-3800MHz\_3799.9MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



### 3700MHz-3800MHz\_3799.9MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3



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## 6. Spurious emissions

### 6.1 3700MHz-3800MHz

#### 6.1.1 Test Result

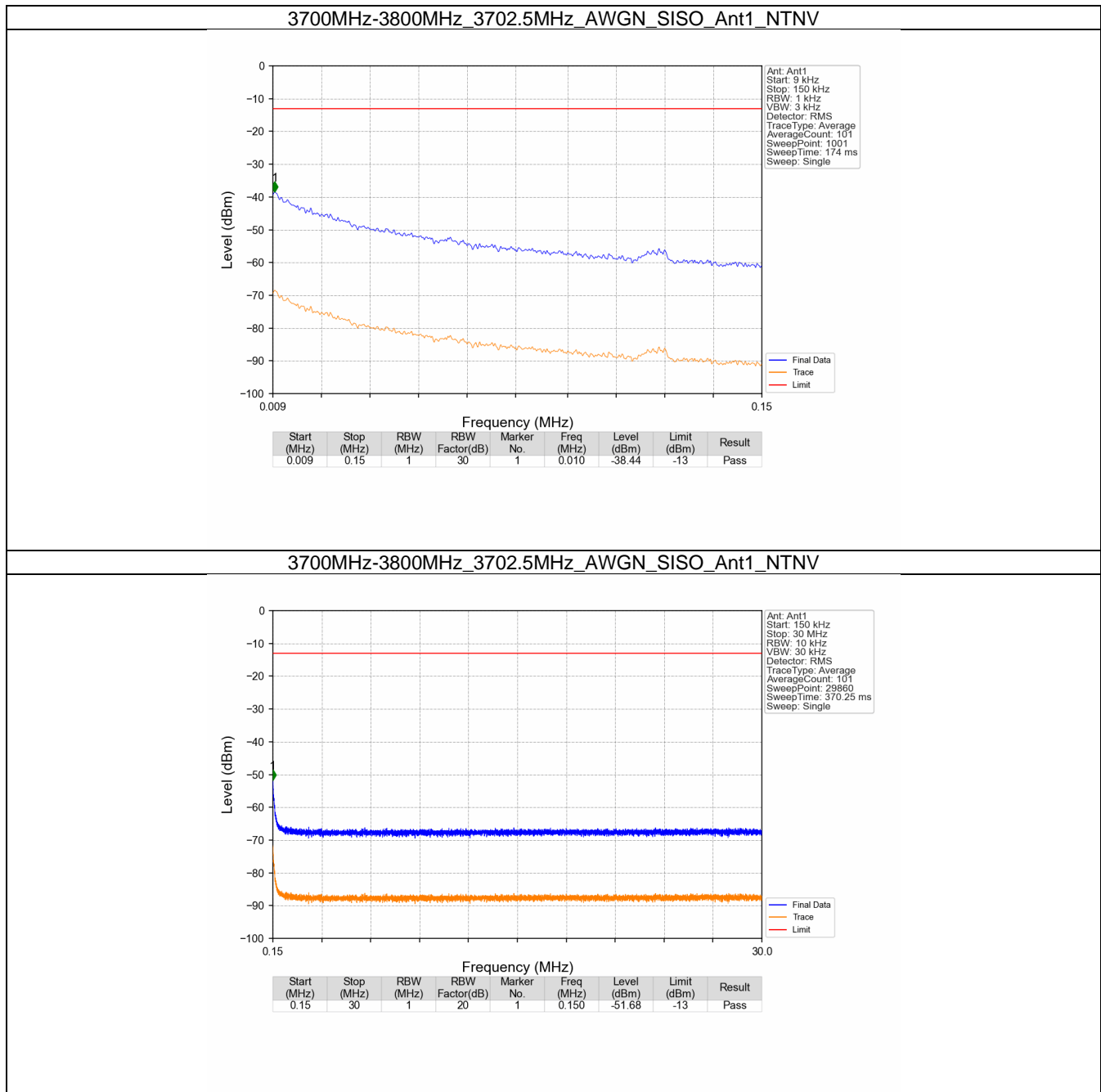
3700MHz-3800MHz / NTNV								
Type	Signal		Channel	TX Type	ANT	SE (dBm)		Verdict
	Level (dBm)	Frequency (MHz)				Result	Limit	
AWGN	-0.02	3702.5	LCH	SISO	1	Refer To Test Graph		Pass
		3750	MCH	SISO	1	Refer To Test Graph		Pass
		3797.5	HCH	SISO	1	Refer To Test Graph		Pass
GMSK	0.98	3700.1	LCH	SISO	1	Refer To Test Graph		Pass
		3750	MCH	SISO	1	Refer To Test Graph		Pass
		3799.9	HCH	SISO	1	Refer To Test Graph		Pass



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6.1.2 Test Graph



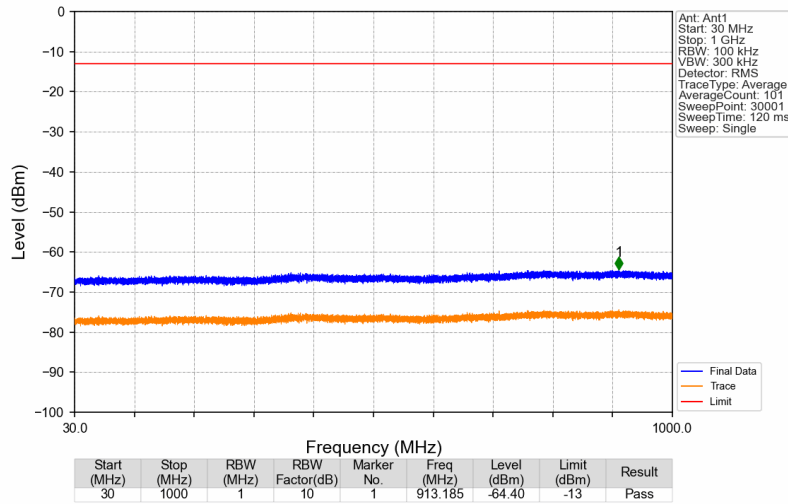
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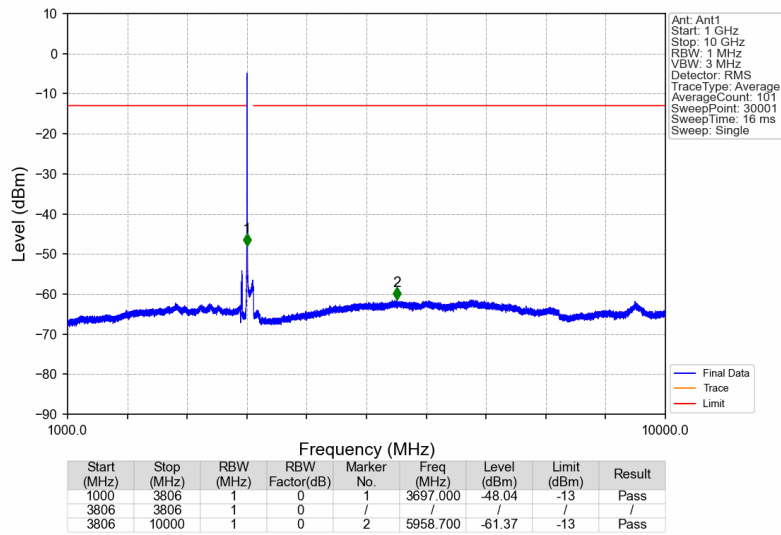
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3700MHz-3800MHz\_3702.5MHz\_AWGN\_SISO\_Ant1\_NTNV



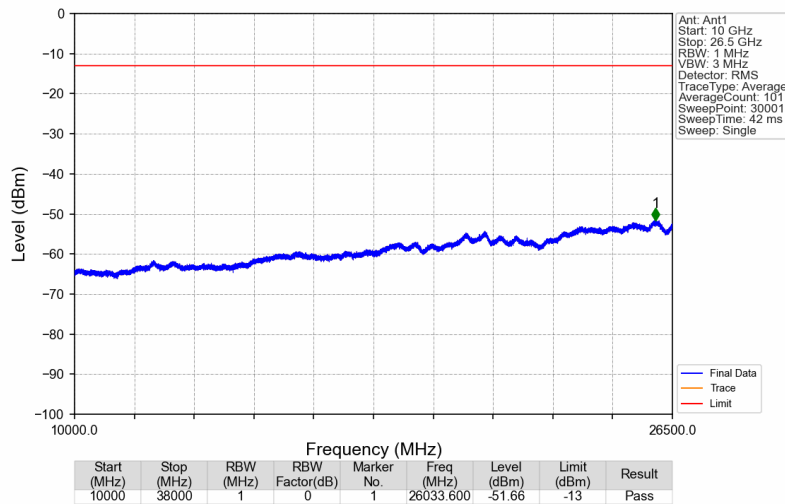
3700MHz-3800MHz\_3702.5MHz\_AWGN\_SISO\_Ant1\_NTNV



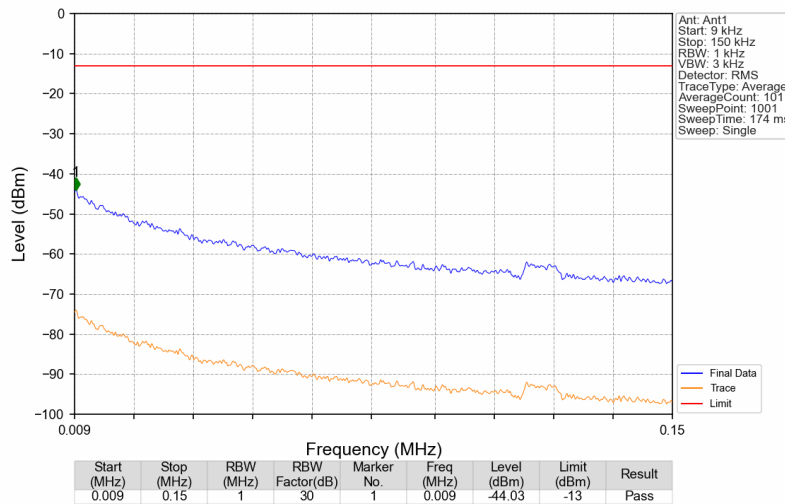
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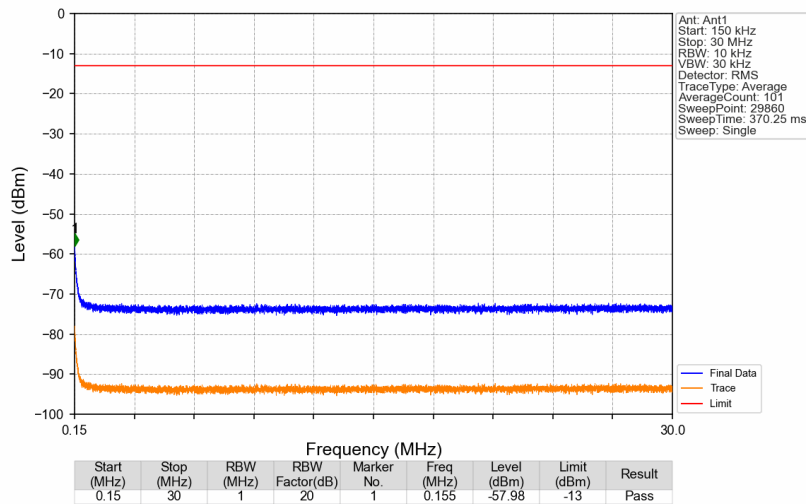
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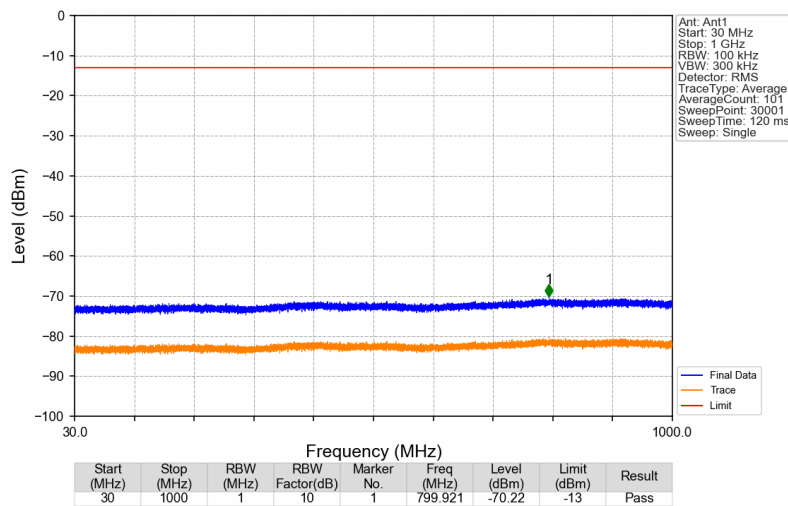
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3700MHz-3800MHz\_3750MHz\_AWGN\_SISO\_Ant1\_NTNV



3700MHz-3800MHz\_3750MHz\_AWGN\_SISO\_Ant1\_NTNV



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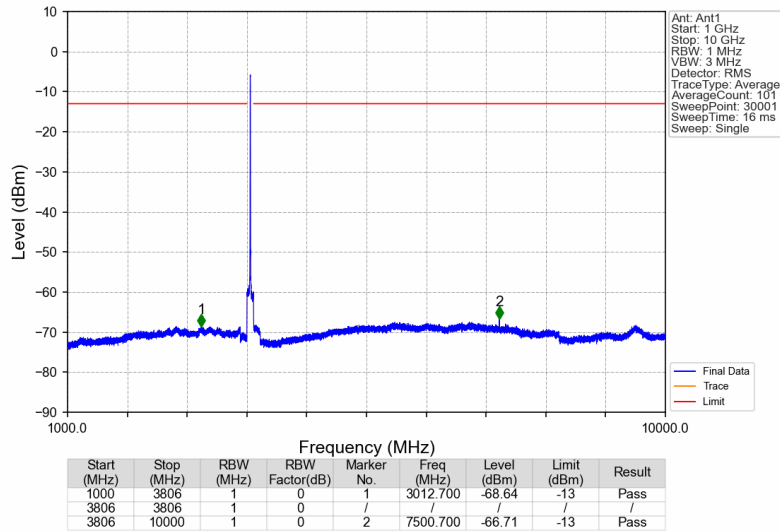
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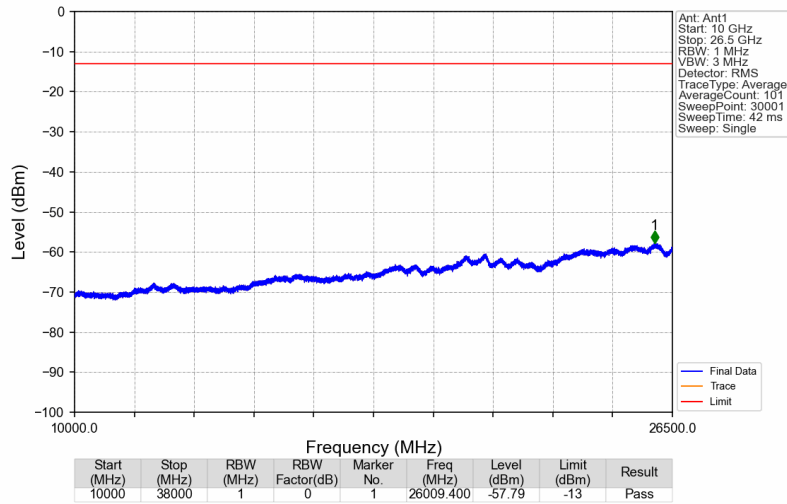
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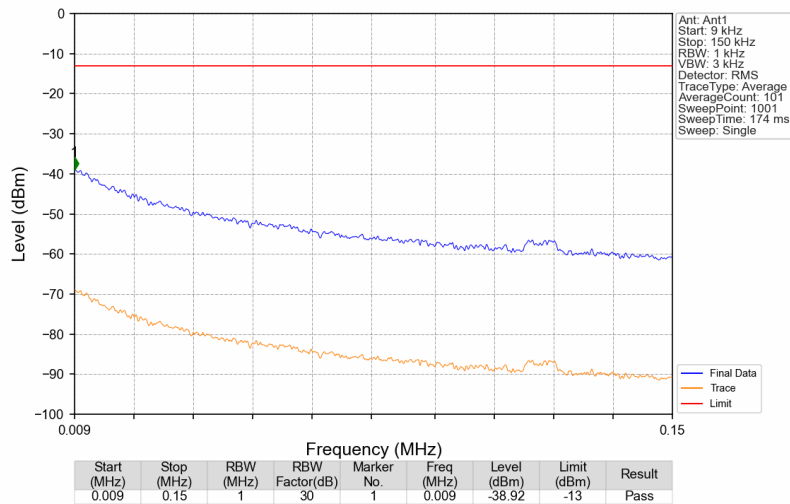
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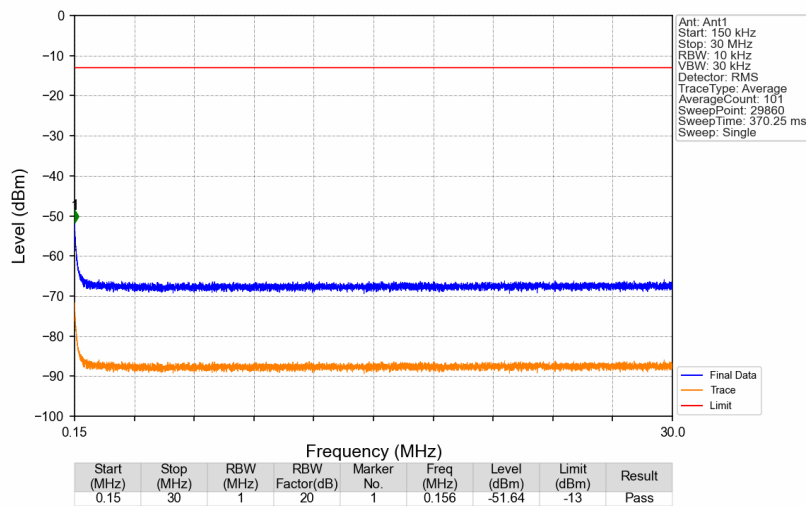
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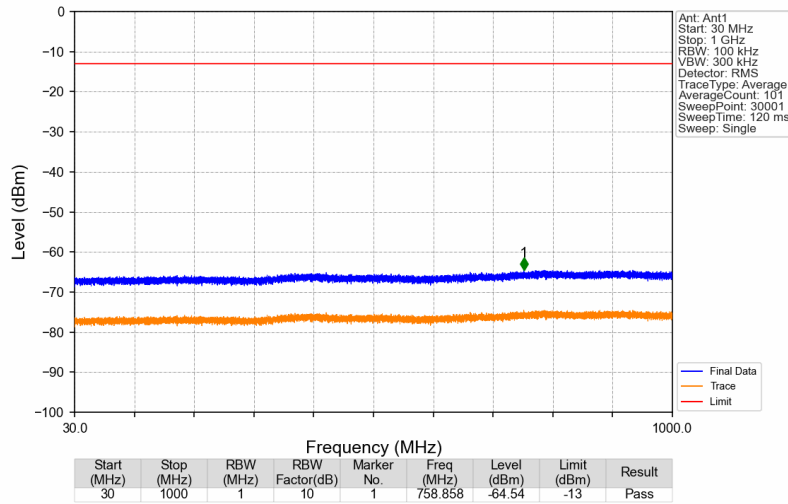
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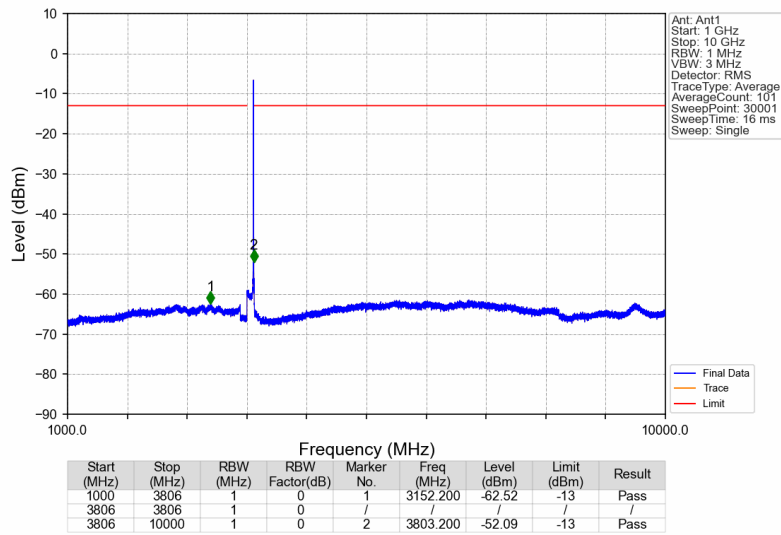
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3700MHz-3800MHz\_3797.5MHz\_AWGN\_SISO\_Ant1\_NTNV



3700MHz-3800MHz\_3797.5MHz\_AWGN\_SISO\_Ant1\_NTNV

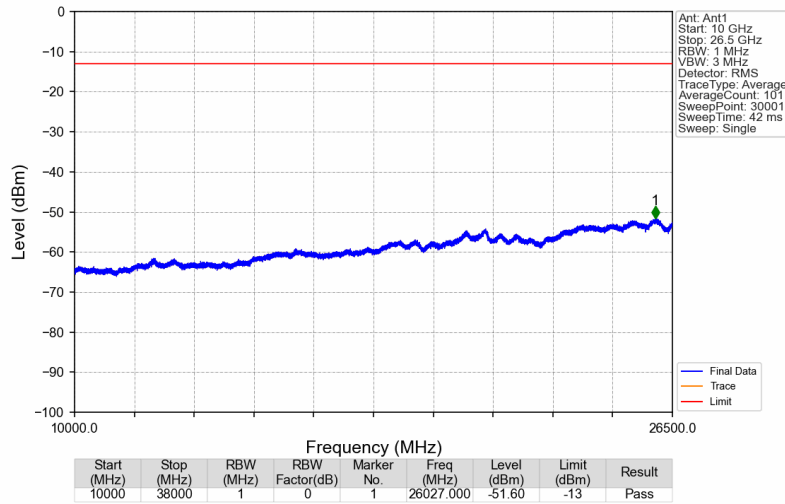


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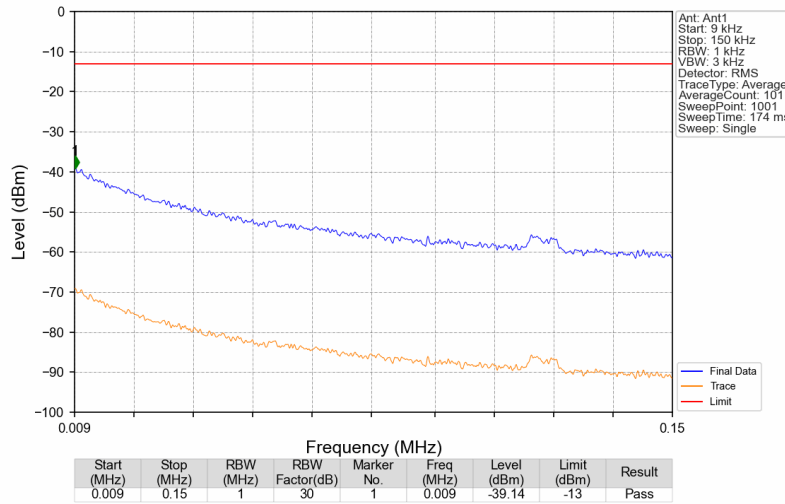
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3700MHz-3800MHz\_3797.5MHz\_AWGN\_SISO\_Ant1\_NTNV



3700MHz-3800MHz\_3700.1MHz\_GMSK\_SISO\_Ant1\_NTNV

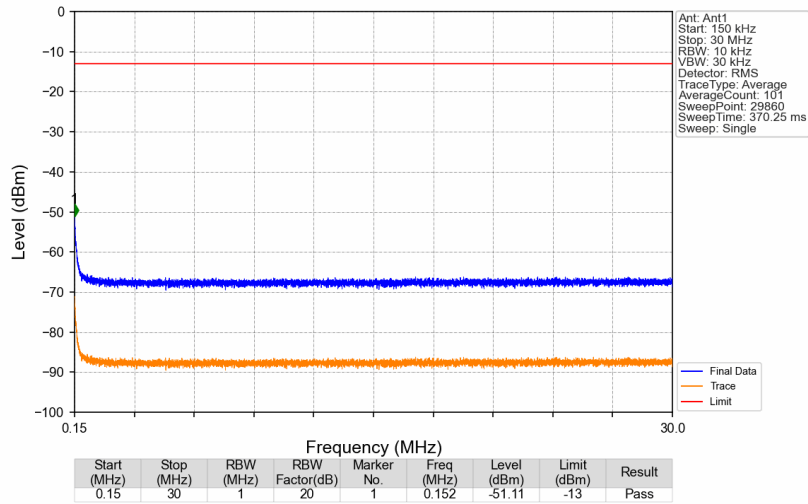


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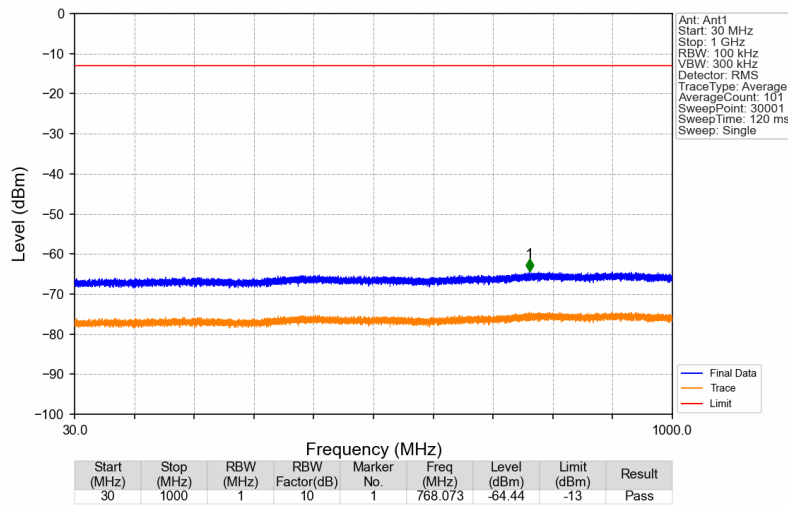
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3700MHz-3800MHz\_3700.1MHz\_GMSK\_SISO\_Ant1\_NTNV



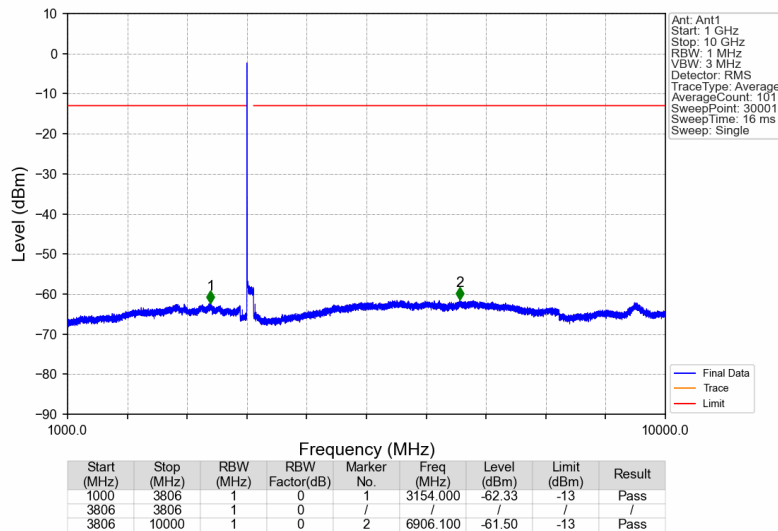
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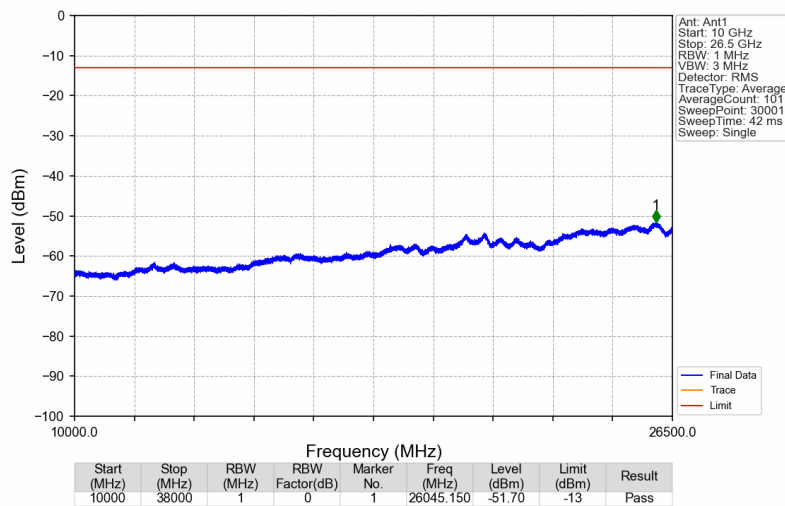
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### 3700MHz-3800MHz\_3700.1MHz\_GMSK\_SISO\_Ant1\_NTNV



### 3700MHz-3800MHz\_3700.1MHz\_GMSK\_SISO\_Ant1\_NTNV

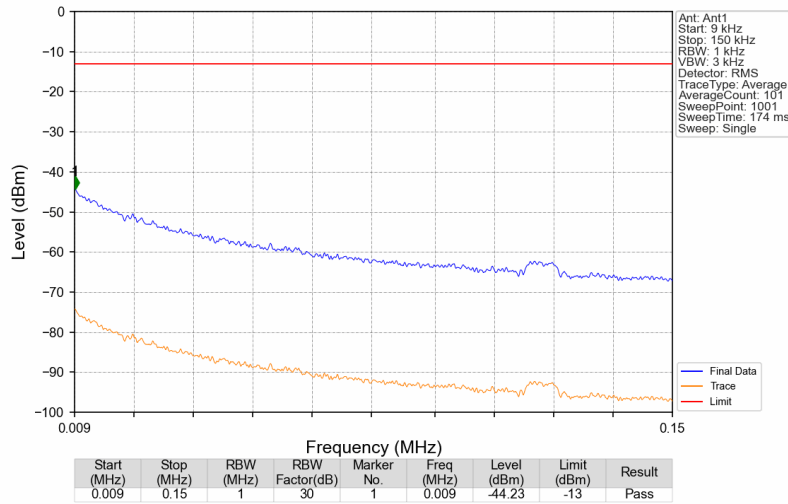


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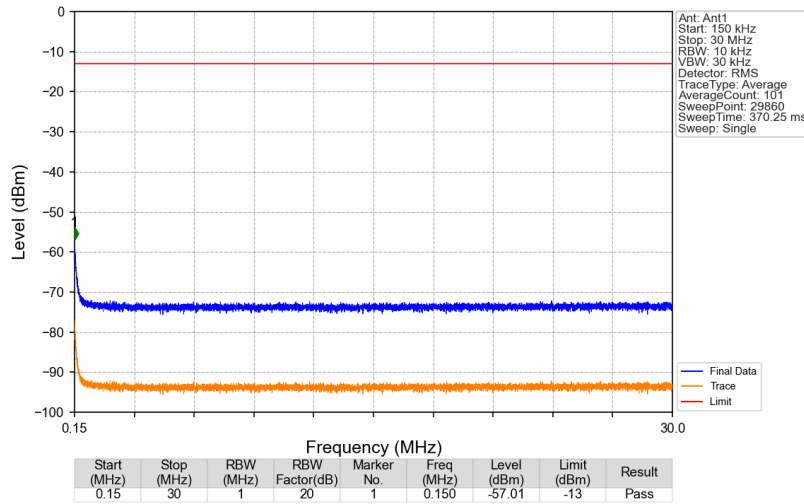
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3700MHz-3800MHz\_3750MHz\_GMSK\_SISO\_Ant1\_NTNV



3700MHz-3800MHz\_3750MHz\_GMSK\_SISO\_Ant1\_NTNV



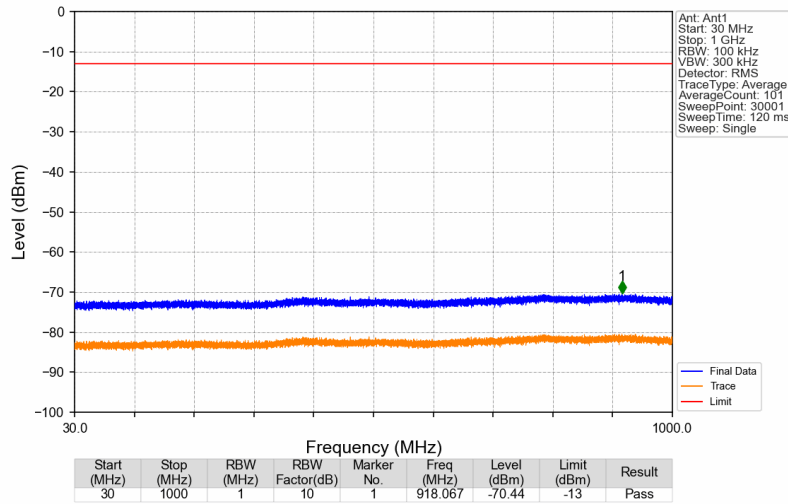
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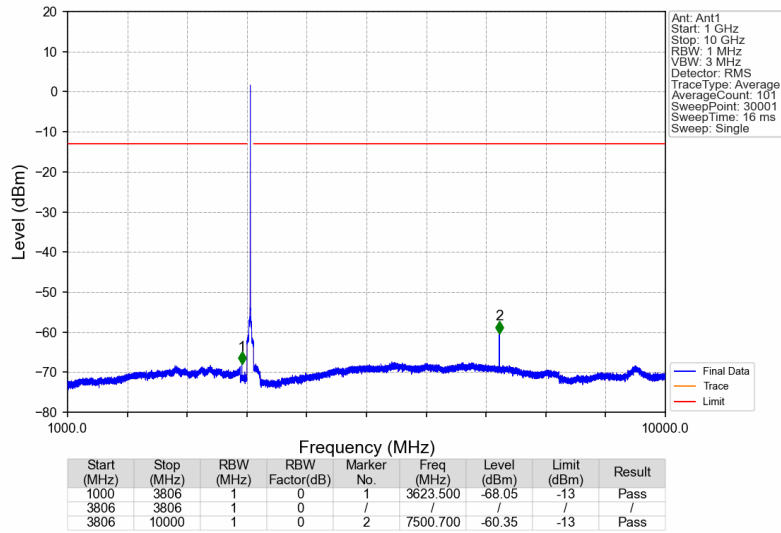
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### 3700MHz-3800MHz\_3750MHz\_GMSK\_SISO\_Ant1\_NTNV



### 3700MHz-3800MHz\_3750MHz\_GMSK\_SISO\_Ant1\_NTNV

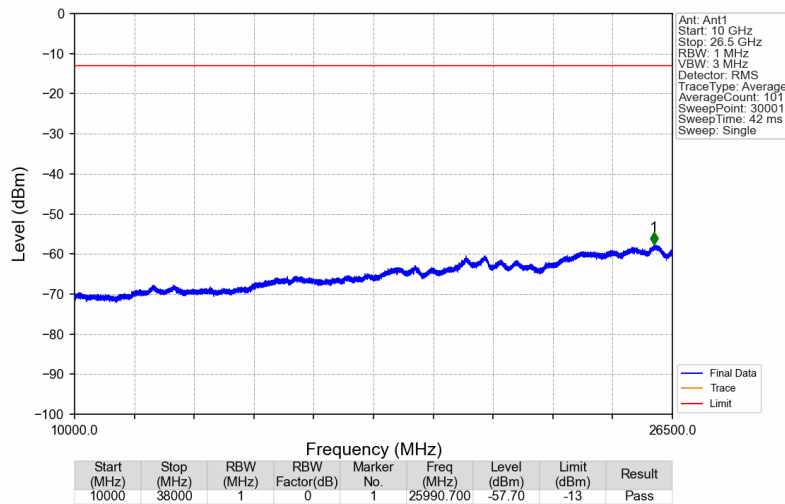


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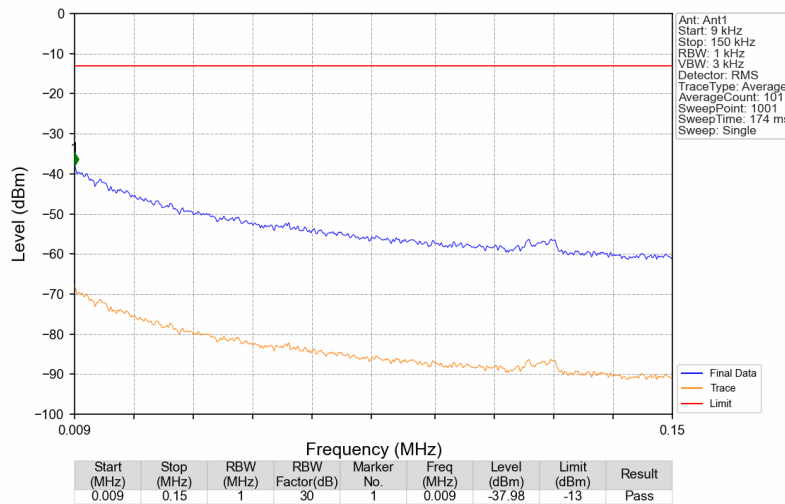
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### 3700MHz-3800MHz\_3750MHz\_GMSK\_SISO\_Ant1\_NTNV



### 3700MHz-3800MHz\_3799.9MHz\_GMSK\_SISO\_Ant1\_NTNV

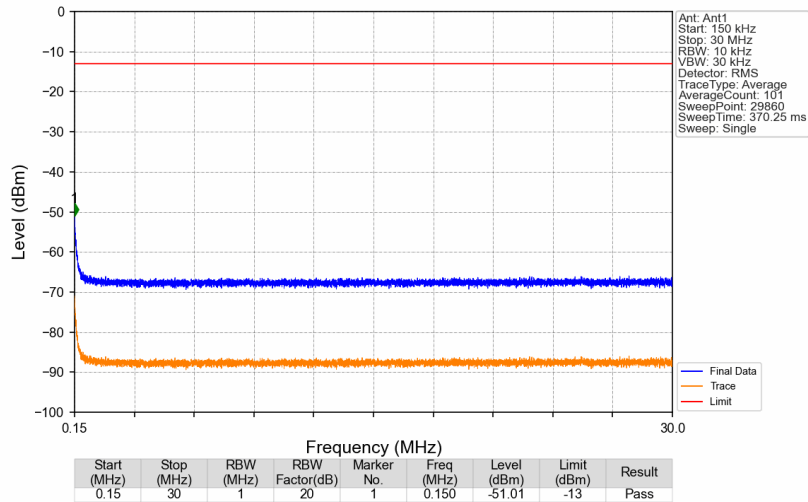


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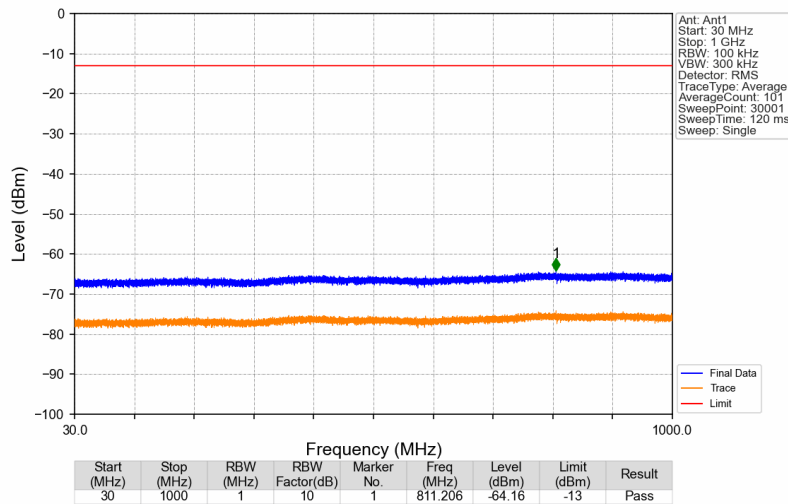
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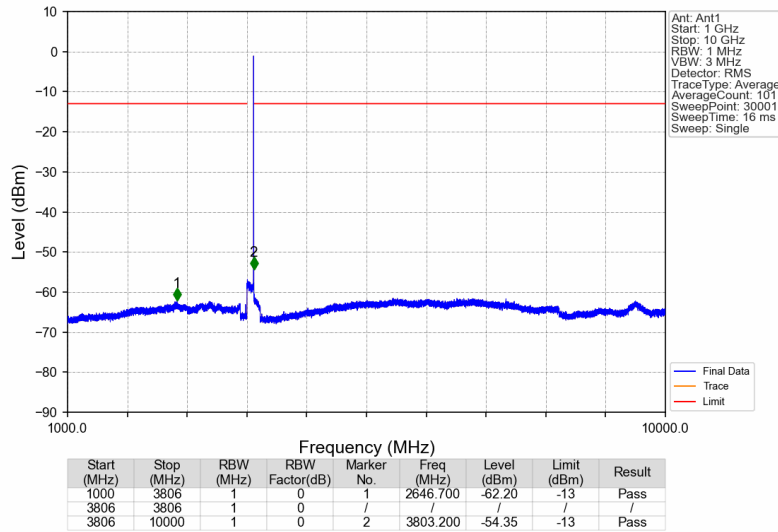


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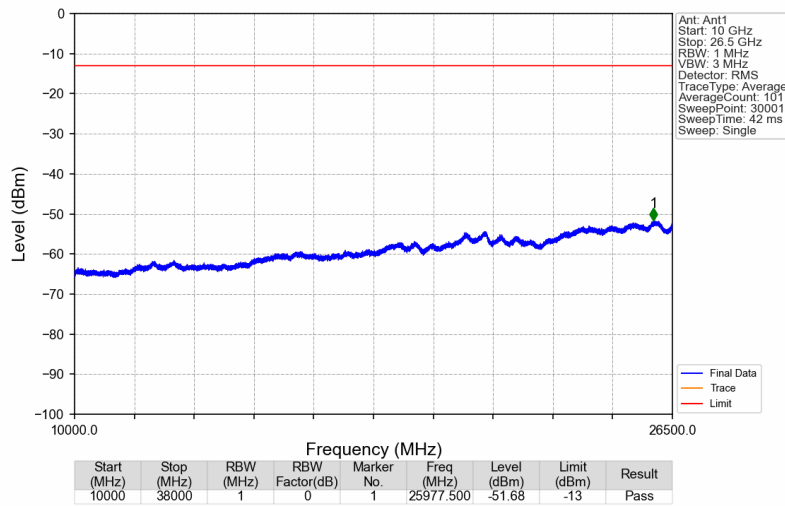
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## 7. Frequency stability measurements

### 7.1 3700MHz-3800MHz\_Ant1

#### 7.1.1 Test Result

3700MHz-3800MHz / NTNV								
Signal			Temp (°C)	Voltage (VDC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict	
Type	Level (dBm)	Frequency (MHz)						
CW	-0.02	3700.1	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
		3750	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
		3799.9	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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