

1. Out of band rejection

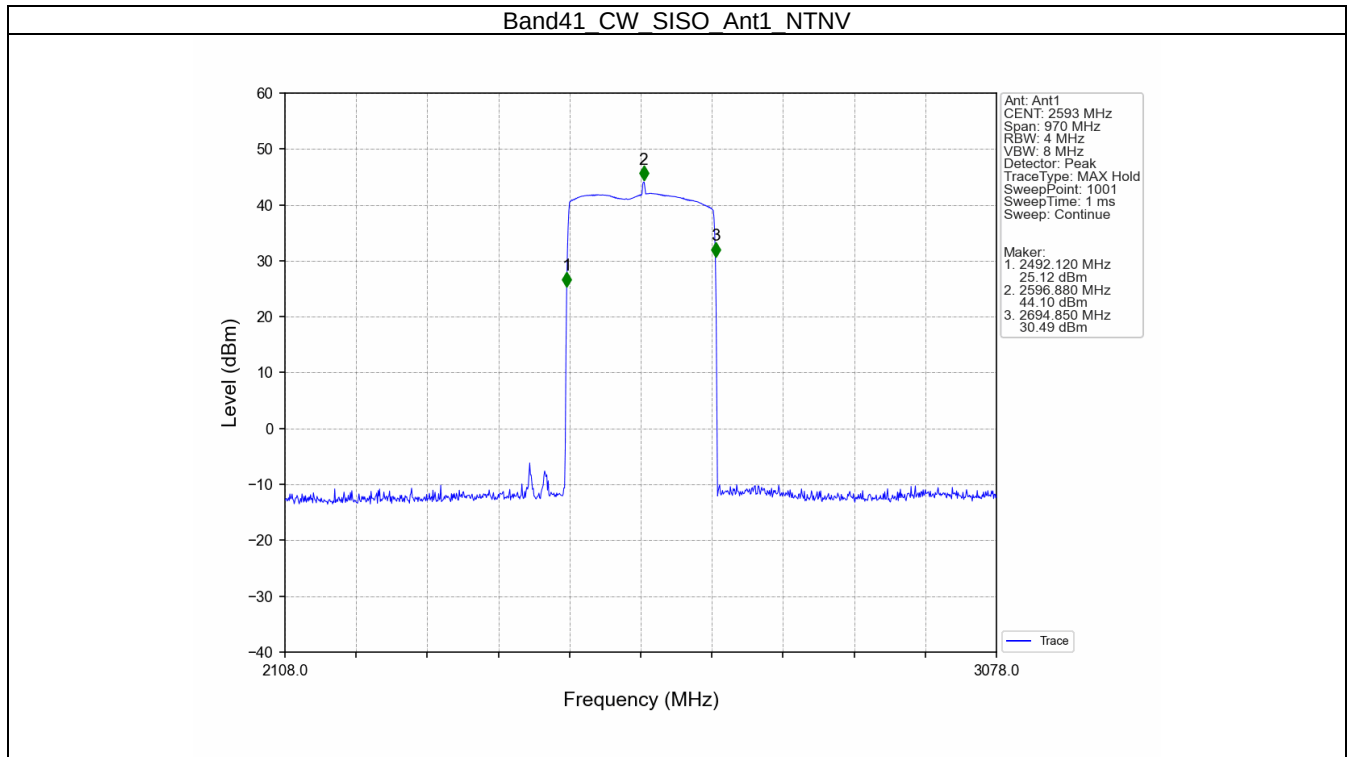
1.1 Test Result

1.1.1 Band41

Band: 41 / NTNV							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	2108 - 3078	SISO	1	2596.880	2492.120	2694.850	Pass

1.2 Test Graph

1.2.1 Band41



2. AGC threshold

2.1 Test Result

2.1.1 Band41

Band: 41 / NTNV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
GMSK 0.2MHz	2596.88	SISO	1	-0.10	Pass
AWGN 5MHz	2596.88	SISO	1	-0.10	Pass
AWGN 100MHz	2596.88	SISO	1	-0.10	Pass

3. Input-versus-output signal comparison

3.1 Test Result

3.1.1 Band41_OBW

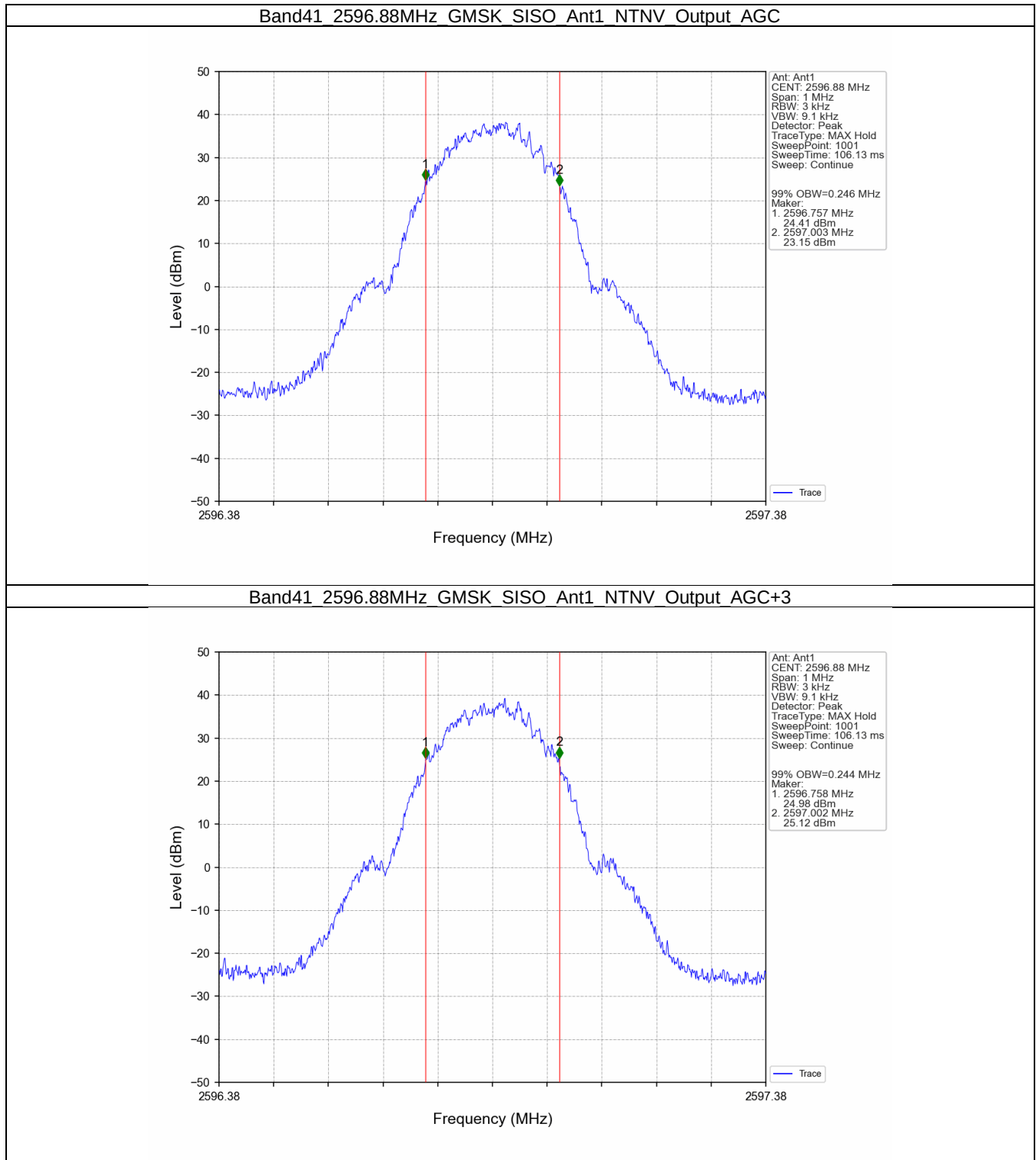
Band: 41 / NTNV							
Signal			TX Type	ANT	99% OBW (MHz)		Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	
GMSK 0.2MHz	-0.1	2596.88	SISO	1	0.246	0.244	Pass
	2.9	2596.88	SISO	1	0.244	0.244	Pass
AWGN 5MHz	-0.1	2596.88	SISO	1	4.530	4.550	Pass
	2.9	2596.88	SISO	1	4.538	4.550	Pass
AWGN 100MHz	-0.1	2596.88	SISO	1	97.585	97.265	Pass
	2.9	2596.88	SISO	1	97.394	97.382	Pass

3.1.2 Band41_EBW

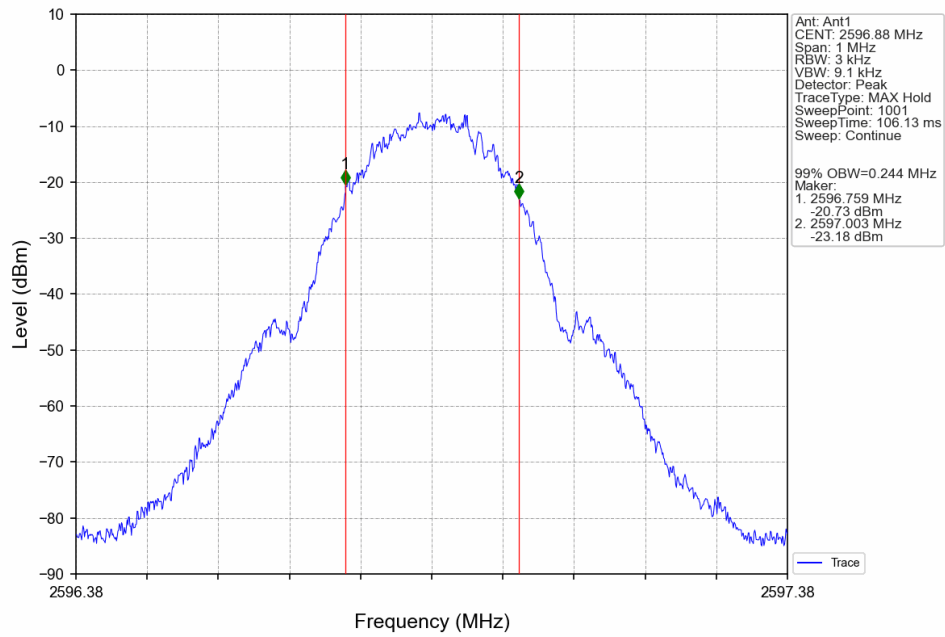
Band: 41 / NTNV							
Signal			TX Type	ANT	26dB EBW (MHz)		Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	
GMSK 0.2MHz	-0.1	2596.88	SISO	1	0.316	0.311	Pass
	2.9	2596.88	SISO	1	0.318	0.315	Pass
AWGN 5MHz	-0.1	2596.88	SISO	1	5.121	5.136	Pass
	2.9	2596.88	SISO	1	5.146	5.133	Pass
AWGN 100MHz	-0.1	2596.88	SISO	1	100.659	100.722	Pass
	2.9	2596.88	SISO	1	100.669	100.812	Pass

3.2 Test Graph

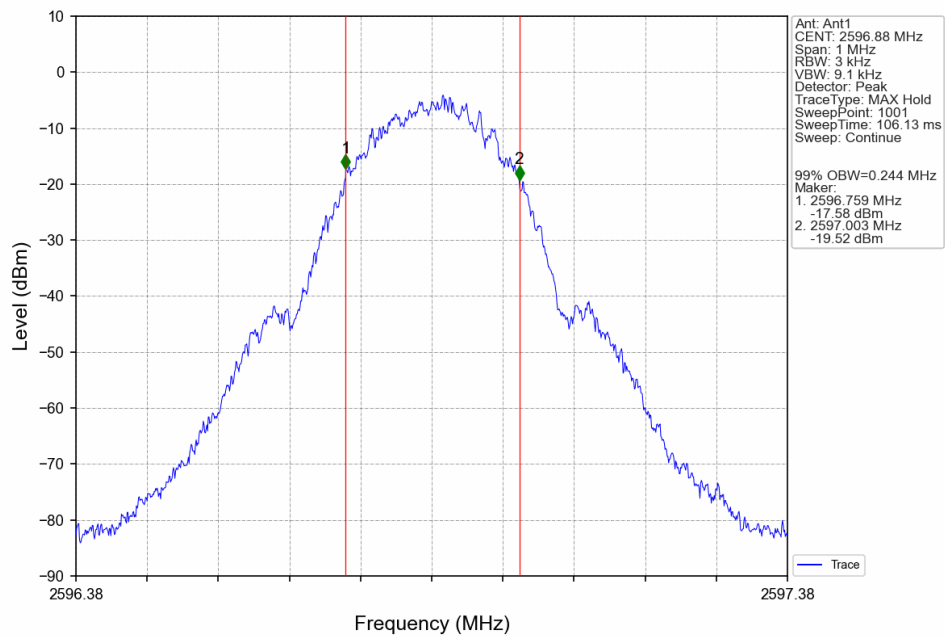
3.2.1 Band41_OBW



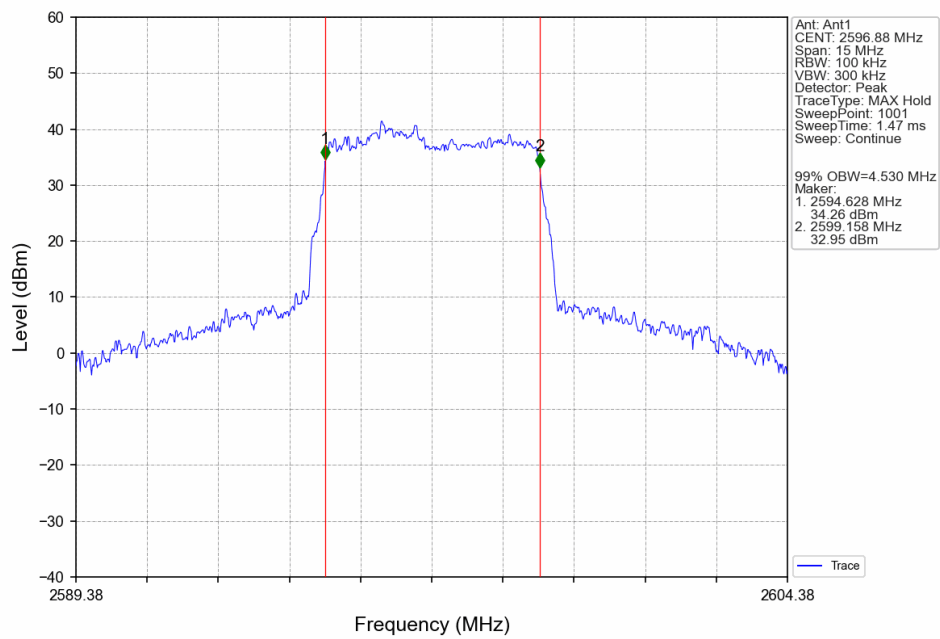
Band41_2596.88MHz_GMSK_SISO_Ant1_NTNV_Input_AGC



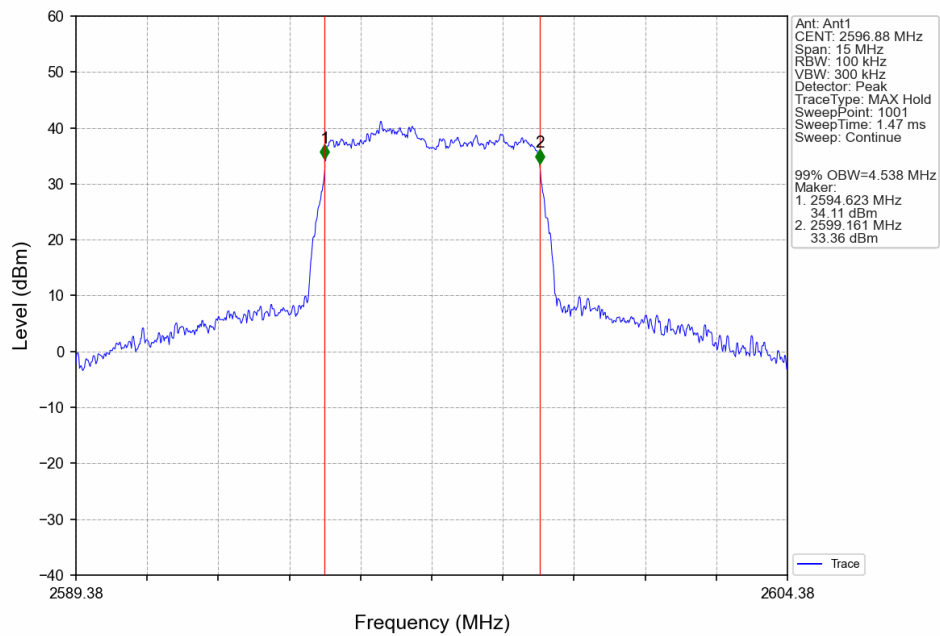
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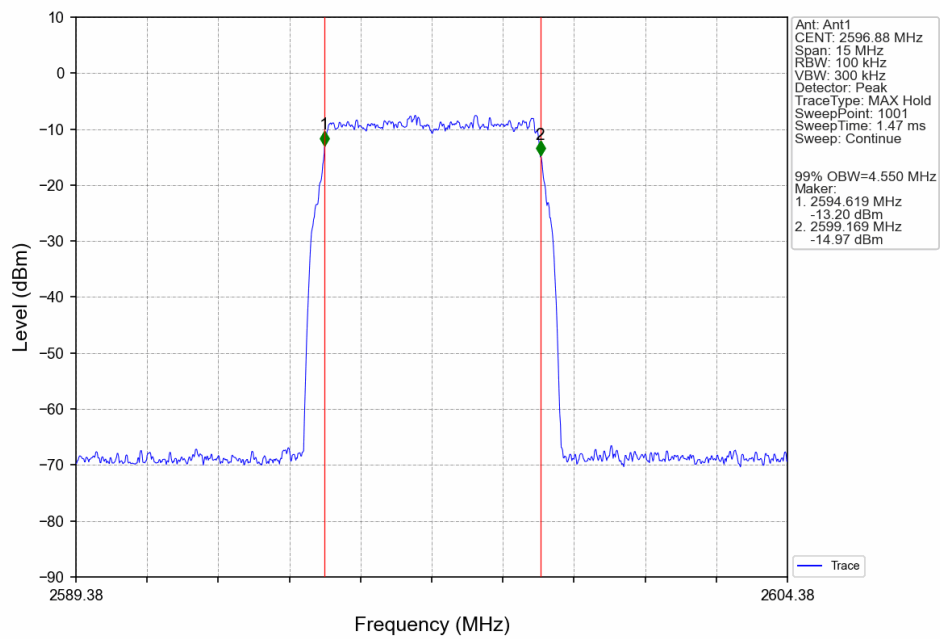
Band41_2596.88MHz_AWGN_SISO_Ant1_NTNV_Output_AGC



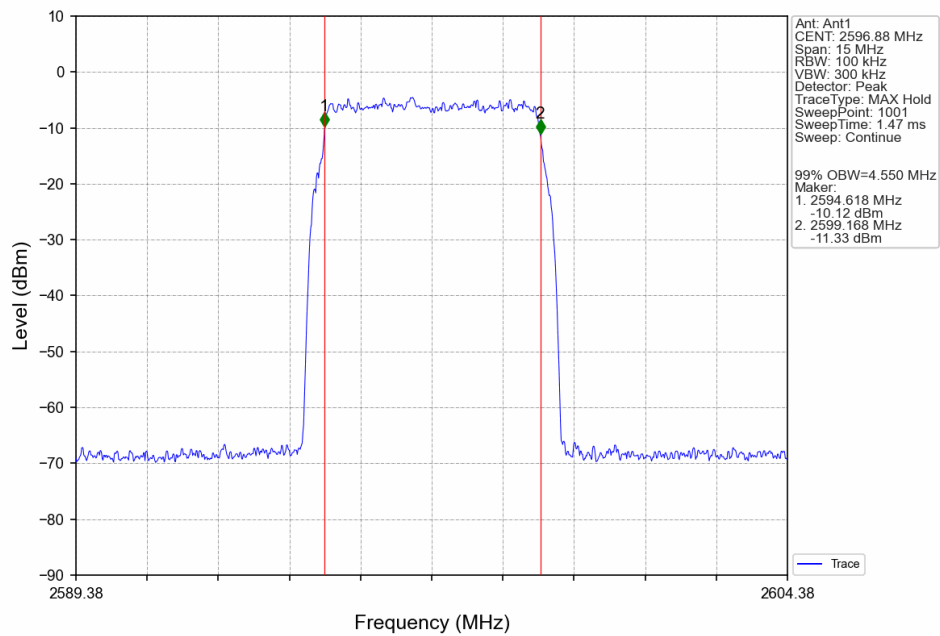
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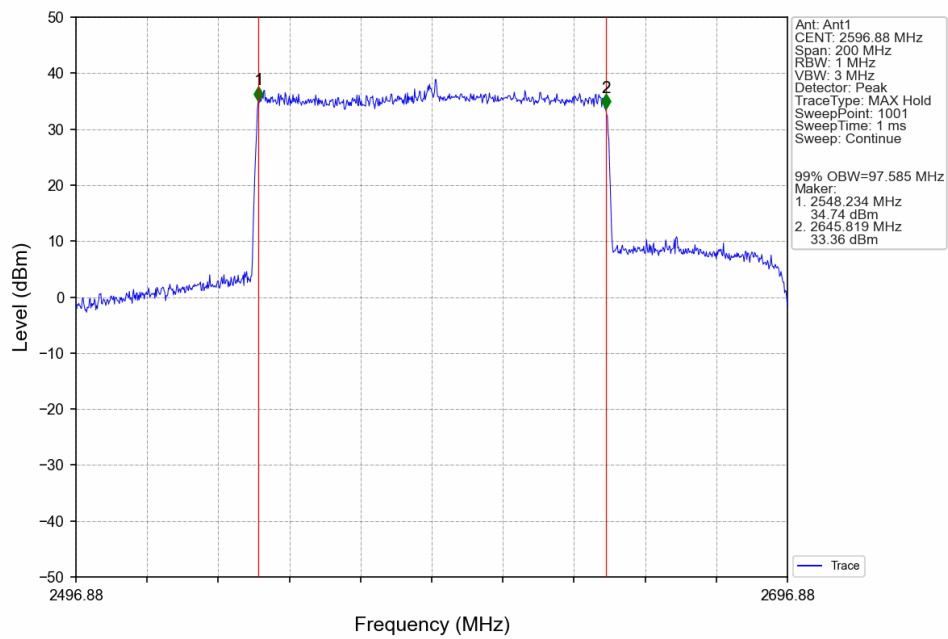
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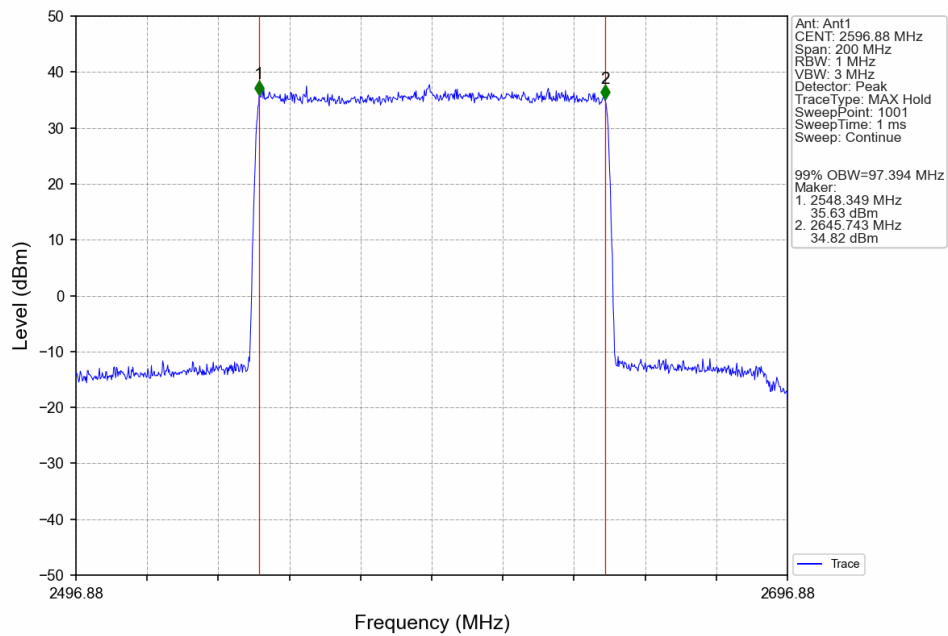
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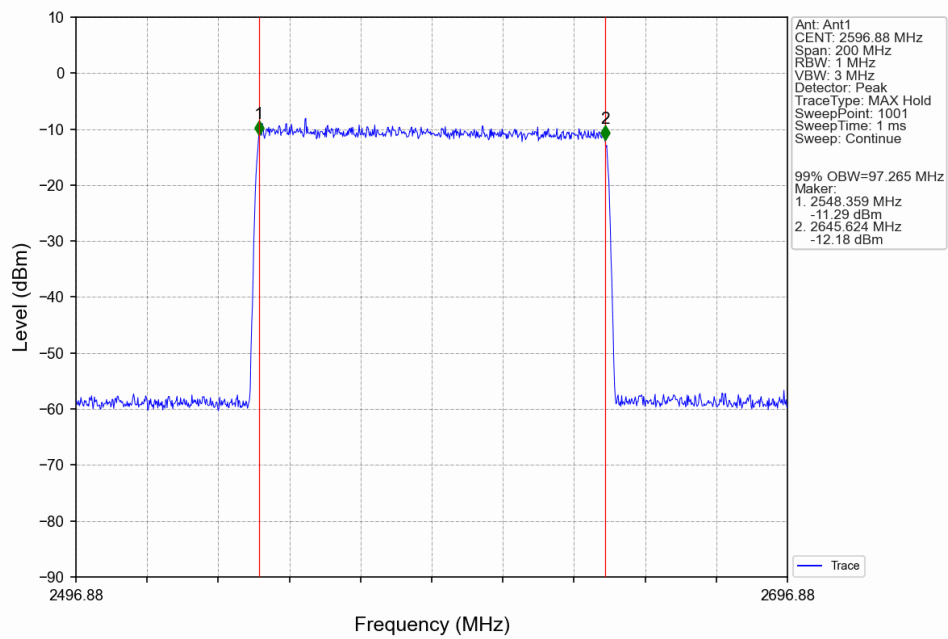
Band41_2596.88MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC



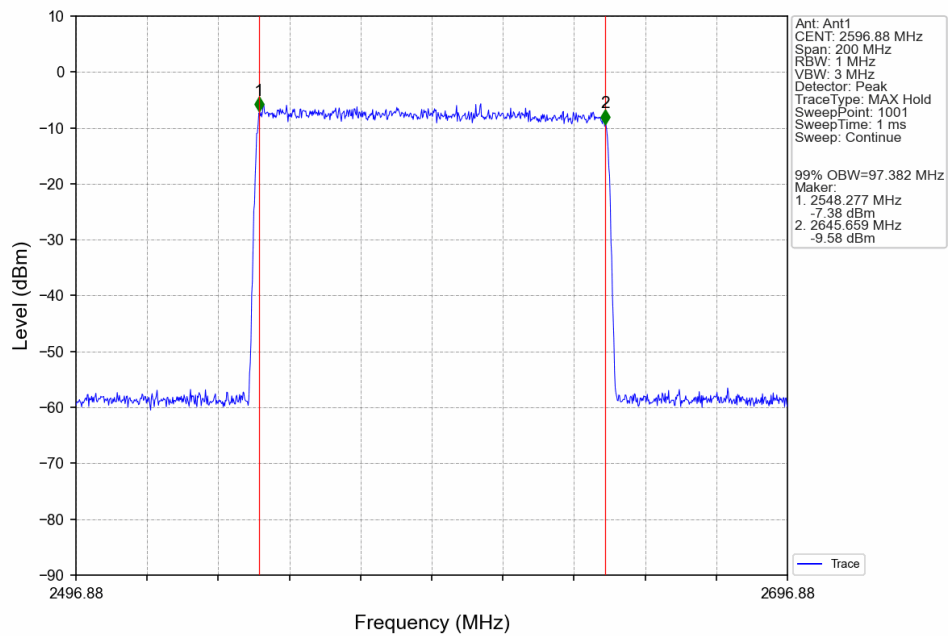
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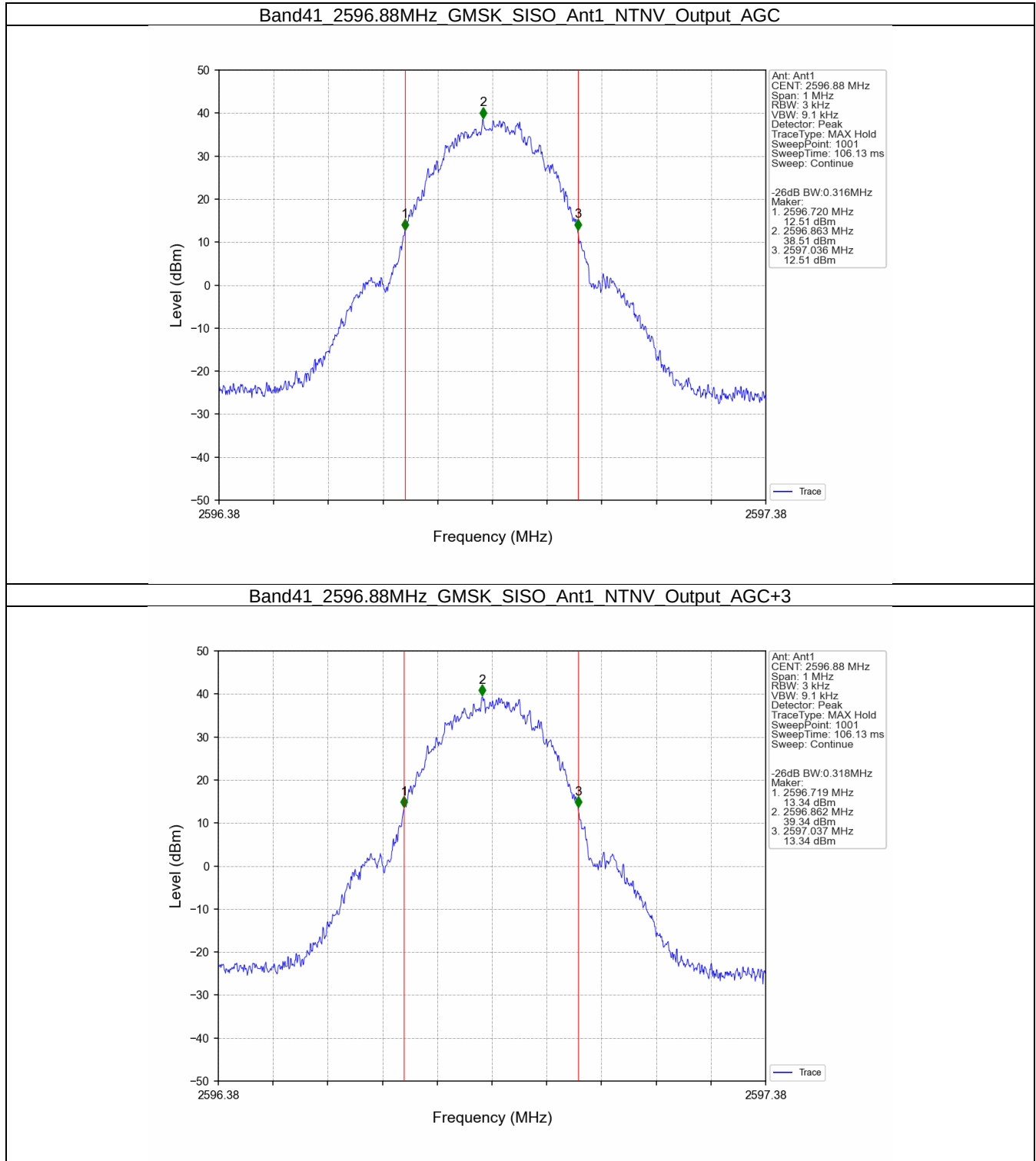
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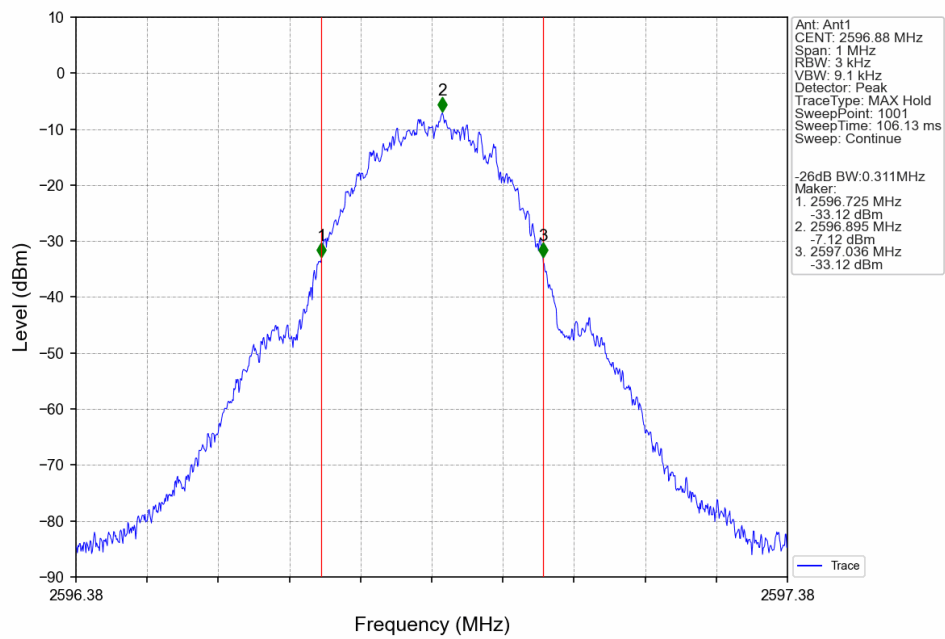
Band41_2596.88MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC+3



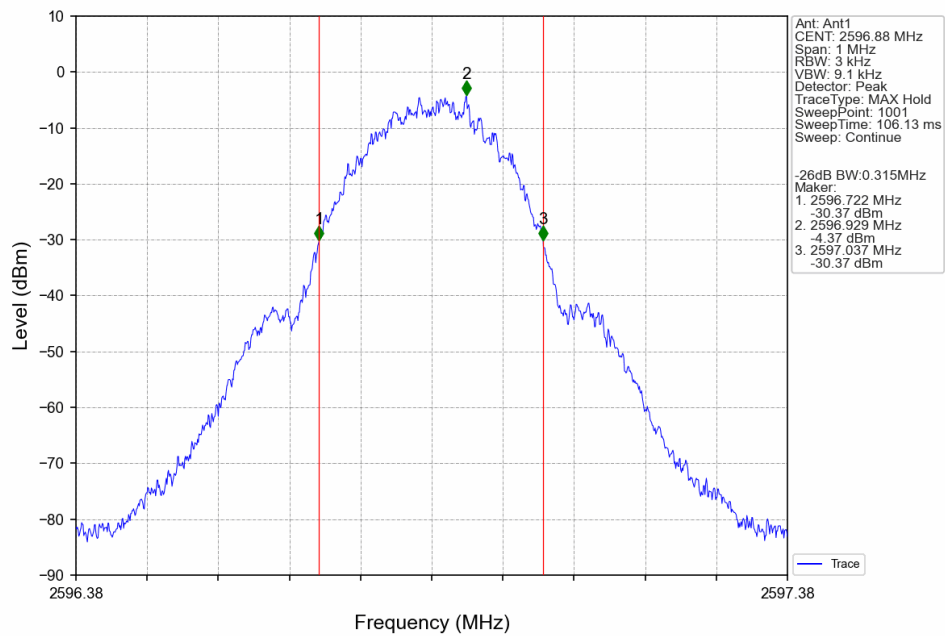
3.2.2 Band41_EBW



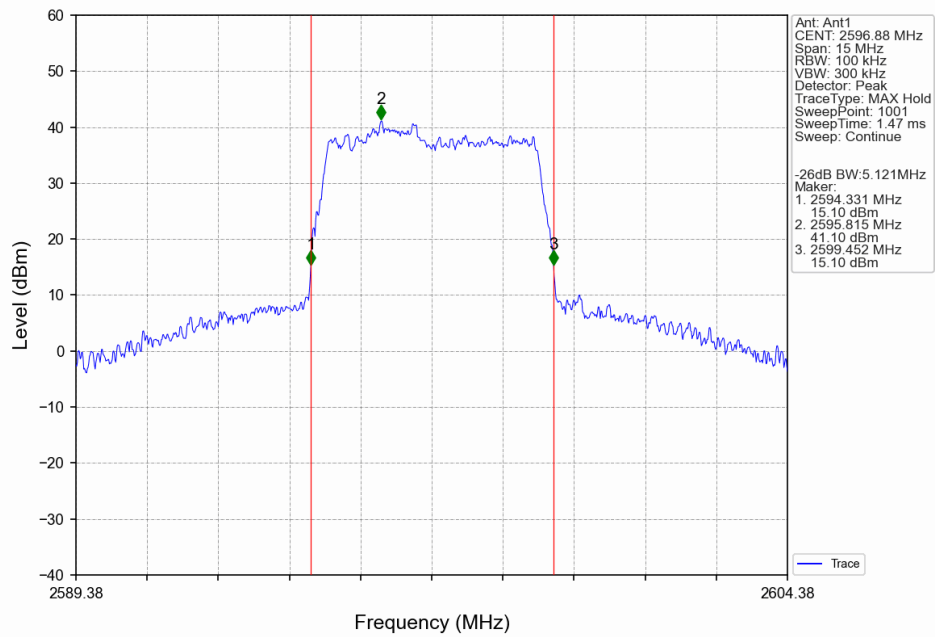
Band41_2596.88MHz_GMSK_SISO_Ant1_NTNV_Input_AGC



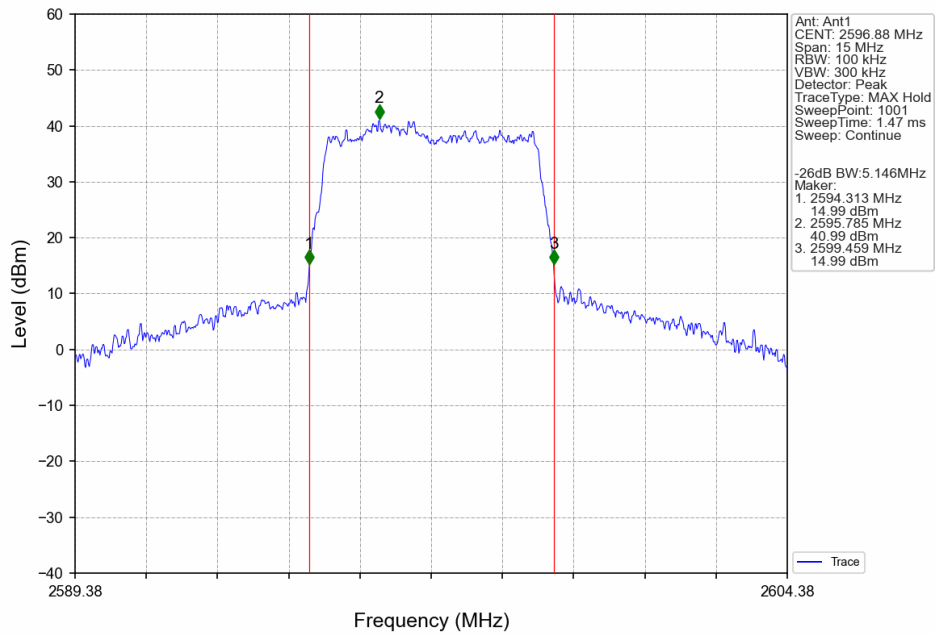
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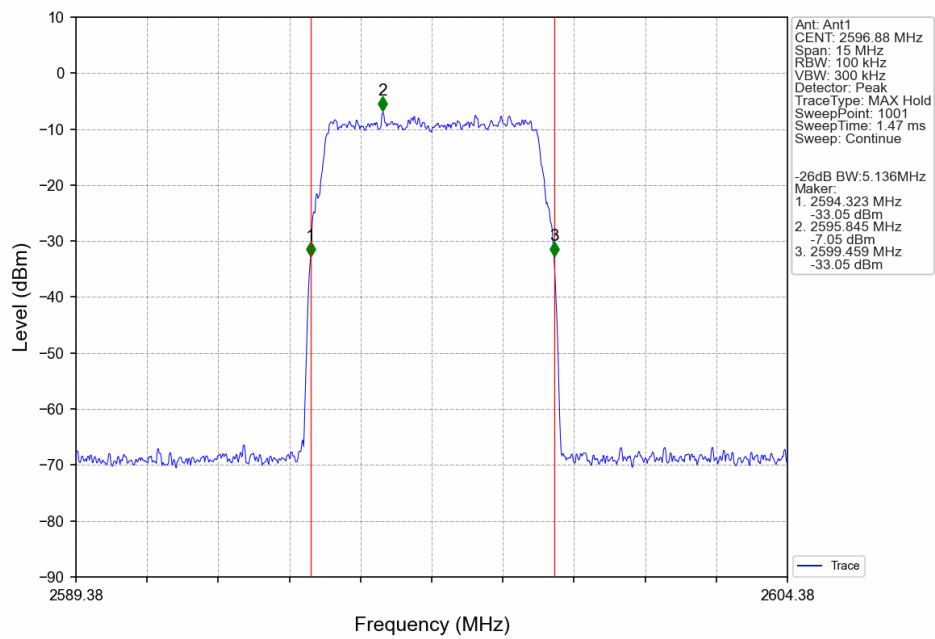
Band41_2596.88MHz_AWGN_SISO_Ant1_NTNV_Output_AGC



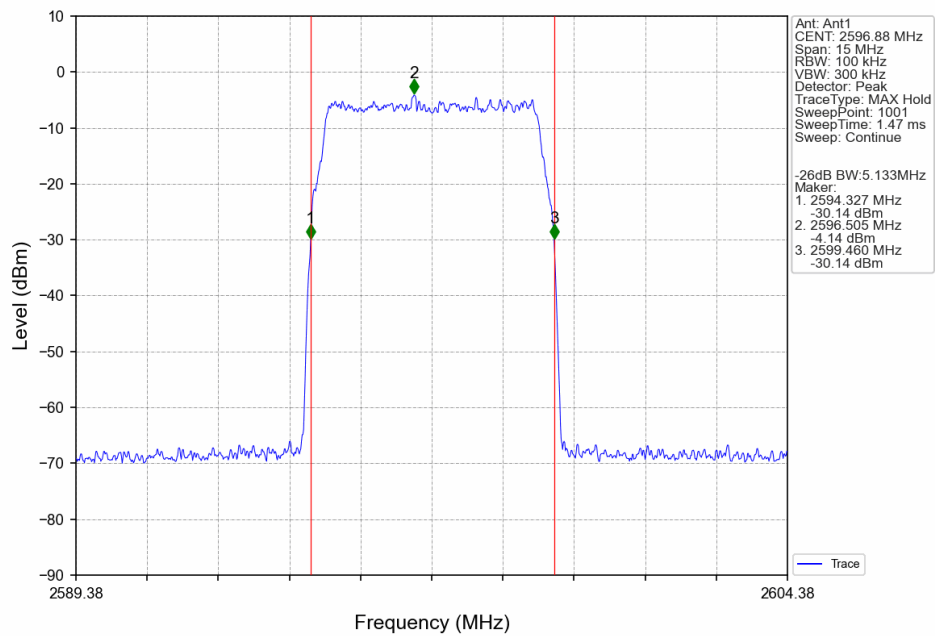
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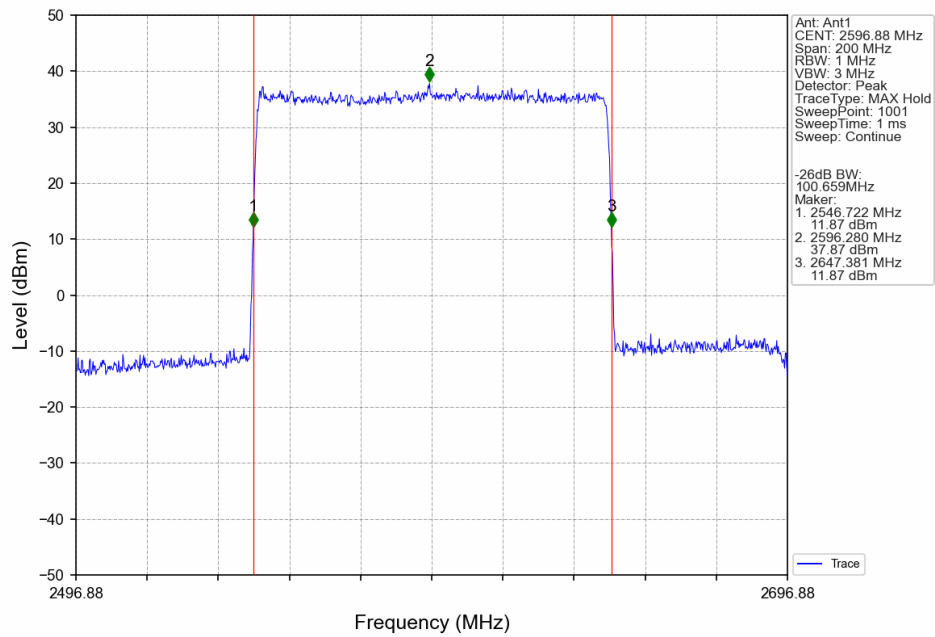
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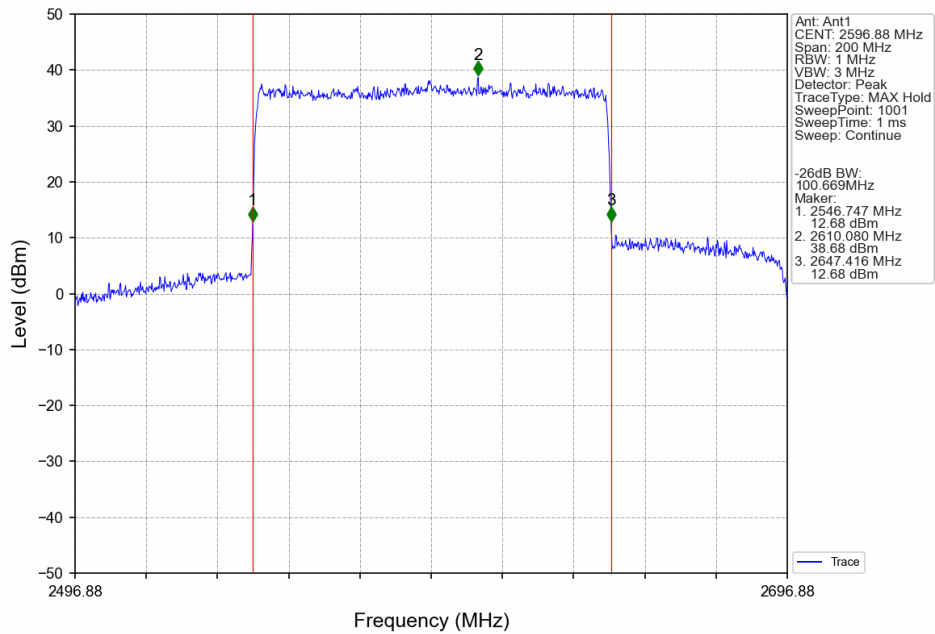
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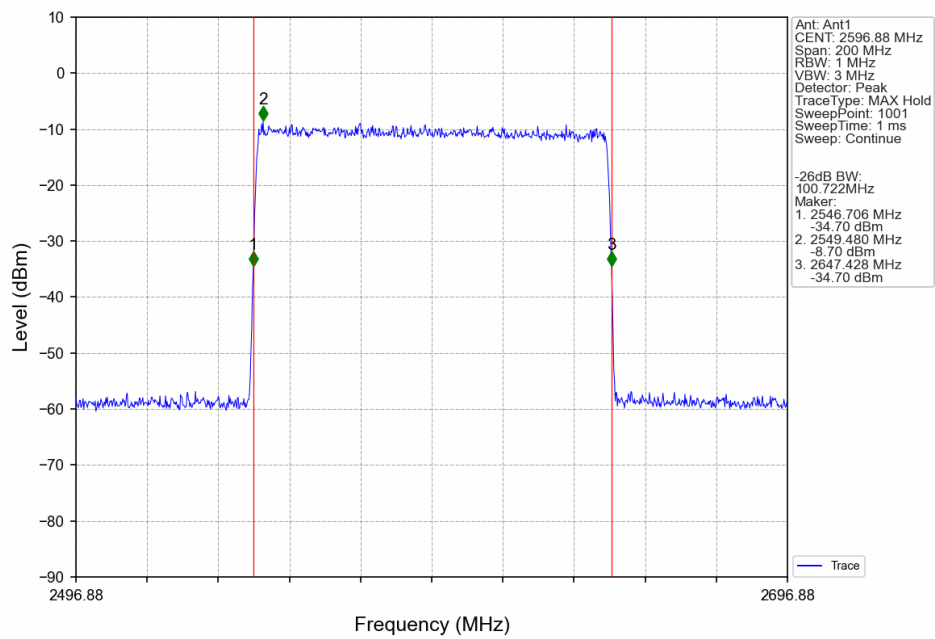
Band41_2596.88MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC



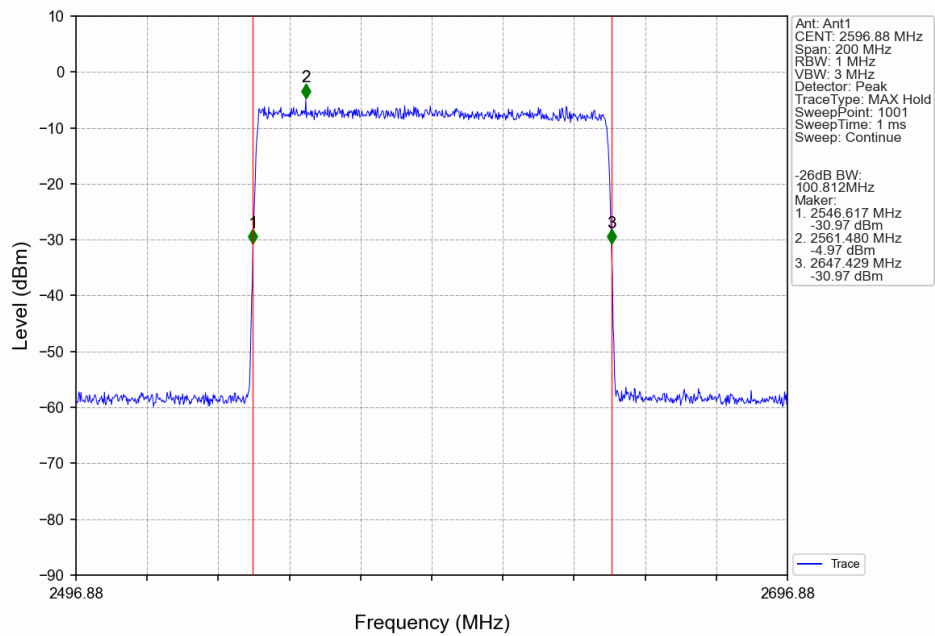
Band41_2596.88MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC+3



Band41_2596.88MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC



Band41_2596.88MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC+3



4. Input/output power and amplifier/booster gain

4.1 Test Result

4.1.1 Band41_EIRP

Band: 41 / NTNV											
Signal			TX Type	ANT	Conducted Power (dBm)		Antenna Gain (dB)	EIRP (dBm)		Booster Gain (dB)	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input		Result	Limit		
GMSK 0.2MHz	-0.1	2596.88	SISO	1	45.78	-0.05	11	56.78	<=63	45.83	Pass
	2.9	2596.88	SISO	1	45.81	2.93	11	56.81	<=63	/	Pass
AWGN 5MHz	-0.1	2596.88	SISO	1	45.01	-0.07	11	56.01	<=63	45.08	Pass
	2.9	2596.88	SISO	1	45.09	2.91	11	56.09	<=63	/	Pass
AWGN 100MHz	-0.1	2596.88	SISO	1	45.03	-0.08	11	56.03	<=63	45.11	Pass
	2.9	2596.88	SISO	1	45.23	2.92	11	56.23	<=63	/	Pass

Band: 41 / NTNV											
Signal			Conducted Power (dBm)			Antenna Gain (dB)	EIRP (dBm)			Limit (dBm)	Verdict
Type	Level (dBm)	Frequency (MHz)	SISO	2X2	4X4		SISO	2X2	4X4		
GMSK 0.2MHz	-0.1	2596.88	45.78	48.79	51.80	11	56.78	59.79	62.80	<=63	Pass
	2.9	2596.88	45.81	48.82	51.83	11	56.81	59.82	62.83	<=63	Pass
AWGN 5MHz	-0.1	2596.88	45.01	48.02	51.03	11	56.01	59.02	62.03	<=63	Pass
	2.9	2596.88	45.09	48.10	51.11	11	56.09	59.10	62.11	<=63	Pass
AWGN 100MHz	-0.1	2596.88	45.03	48.04	51.05	11	56.03	59.04	62.05	<=63	Pass
	2.9	2596.88	45.23	48.24	51.25	11	56.23	59.24	62.25	<=63	Pass

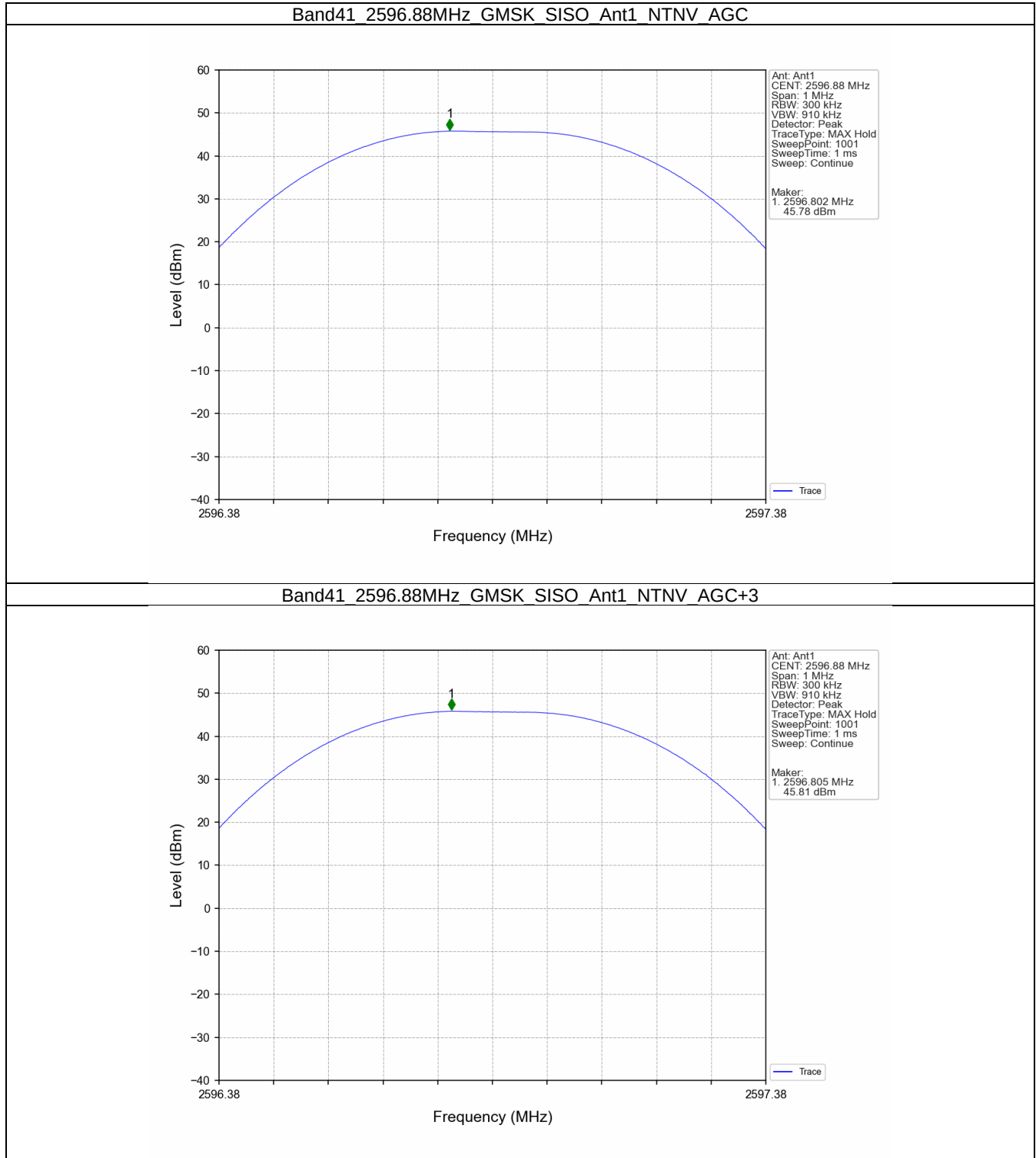
Note: EUT supports MIMO and each antenna port is the same, according to C63.26 6.4,a coefficient is added to the single antenna port power to calculate the total power.2x2 MIMO add $10\lg(2)=3.01$ dB,4x4 MIMO add $10\lg(4)=6.02$ dB.

4.1.2 Band41_PAPR

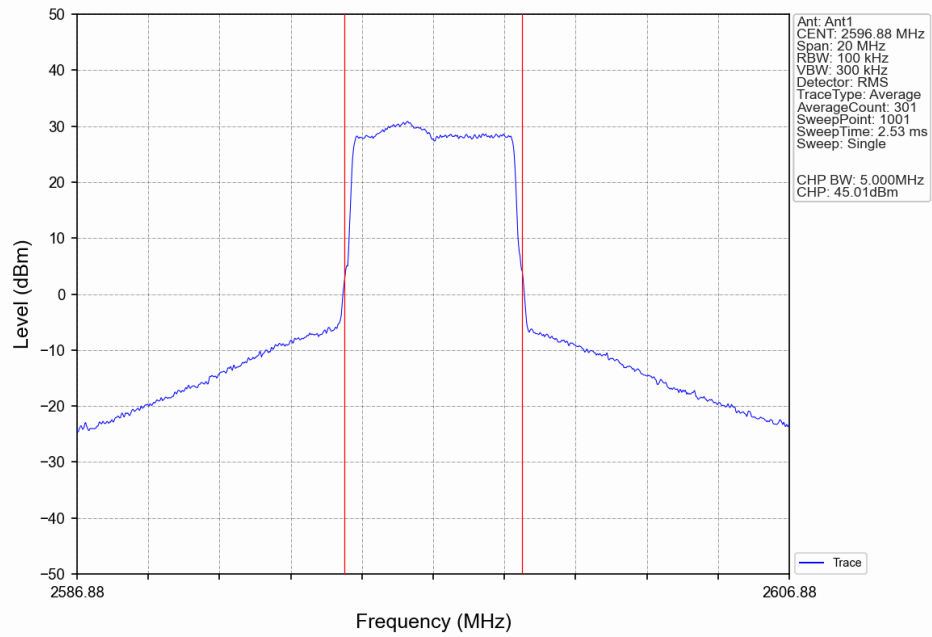
Band: 41 / NTNV							
Signal			TX Type	ANT	PAPR (dB)		Verdict
Type	Level (dBm)	Frequency (MHz)			Result	Limit	
GMSK 0.2MHz	-0.1	2596.88	SISO	1	0.40	<=13	Pass
	2.9	2596.88	SISO	1	0.37	<=13	Pass
AWGN 5MHz	-0.1	2596.88	SISO	1	7.77	<=13	Pass
	2.9	2596.88	SISO	1	7.38	<=13	Pass
AWGN 100MHz	-0.1	2596.88	SISO	1	8.47	<=13	Pass
	2.9	2596.88	SISO	1	8.41	<=13	Pass

4.2 Test Graph

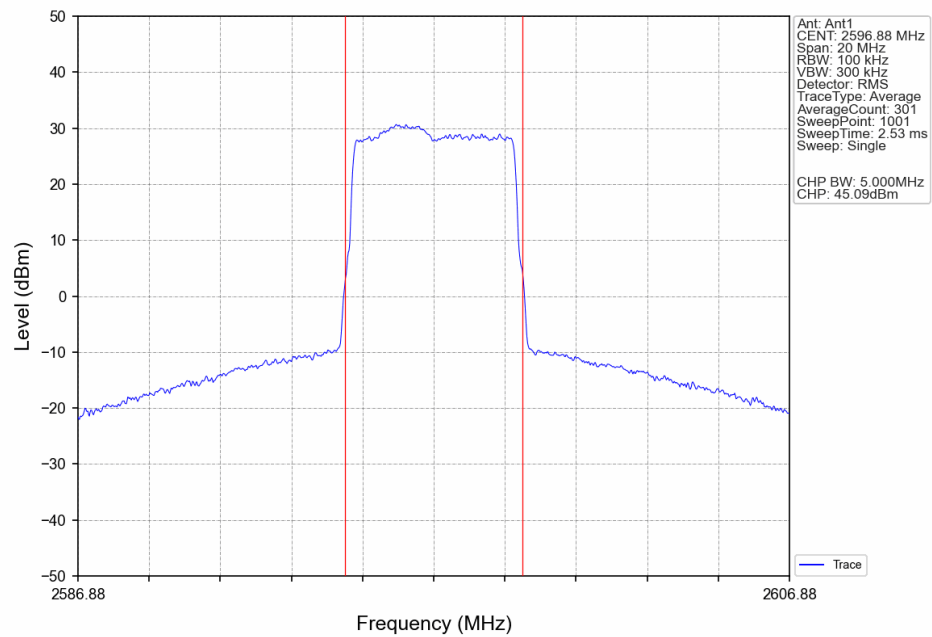
4.2.1 Band41_EIRP



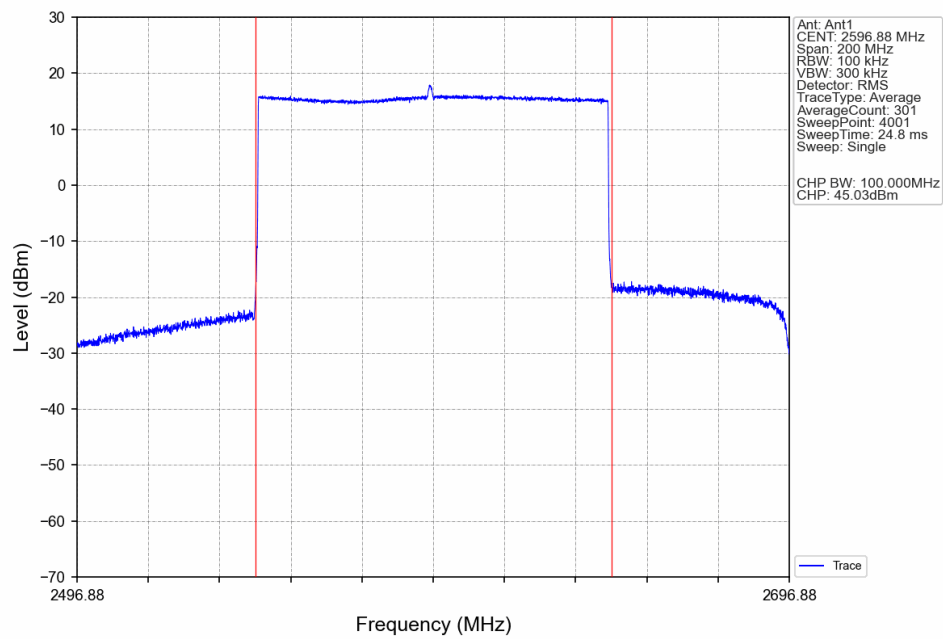
Band41_2596.88MHz_AWGN_SISO_Ant1_NTNV_AGC



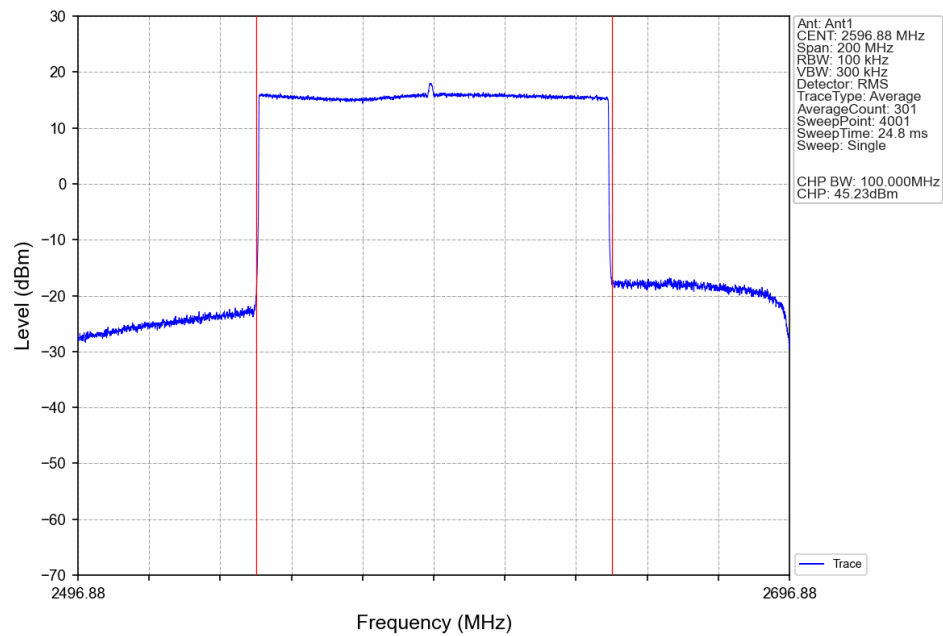
Band41_2596.88MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Band41_2596.88MHz_Broad100MHz_SISO_Ant1_NTNV_AGC

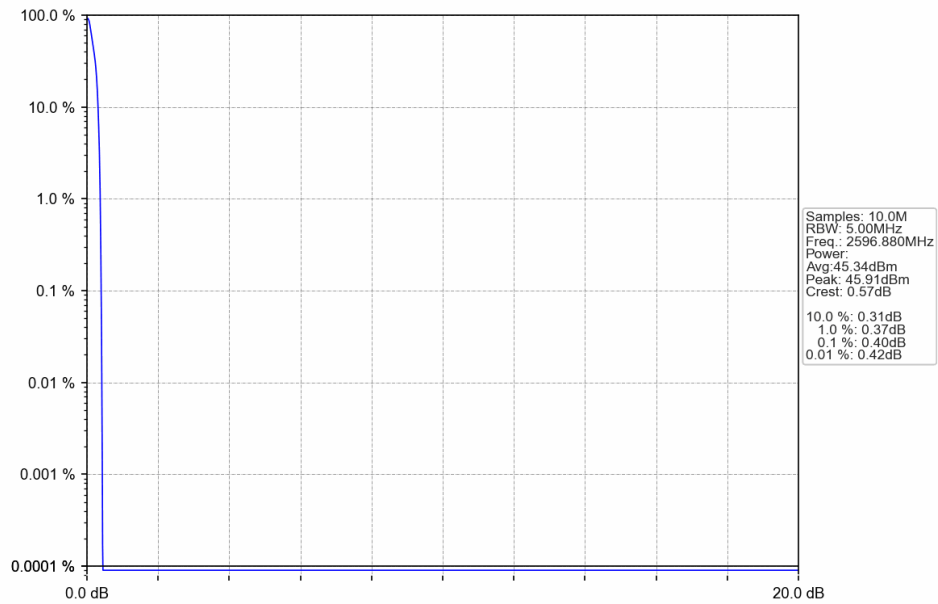


Band41_2596.88MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3

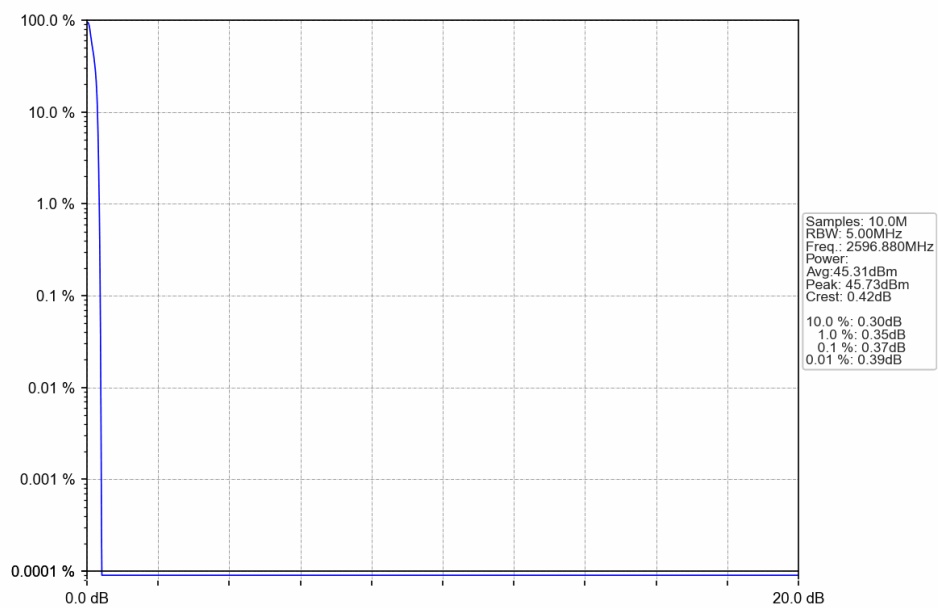


4.2.2 Band41_PAPR

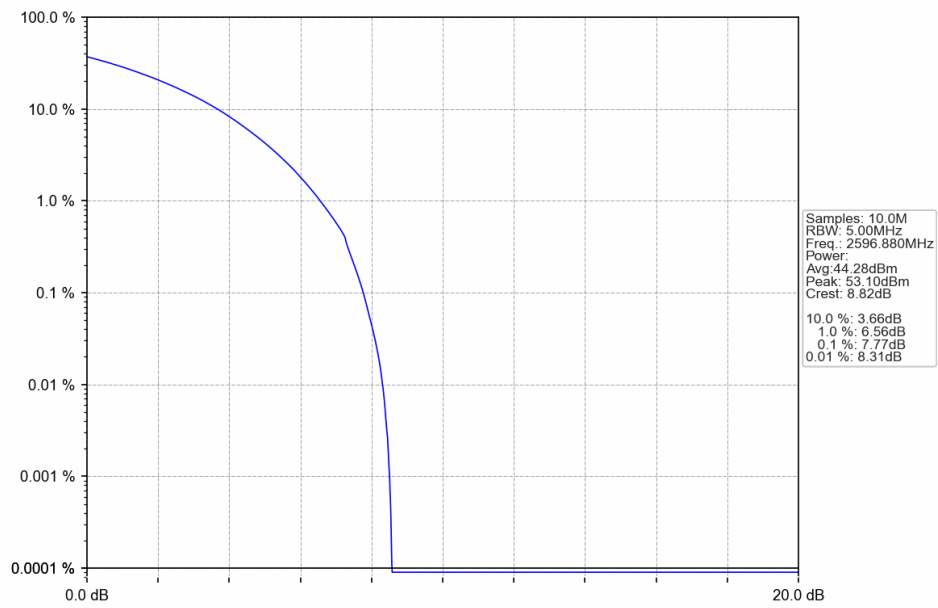
Band41_ 2596.88MHz GMSK SISO_Ant1_NTNV_AGC



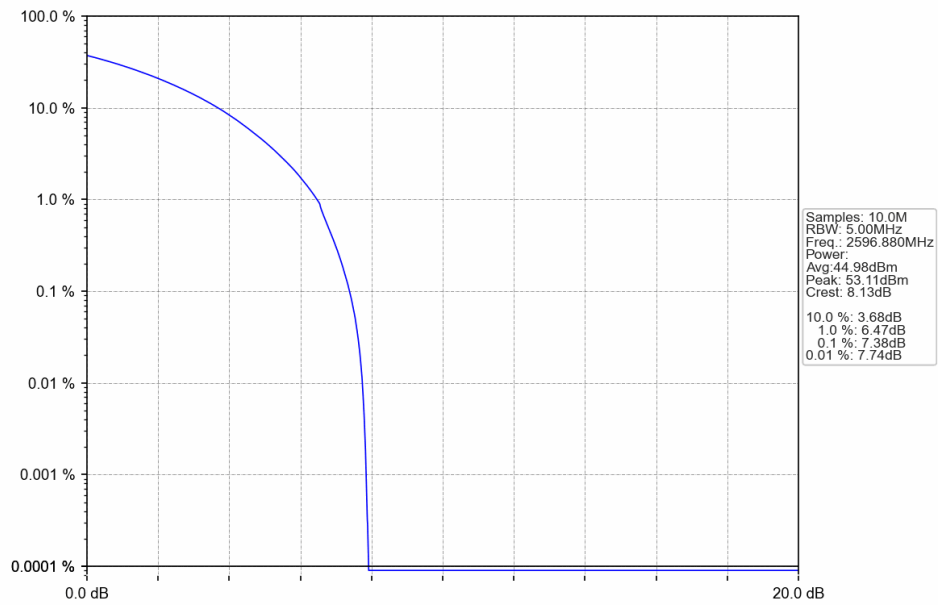
Band41_ 2596.88MHz GMSK SISO_Ant1_NTNV_AGC+3



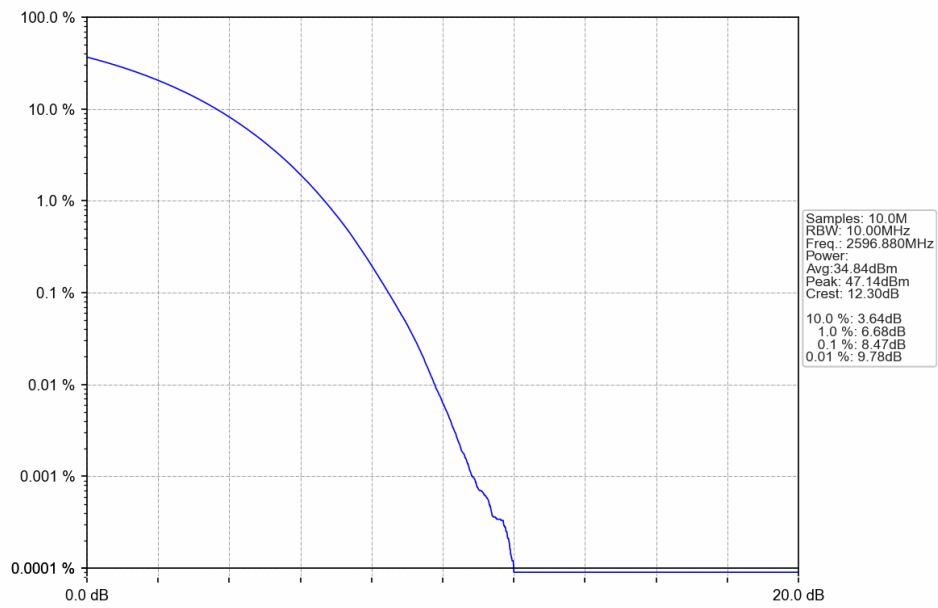
Band41_2596.88MHz_AWGN_SISO_Ant1_NTNV_AGC



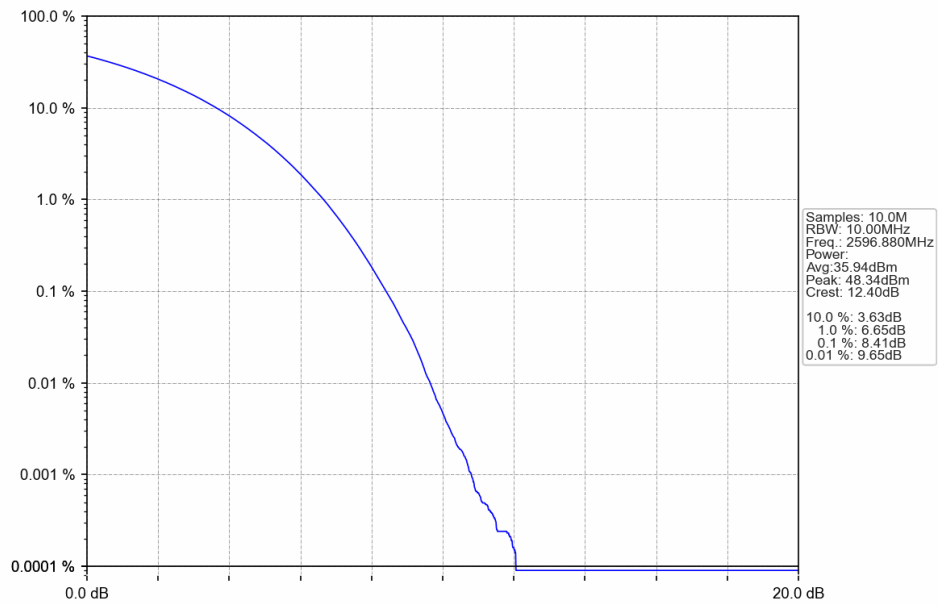
Band41_2596.88MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Band41_2596.88MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



Band41_2596.88MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



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

5.1 Test Result

5.1.1 Band41

Band: 41 / NTNV									
Signal				Channel	TX Type	ANT	OOB (dBm)		Verdict
Input	Type	Level (dBm)	Frequency (MHz)				Result	Limit	
Two	GMSK 0.2MHz	-0.1	2496.2	LCH	SISO	1	-26.380	Refer To Test Graph	Pass
		2.9	2496.2	LCH	SISO	1	-26.127	Refer To Test Graph	Pass
One	GMSK 0.2MHz	-0.1	2496.2	LCH	SISO	1	-25.982	Refer To Test Graph	Pass
		2.9	2496.2	LCH	SISO	1	-26.538	Refer To Test Graph	Pass
Two	GMSK 0.2MHz	-0.1	2689.8	HCH	SISO	1	-25.642	Refer To Test Graph	Pass
		2.9	2689.8	HCH	SISO	1	-25.975	Refer To Test Graph	Pass
One	GMSK 0.2MHz	-0.1	2689.8	HCH	SISO	1	-25.823	Refer To Test Graph	Pass
		2.9	2689.8	HCH	SISO	1	-25.794	Refer To Test Graph	Pass
Two	AWGN 5MHz	-0.1	2498.5	LCH	SISO	1	-21.894	Refer To Test Graph	Pass
		2.9	2498.5	LCH	SISO	1	-22.823	Refer To Test Graph	Pass
One	AWGN 5MHz	-0.1	2498.5	LCH	SISO	1	-23.000	Refer To Test Graph	Pass
		2.9	2498.5	LCH	SISO	1	-22.026	Refer To Test Graph	Pass
Two	AWGN 5MHz	-0.1	2687.5	HCH	SISO	1	-21.500	Refer To Test Graph	Pass
		2.9	2687.5	HCH	SISO	1	-21.844	Refer To Test Graph	Pass
One	AWGN 5MHz	-0.1	2687.5	HCH	SISO	1	-22.041	Refer To Test Graph	Pass
		2.9	2687.5	HCH	SISO	1	-23.456	Refer To Test Graph	Pass
Two	AWGN 100MHz	-0.1	2546	LCH	SISO	1	-22.503	Refer To Test Graph	Pass
		2.9	2546	LCH	SISO	1	-22.302	Refer To Test Graph	Pass
One	AWGN 100MHz	-0.1	2546	LCH	SISO	1	-22.815	Refer To Test Graph	Pass
		2.9	2546	LCH	SISO	1	-22.532	Refer To Test Graph	Pass
Two	AWGN 100MHz	-0.1	2640	HCH	SISO	1	-23.294	Refer To Test Graph	Pass
		2.9	2640	HCH	SISO	1	-23.178	Refer To Test Graph	Pass
One	AWGN 100MHz	-0.1	2640	HCH	SISO	1	-23.952	Refer To Test Graph	Pass

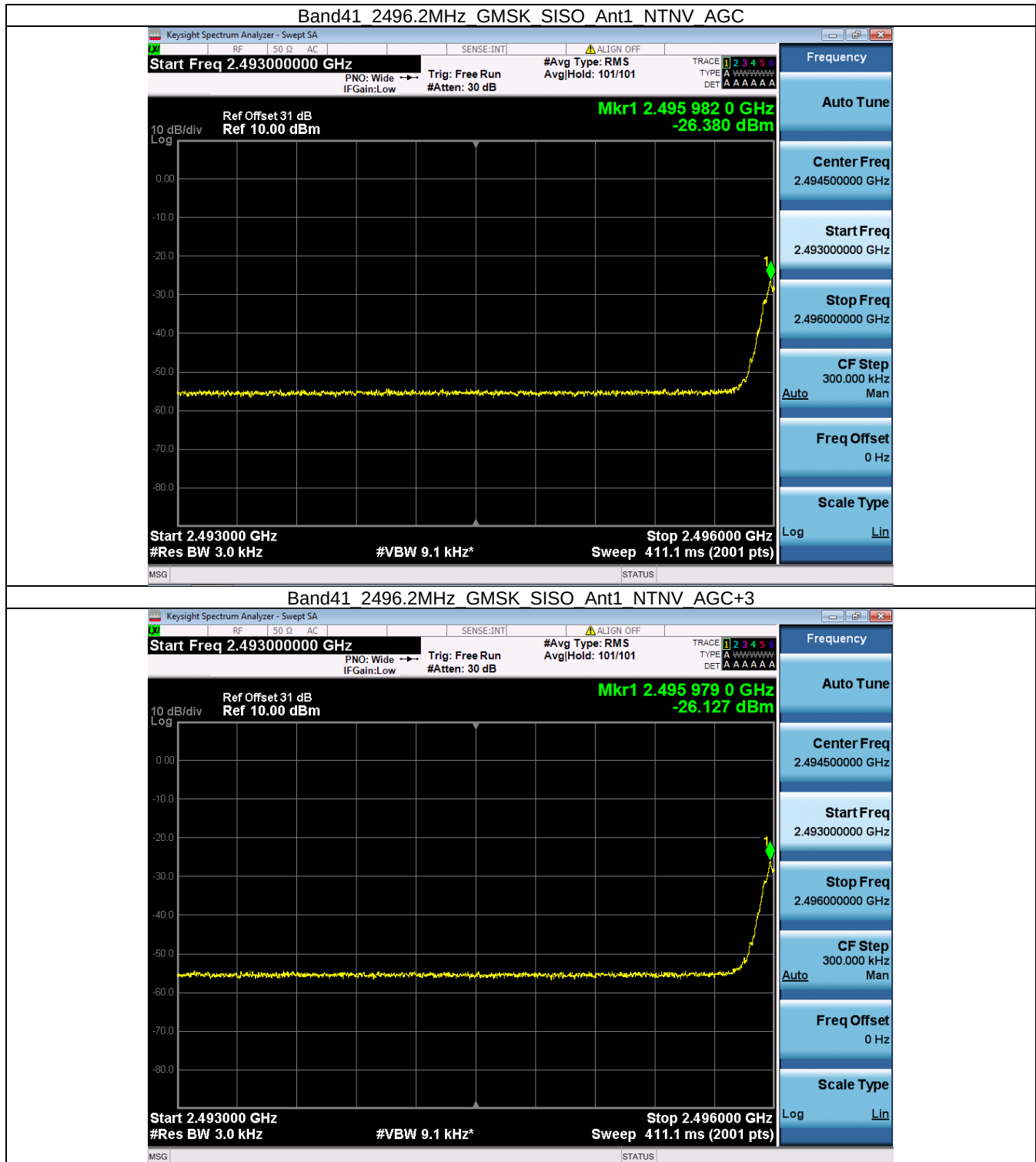


		2.9	2640	HCH	SISO	1	-23.347	Refer To Test Graph	Pass
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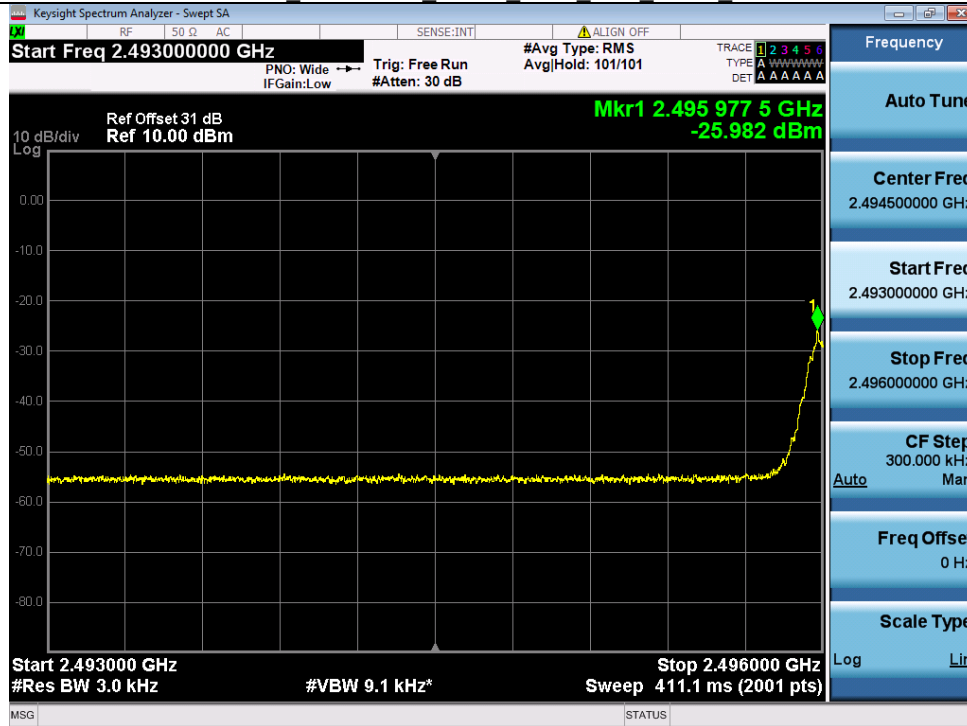
Note: EUT supports 4X4 MIMO, with 4 antenna ports having the same power. The test results show that the single antenna port has a margin of over 6dB, so the 4x4 MIMO test results determine the pass.

5.2 Test Graph

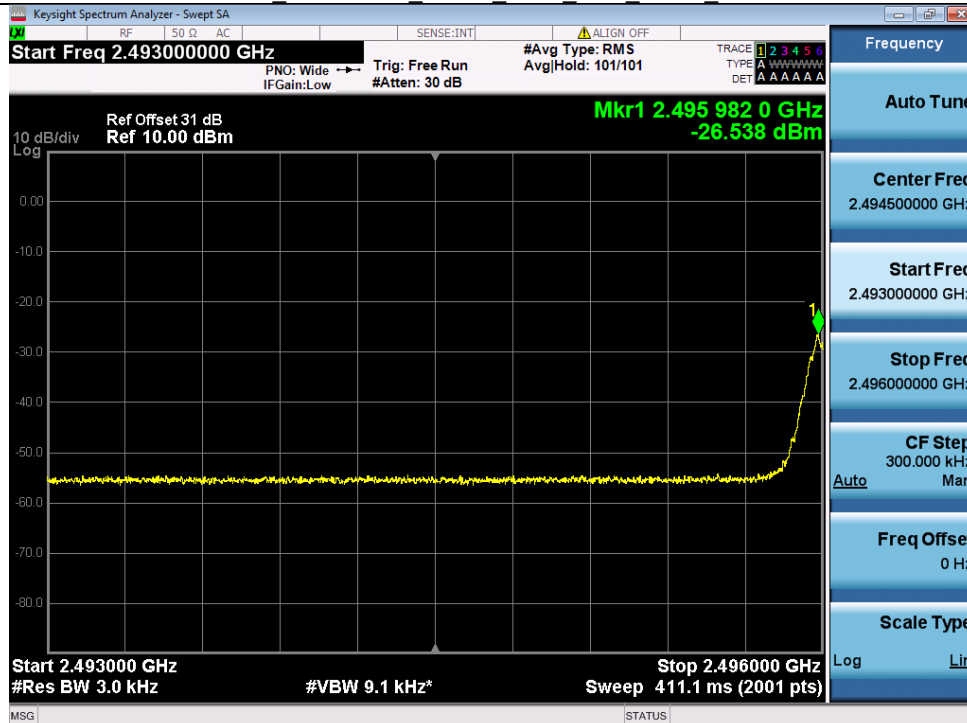
5.2.1 Band41



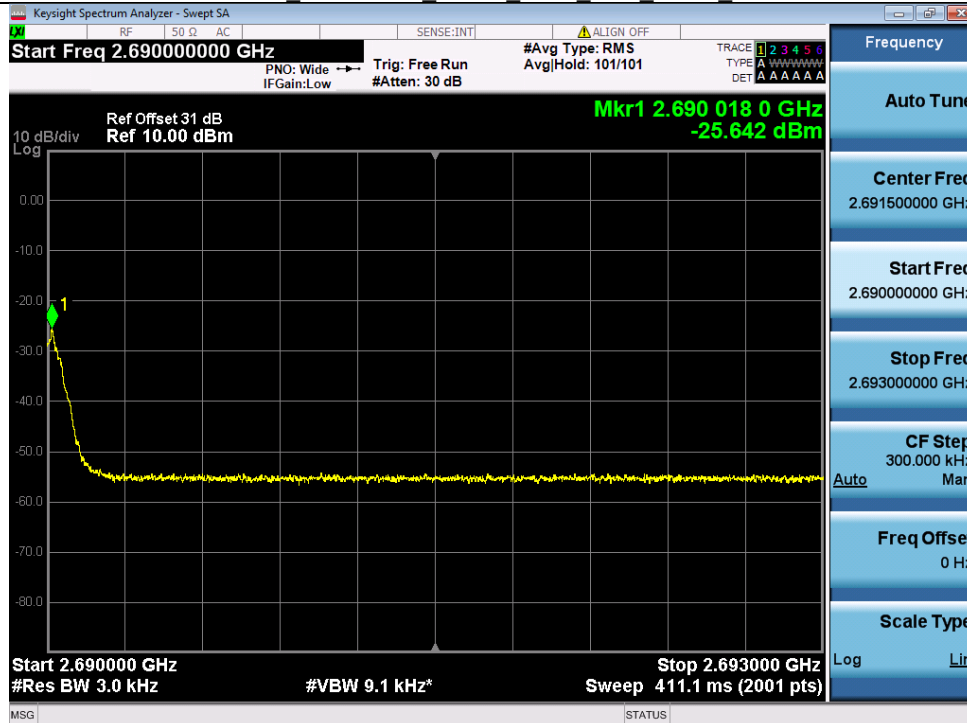
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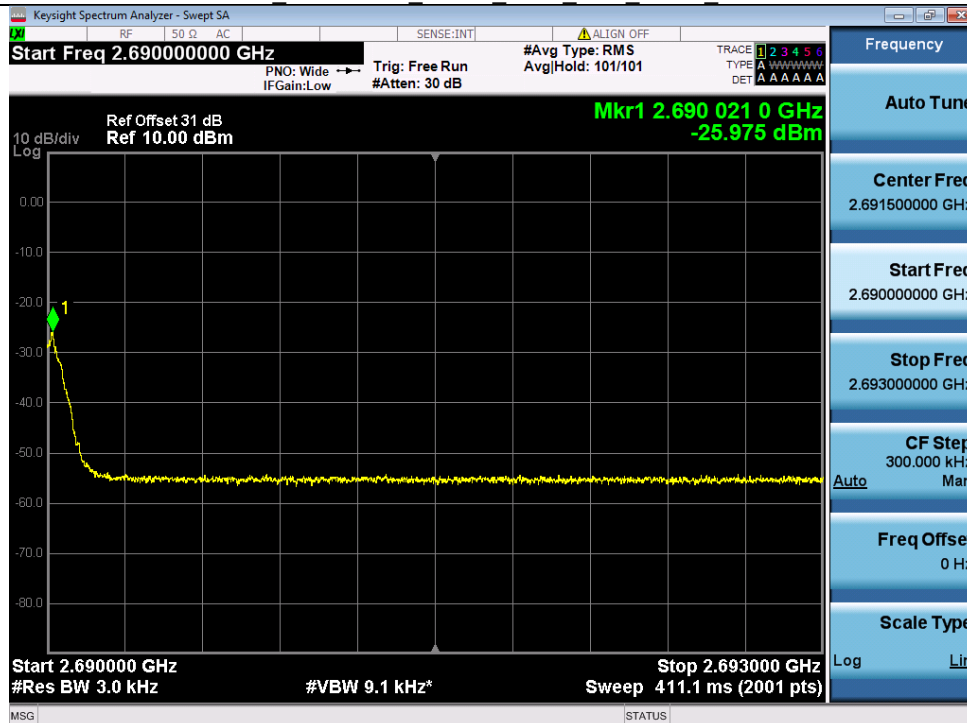
Band41_2496.2MHz_GMSK_SISO_Ant1_NTNV_AGC+3



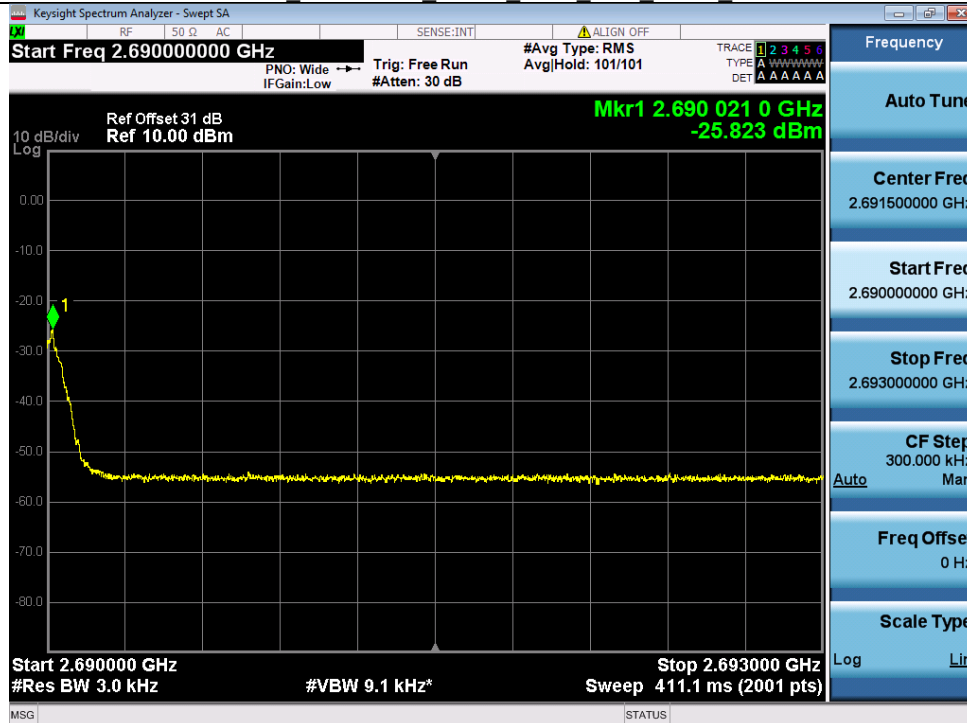
Band41 2689.8MHz_GMSK_SISO_Ant1_NTNV_AGC



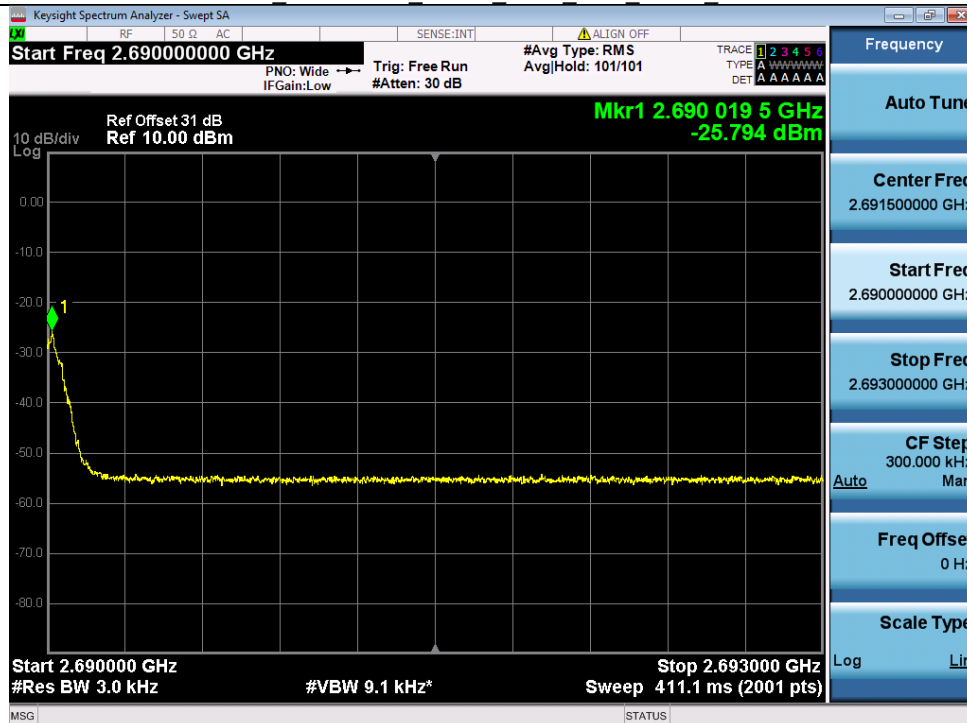
Band41 2689.8MHz_GMSK_SISO_Ant1_NTNV_AGC+3



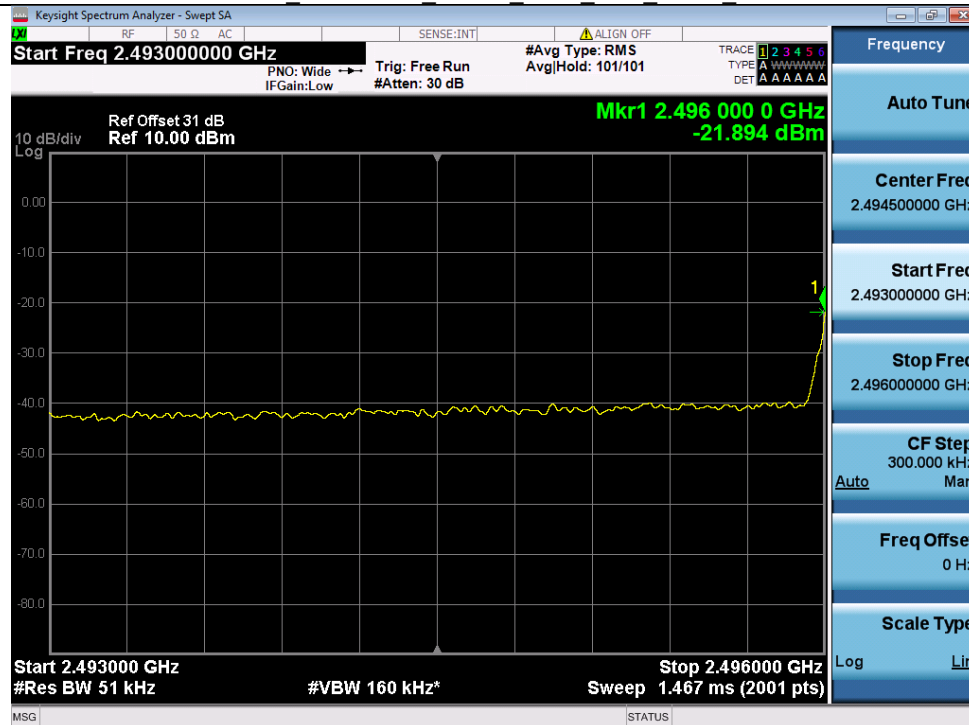
Band41 2689.8MHz_GMSK_SISO_Ant1_NTNV_AGC



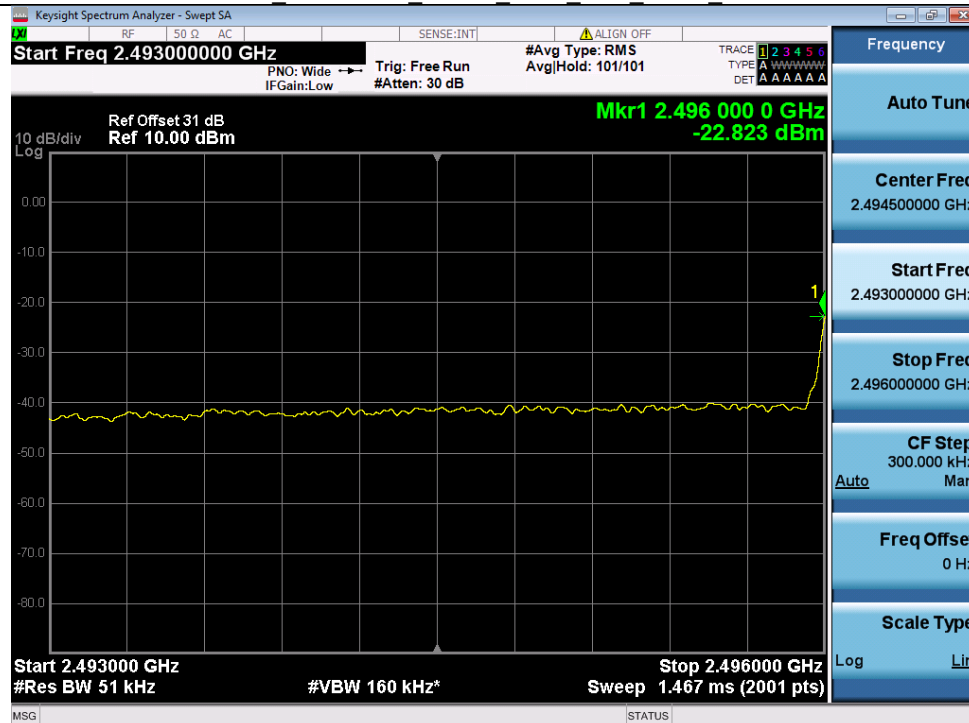
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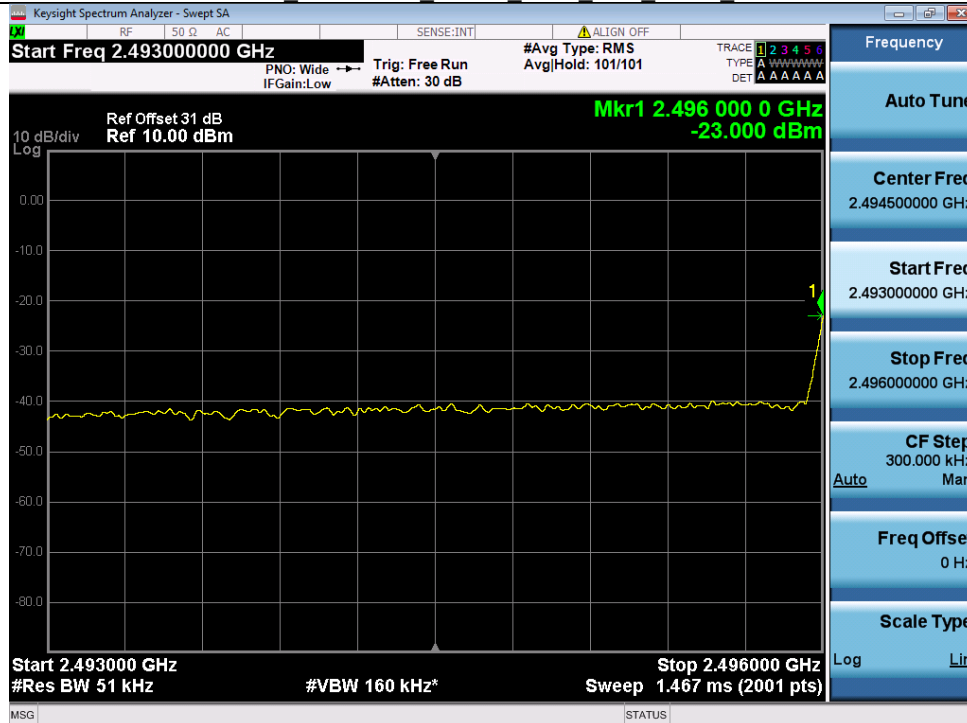
Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV_AGC



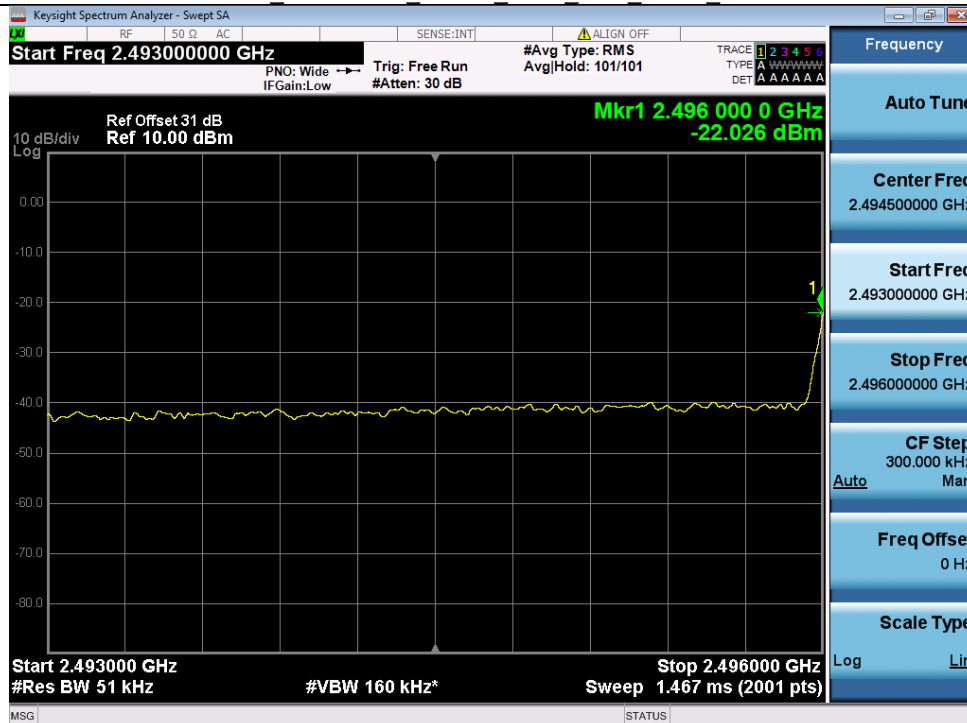
Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



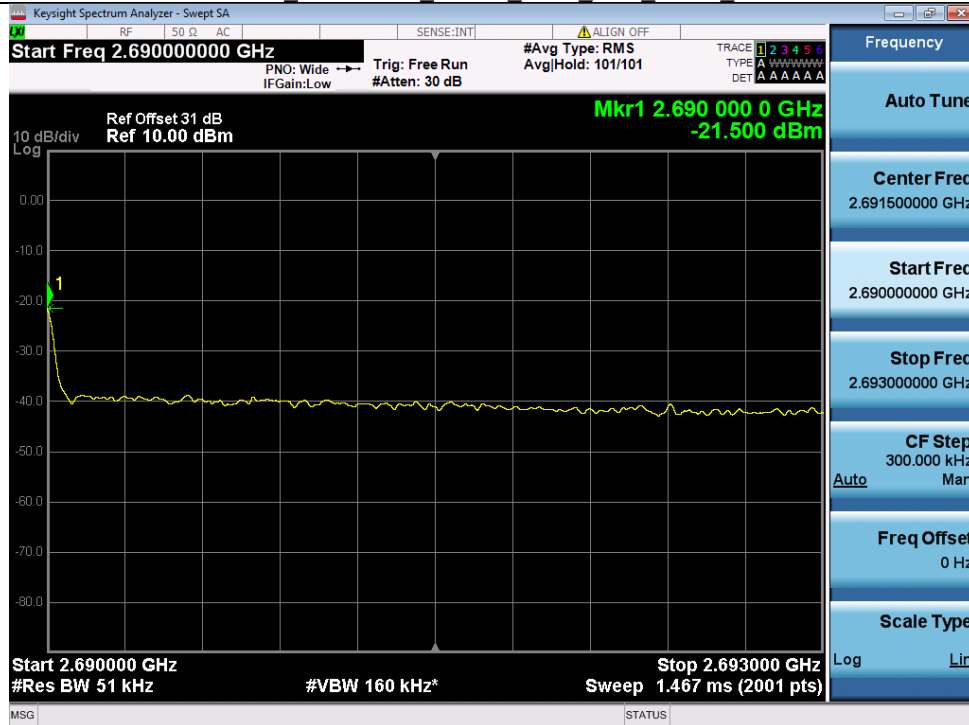
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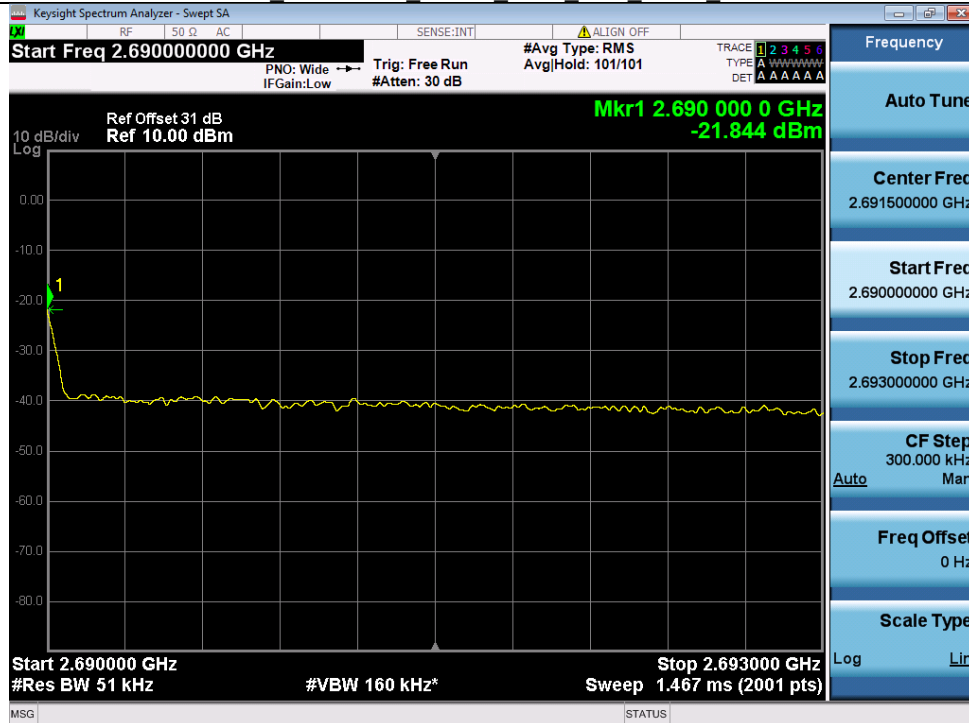
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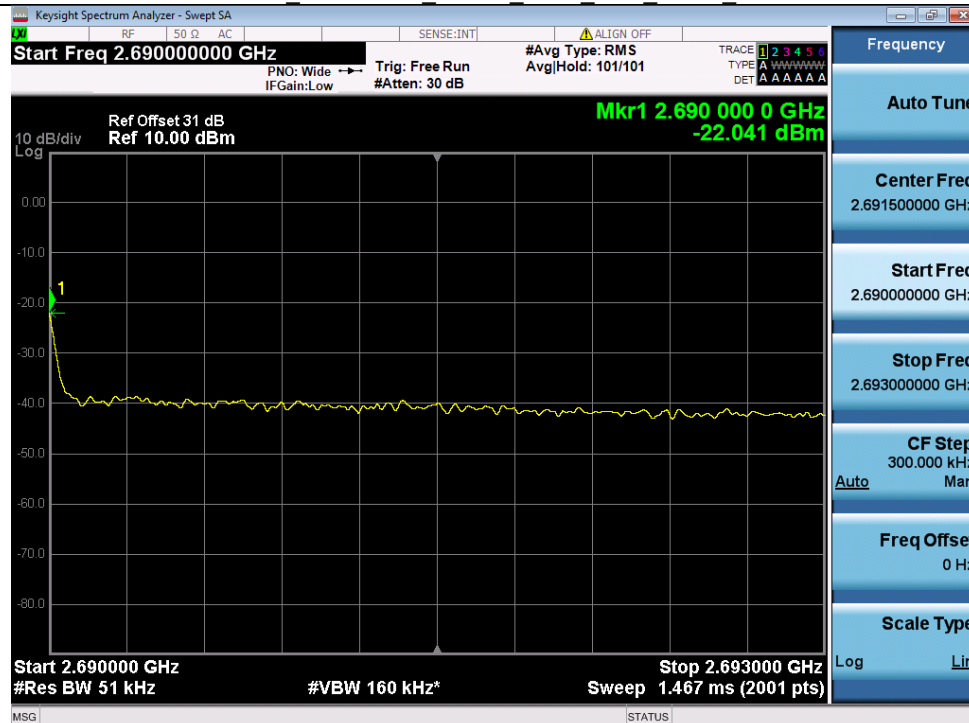
Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV_AGC



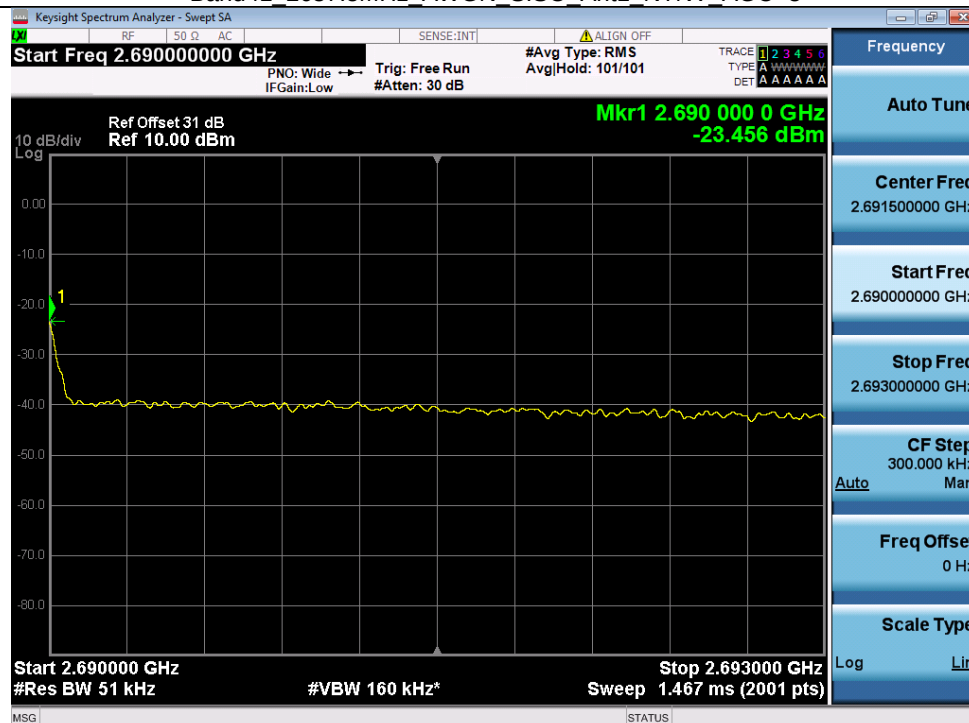
Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



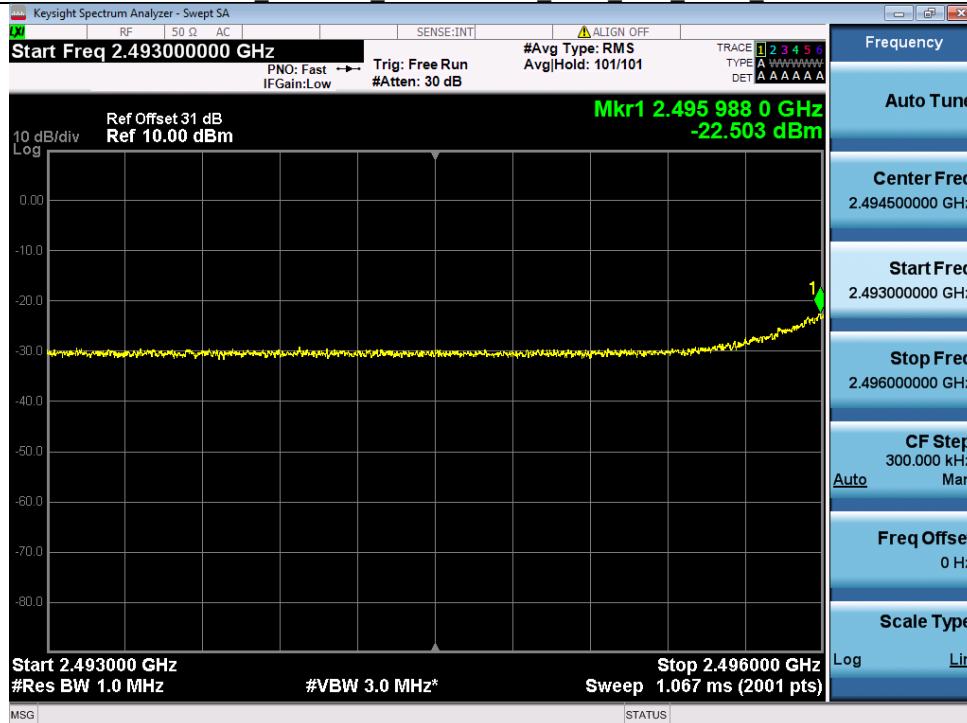
Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV_AGC



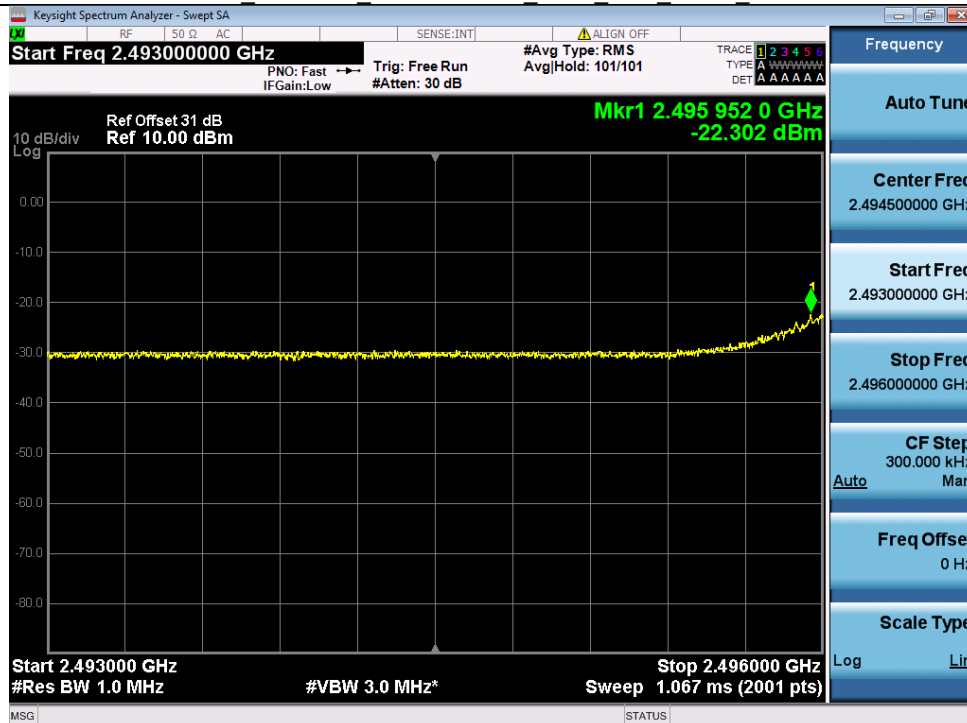
Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



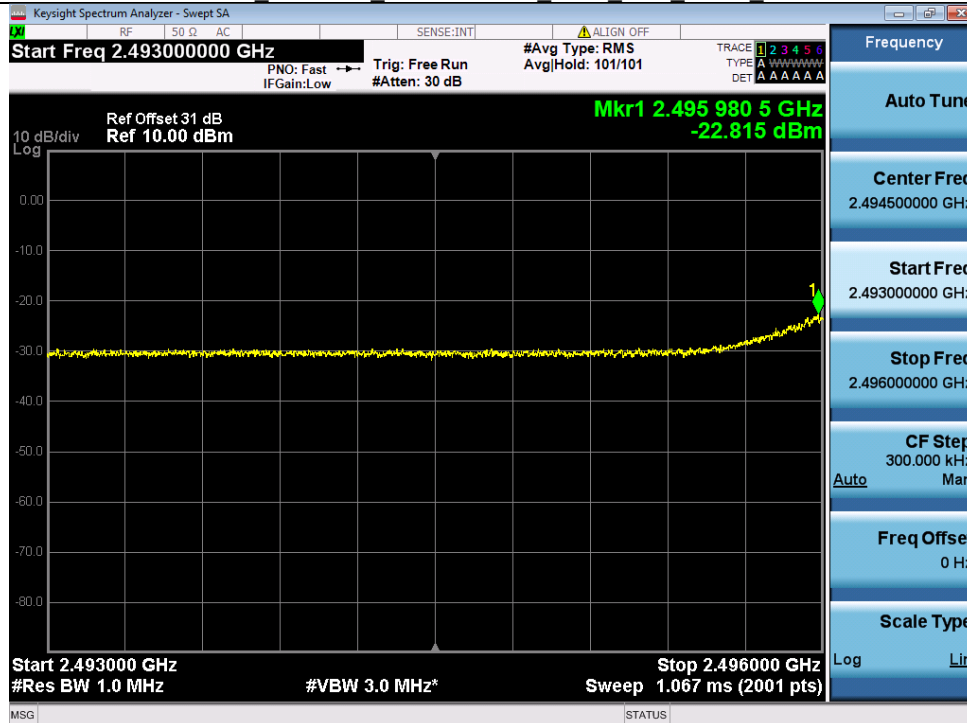
Band41 2546MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



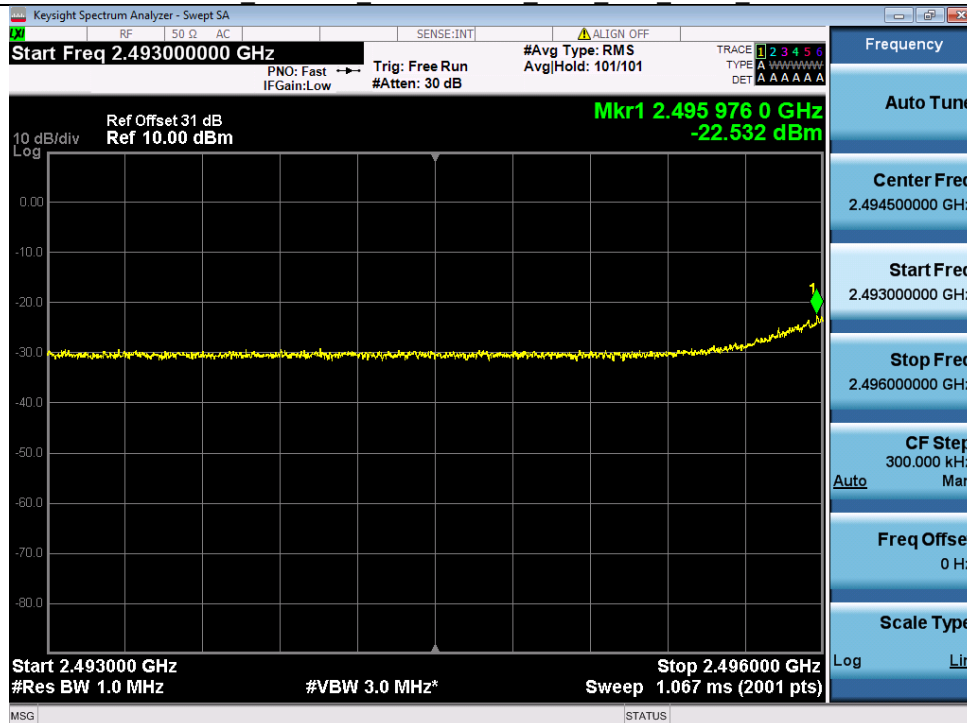
Band41 2546MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



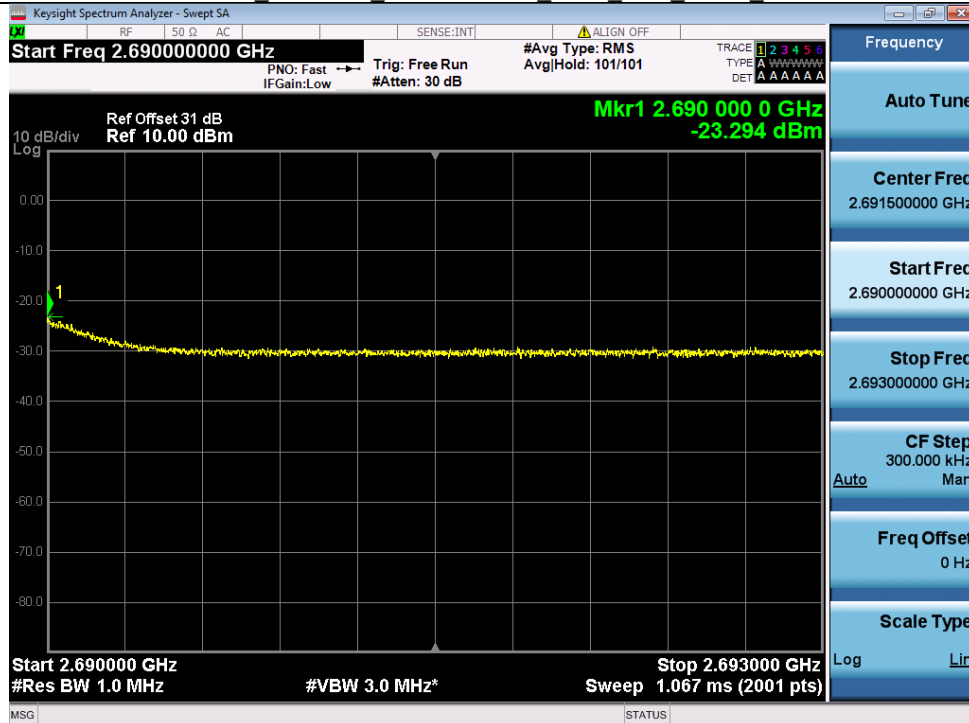
Band41 2546MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



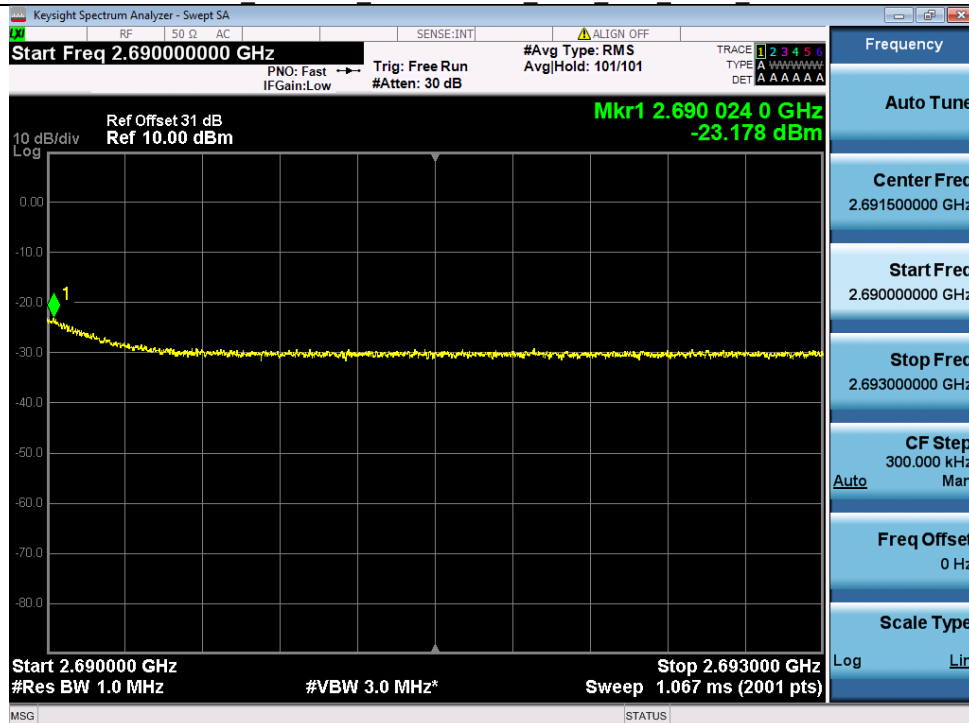
Band41 2546MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



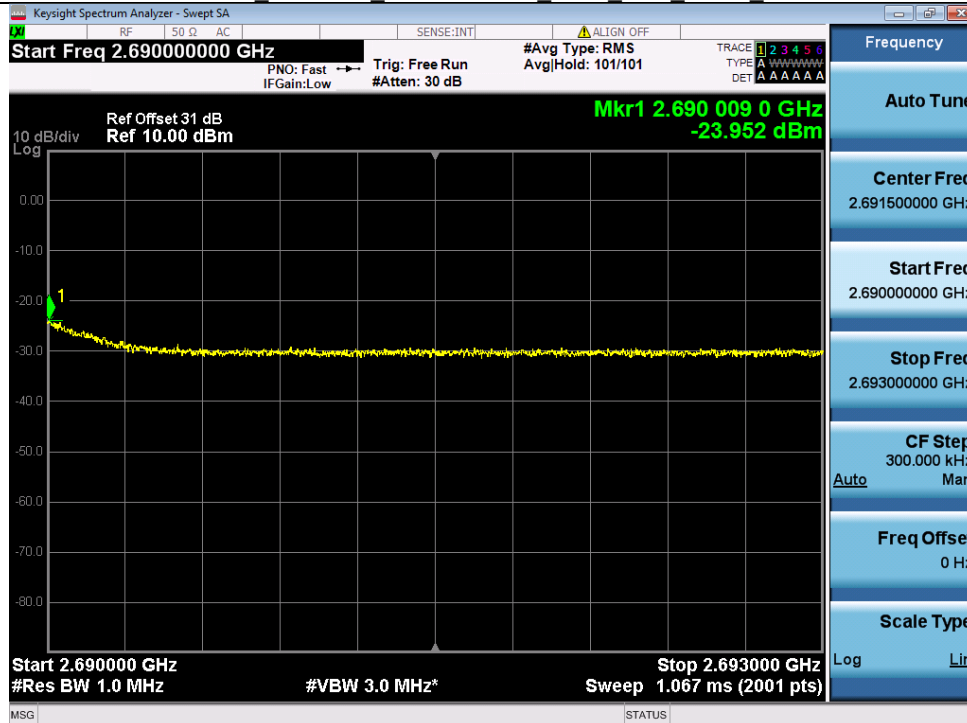
Band41 2640MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



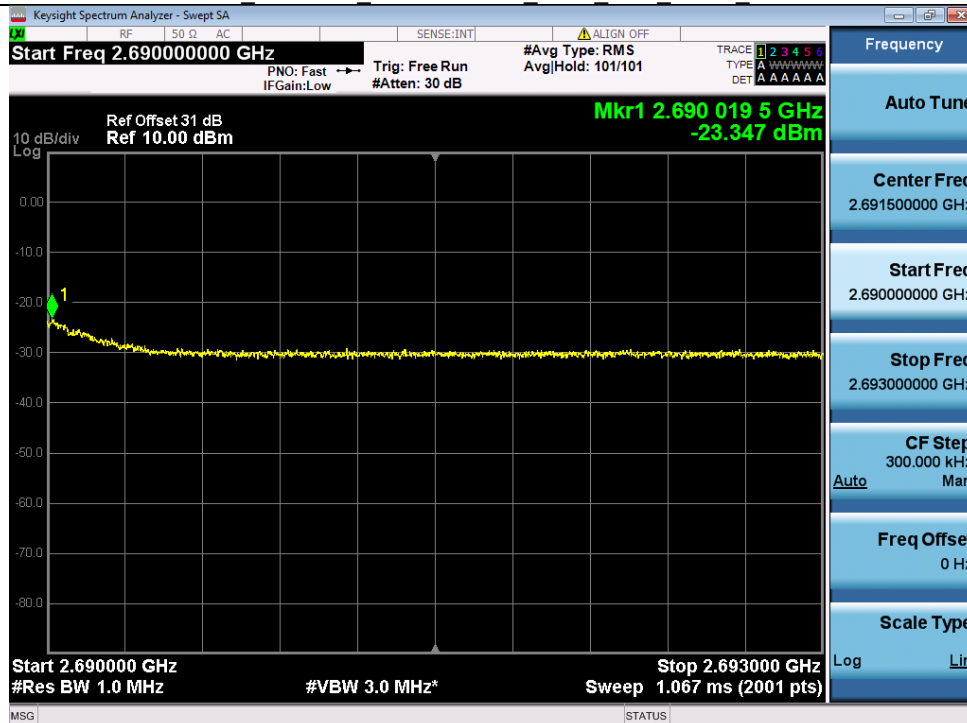
Band41 2640MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



Band41 2640MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



Band41 2640MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



6. Spurious emissions

6.1 Test Result

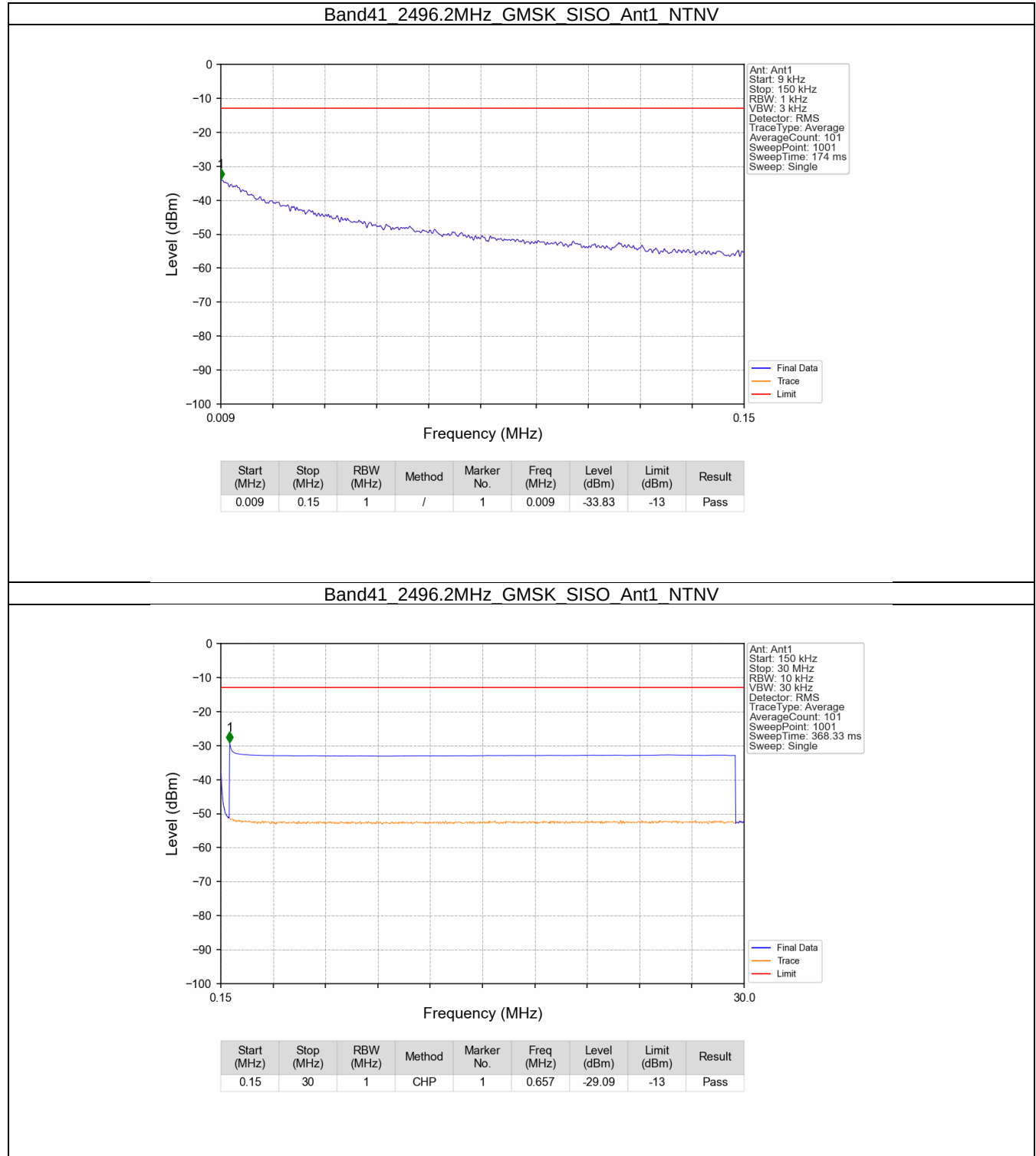
6.1.1 Band41

Band: 41 / NTVN								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
GMSK 0.2MHz	-0.1	2496.2	LCH	SISO	1	Refer To Test Graph		Pass
		2593	MCH	SISO	1	Refer To Test Graph		Pass
		2689.8	HCH	SISO	1	Refer To Test Graph		Pass
AWGN 5MHz	-0.1	2498.5	LCH	SISO	1	Refer To Test Graph		Pass
		2593	MCH	SISO	1	Refer To Test Graph		Pass
		2687.5	HCH	SISO	1	Refer To Test Graph		Pass
AWGN 100MHz	-0.1	2546	LCH	SISO	1	Refer To Test Graph		Pass
		2593	MCH	SISO	1	Refer To Test Graph		Pass
		2640	HCH	SISO	1	Refer To Test Graph		Pass

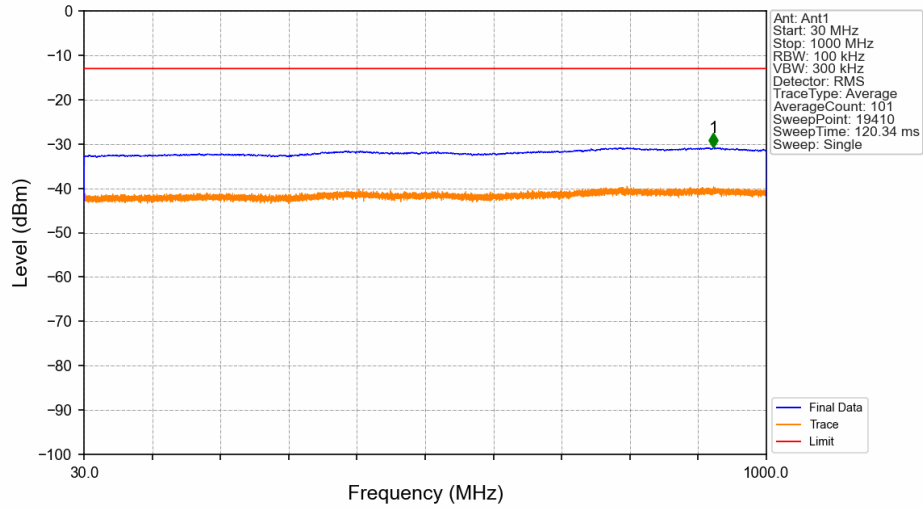
Note: EUT supports 4X4 MIMO, with 4 antenna ports having the same power. The test results show that the single antenna port has a margin of over 6dB, so the 4x4 MIMO test results determine the pass.

6.2 Test Graph

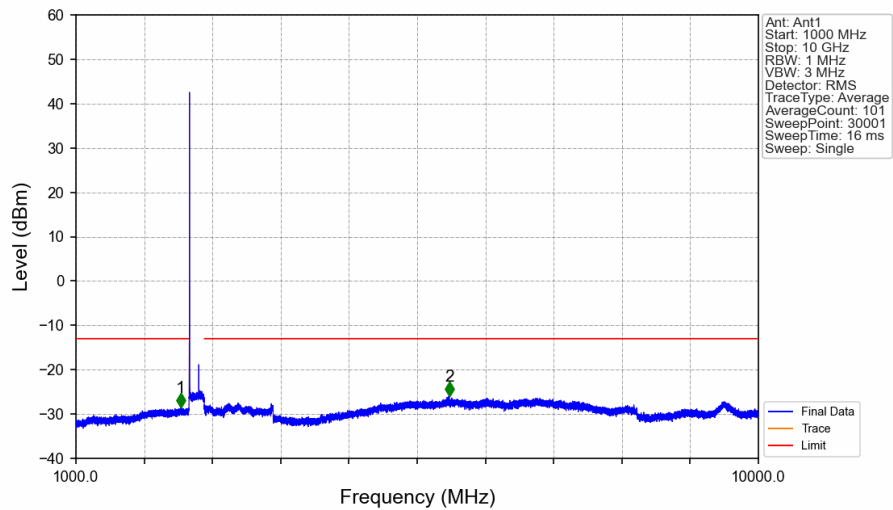
6.2.1 Band41



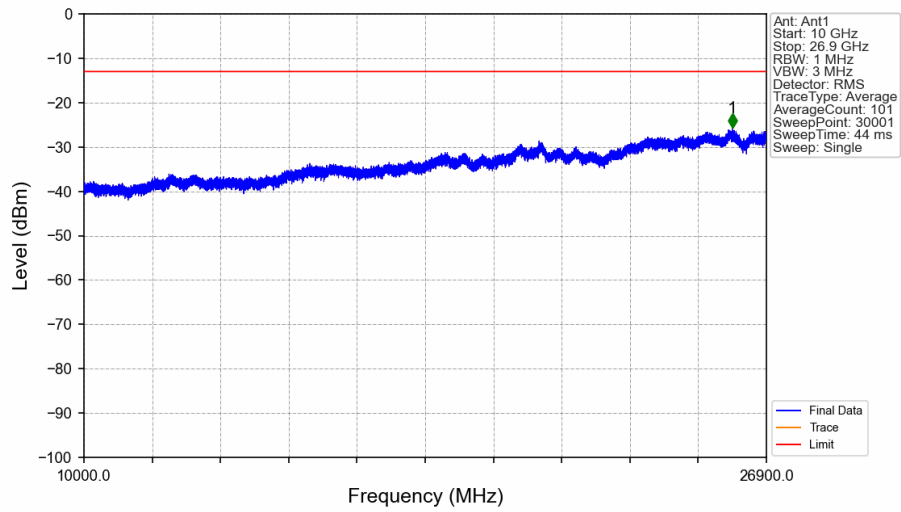
Band41_2496.2MHz_GMSK_SISO_Ant1_NTNV



Band41_2496.2MHz_GMSK_SISO_Ant1_NTNV

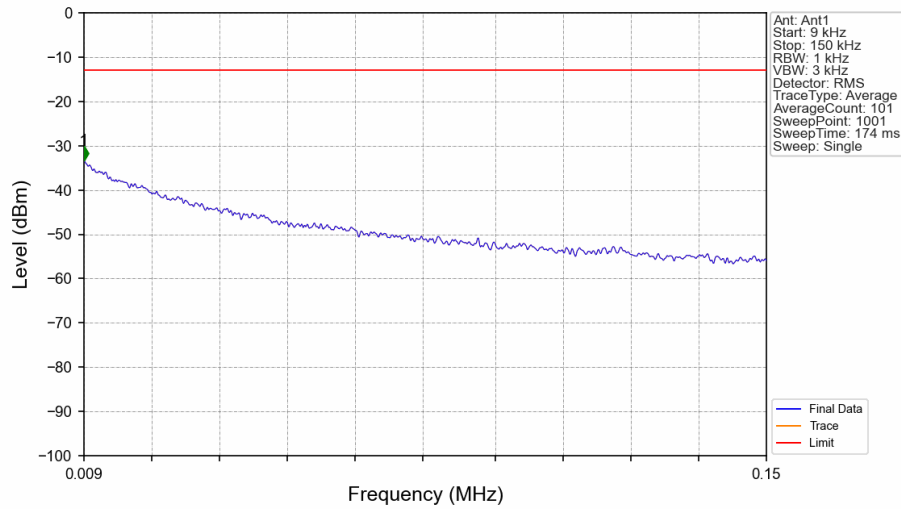


Band41_2496.2MHz_GMSK_SISO_Ant1_NTNV



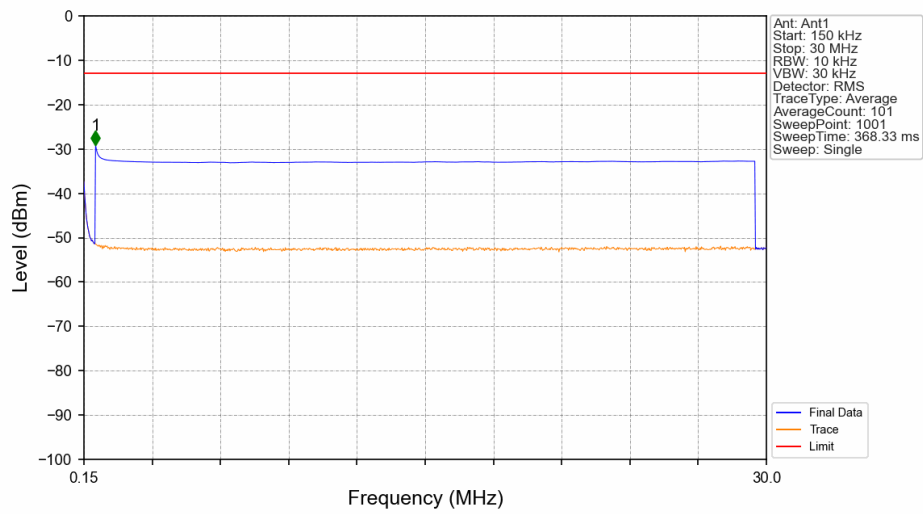
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	26055.000	-25.55	-13	Pass

Band41_2593MHz_GMSK_SISO_Ant1_NTNV

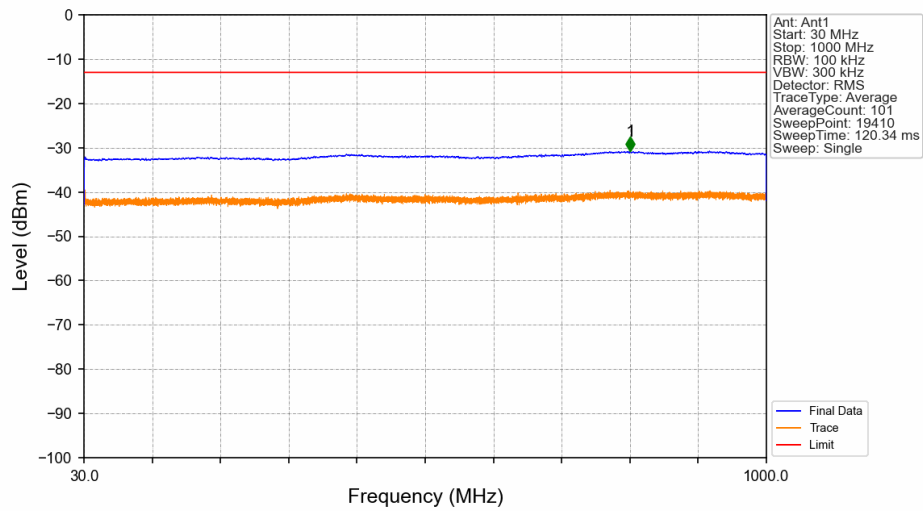


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	1	/	1	0.009	-33.20	-13	Pass

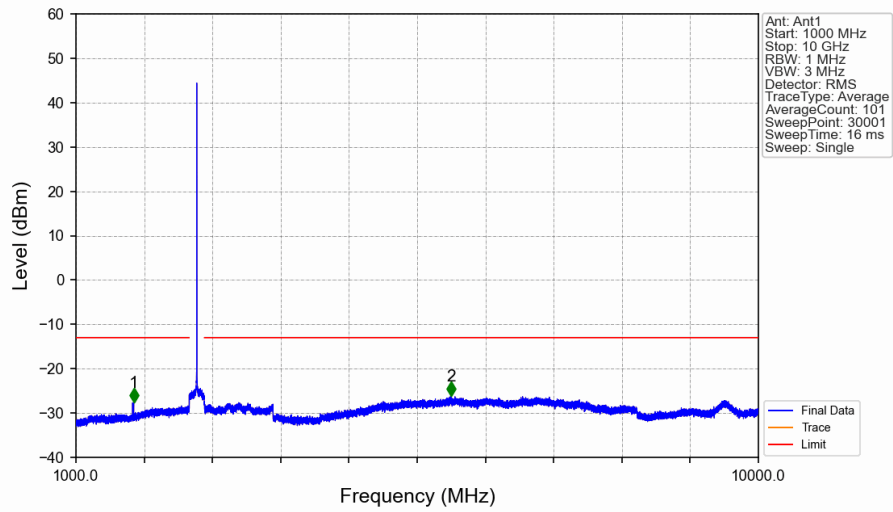
Band41_2593MHz_GMSK_SISO_Ant1_NTNV



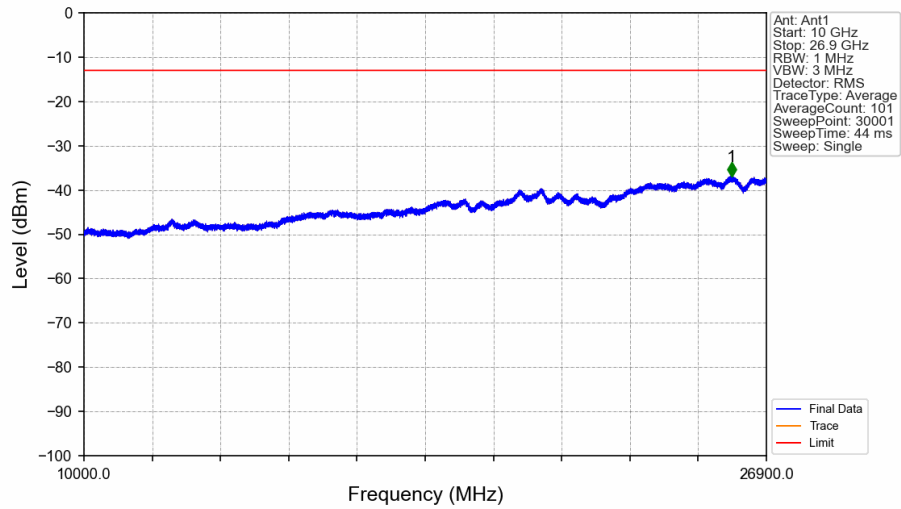
Band41_2593MHz_GMSK_SISO_Ant1_NTNV



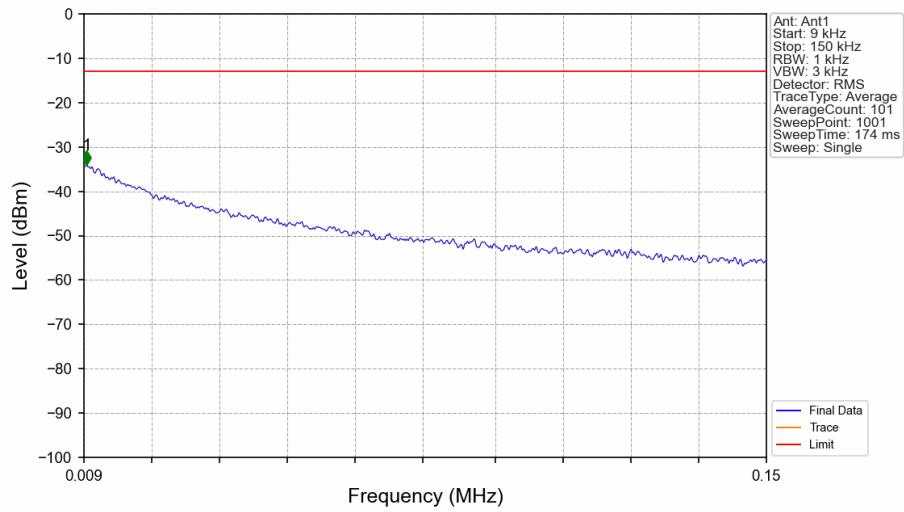
Band41_2593MHz_GMSK_SISO_Ant1_NTNV



Band41_2593MHz_GMSK_SISO_Ant1_NTNV

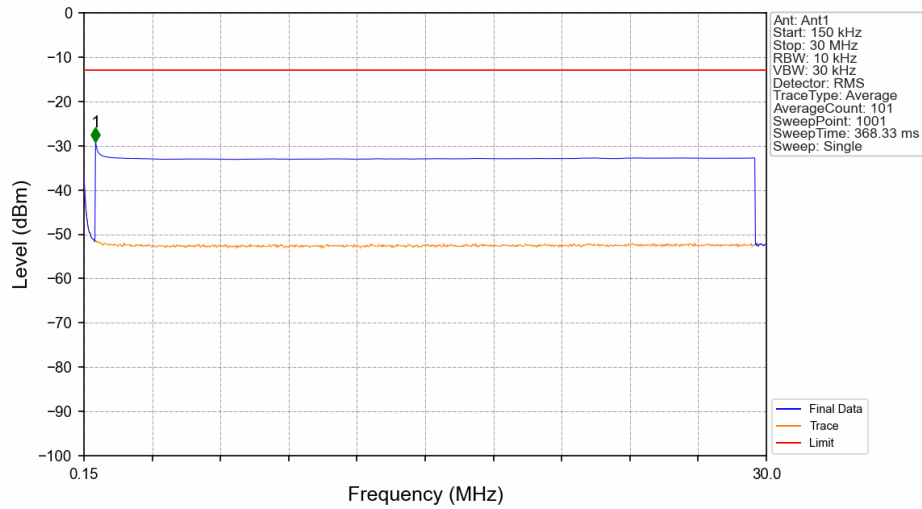


Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV



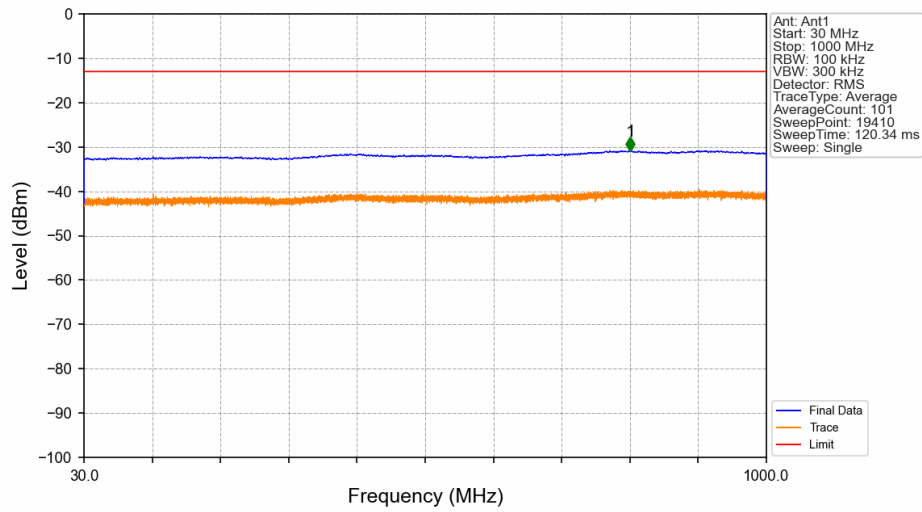
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	1	/	1	0.010	-34.01	-13	Pass

Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV

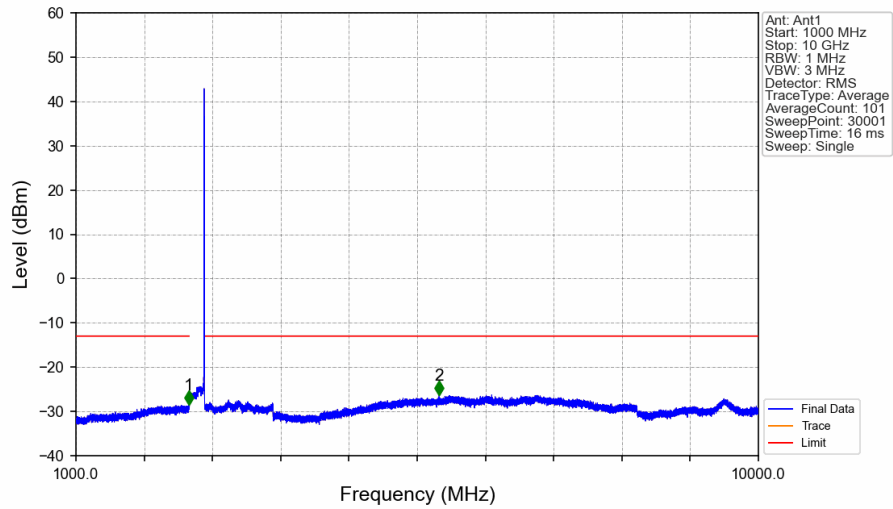


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.15	30	1	CHP	1	0.657	-29.01	-13	Pass

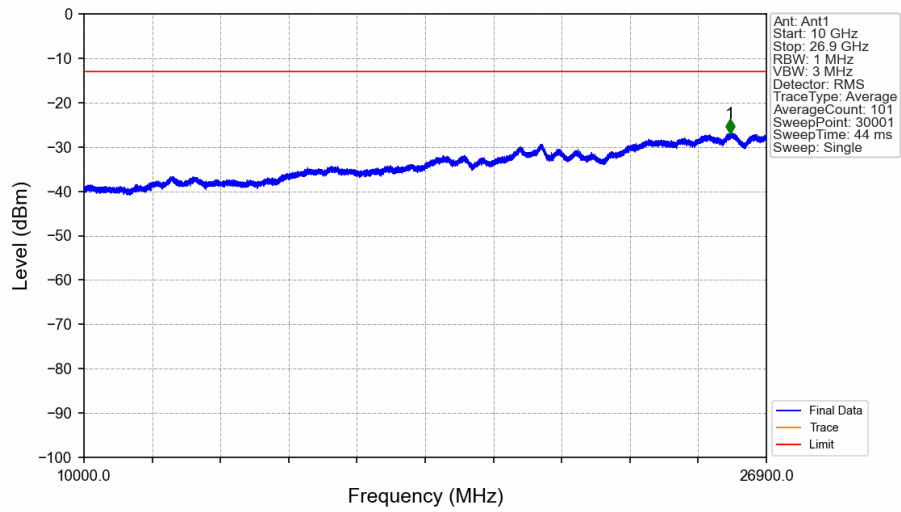
Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV



Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV

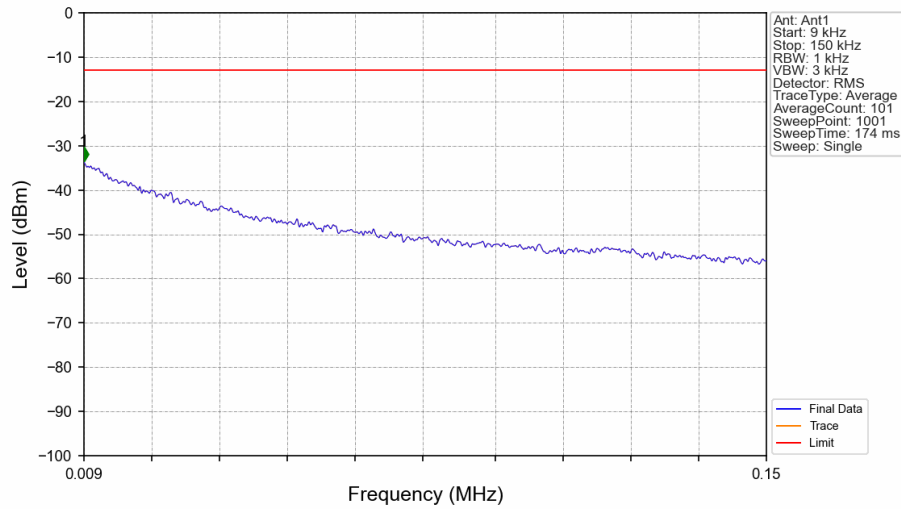


Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV



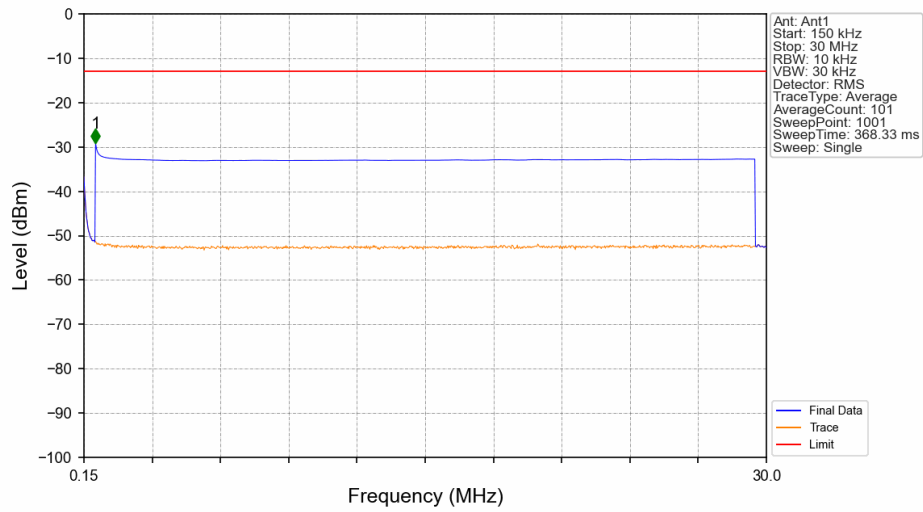
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	25997.540	-26.85	-13	Pass

Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV

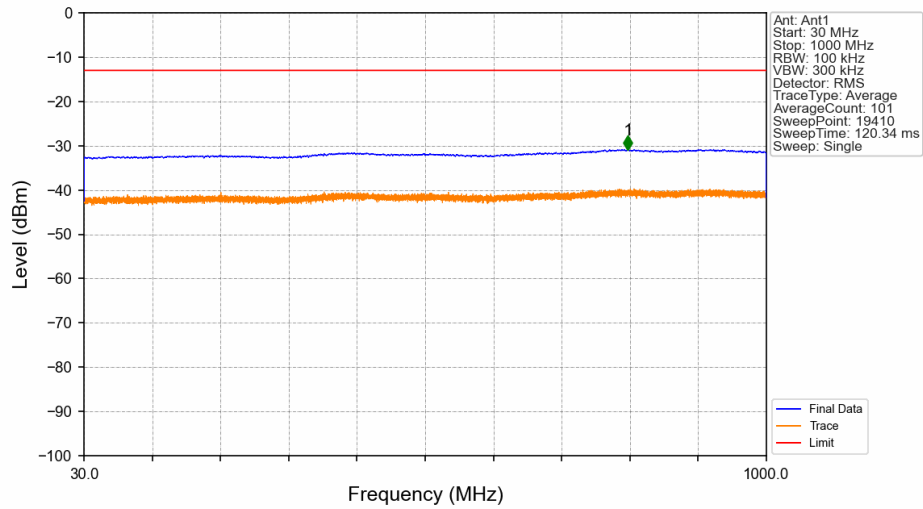


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	1	/	1	0.009	-33.51	-13	Pass

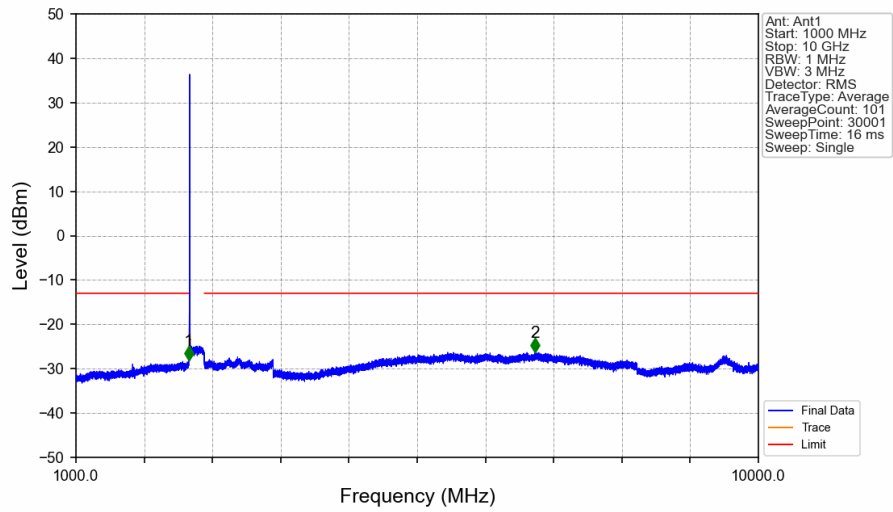
Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV



Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV

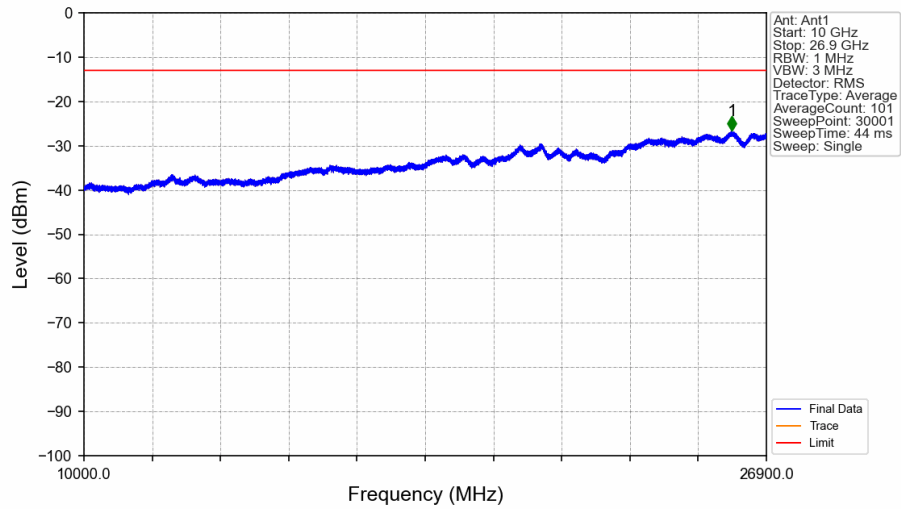


Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV



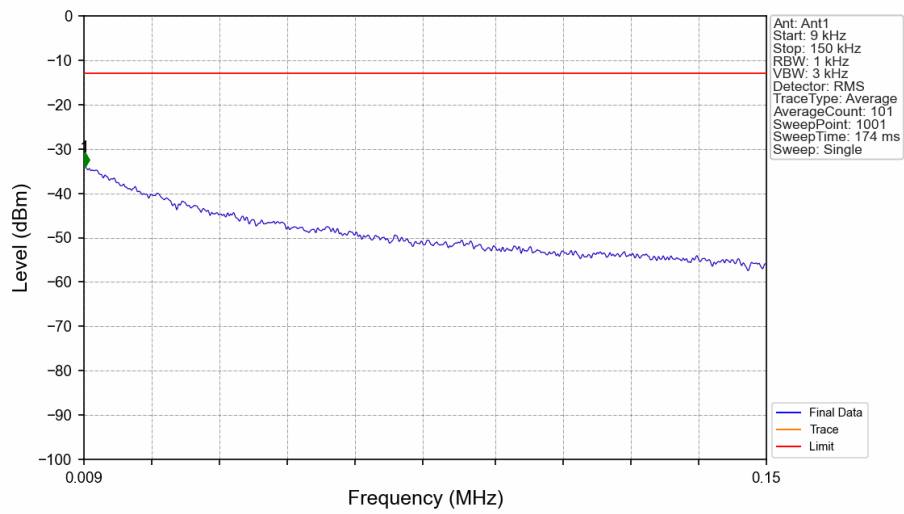
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	10000	1	/	1	2489.500	-28.14	-13	Pass
10000	2696	1	/	/	/	/	/	/
2696	10000	1	/	2	7054.000	-26.28	-13	Pass

Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV



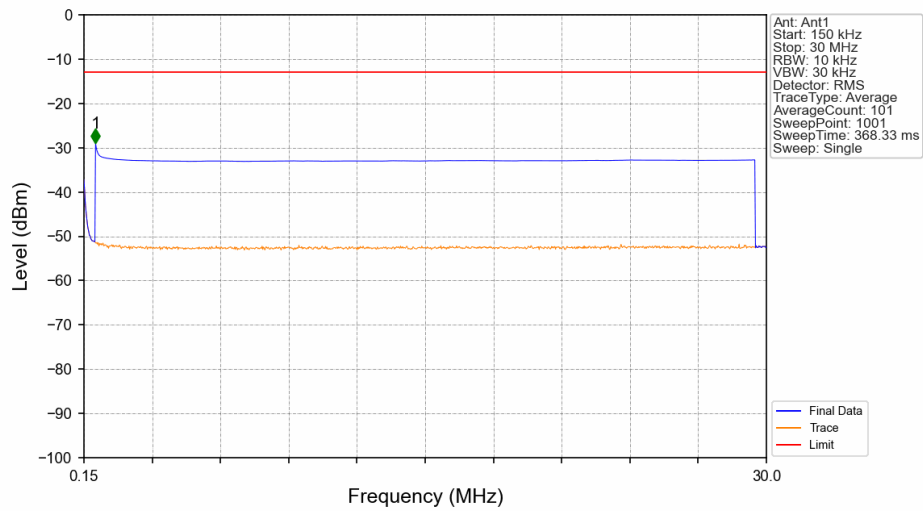
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	26048.240	-26.59	-13	Pass

Band41_2593MHz_AWGN_SISO_Ant1_NTNV



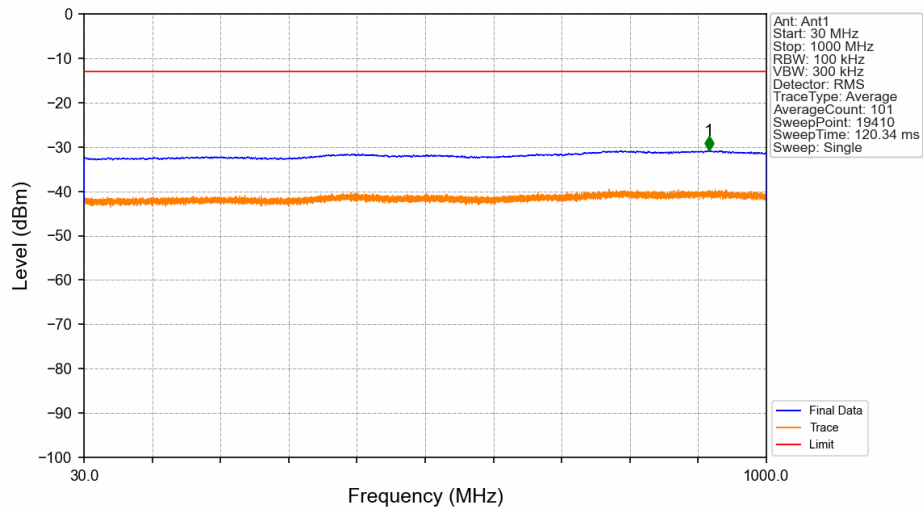
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	1	/	1	0.009	-33.99	-13	Pass

Band41_2593MHz_AWGN_SISO_Ant1_NTNV



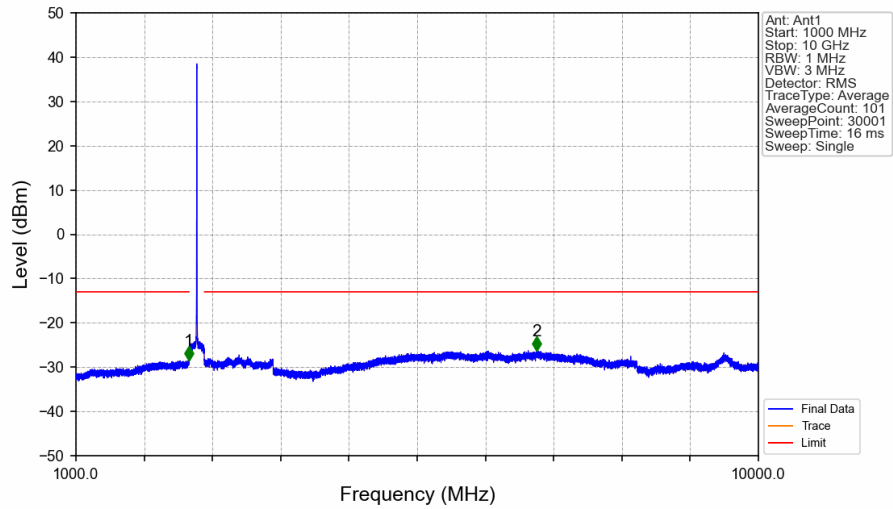
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.15	30	1	CHP	1	0.657	-28.95	-13	Pass

Band41_2593MHz_AWGN_SISO_Ant1_NTNV



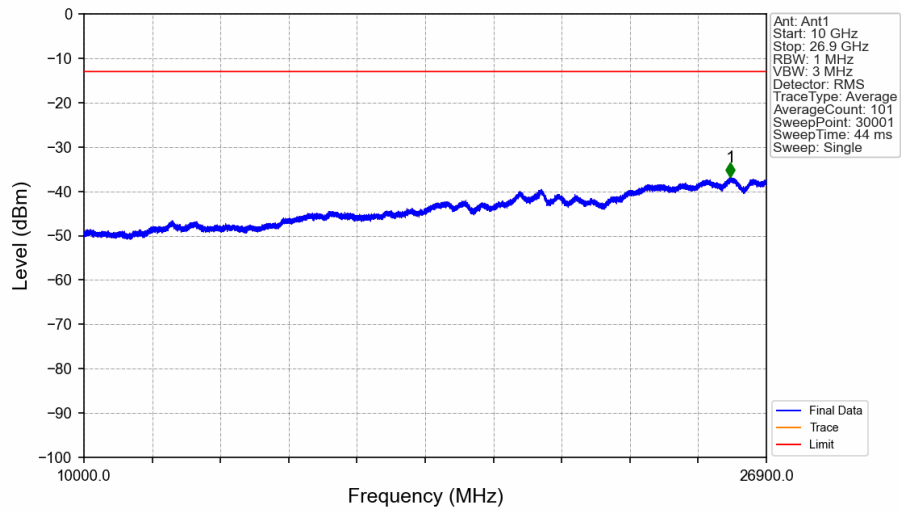
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	918.188	-30.80	-13	Pass

Band41_2593MHz_AWGN_SISO_Ant1_NTNV



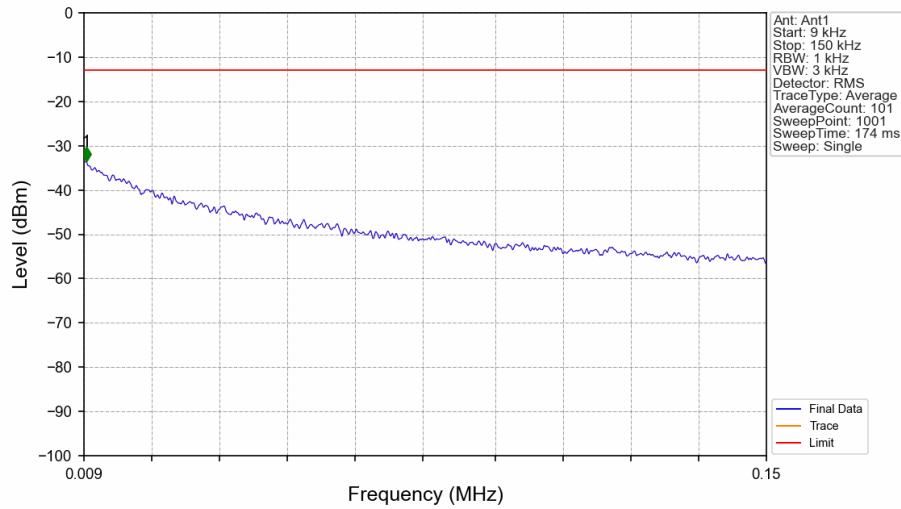
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	10000	1	/	1	2484.700	-28.46	-13	Pass
10000	2696	1	/	/	/	/	/	/
2696	10000	1	/	2	7078.000	-26.25	-13	Pass

Band41_2593MHz_AWGN_SISO_Ant1_NTNV



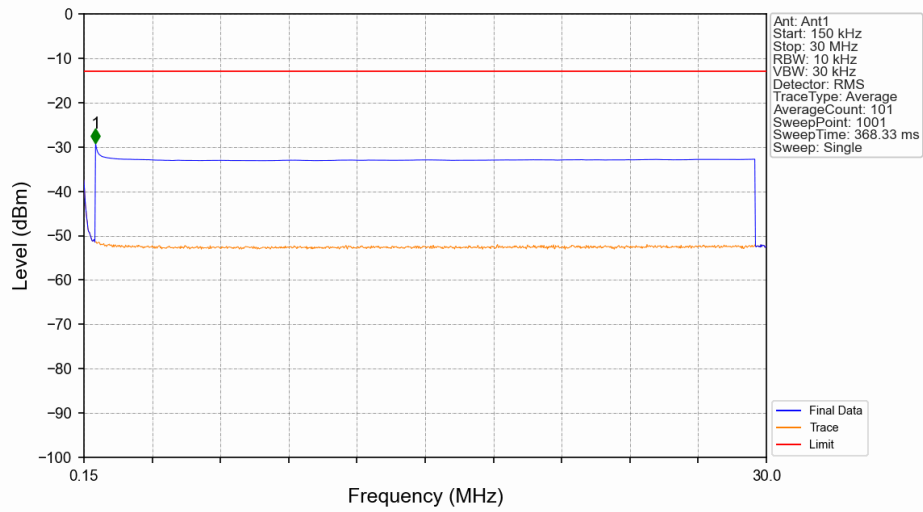
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	26003.173	-36.79	-13	Pass

Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV

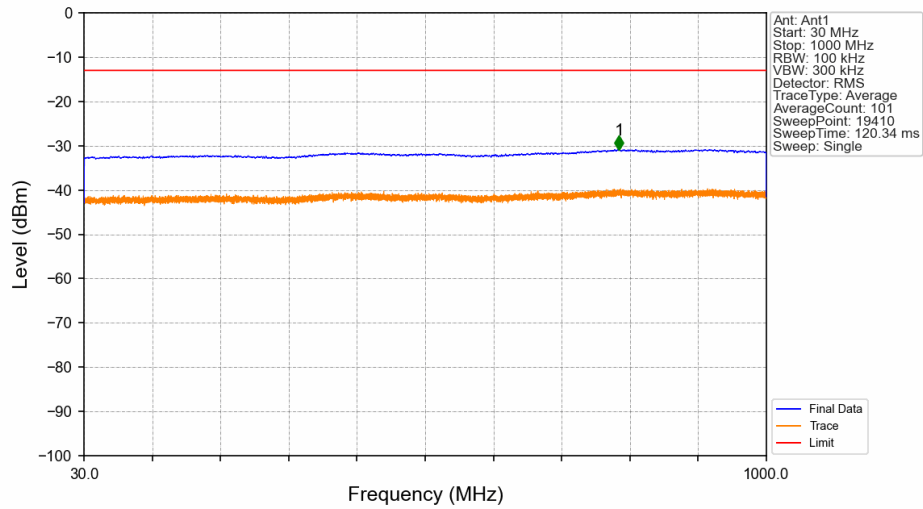


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	1	/	1	0.009	-33.54	-13	Pass

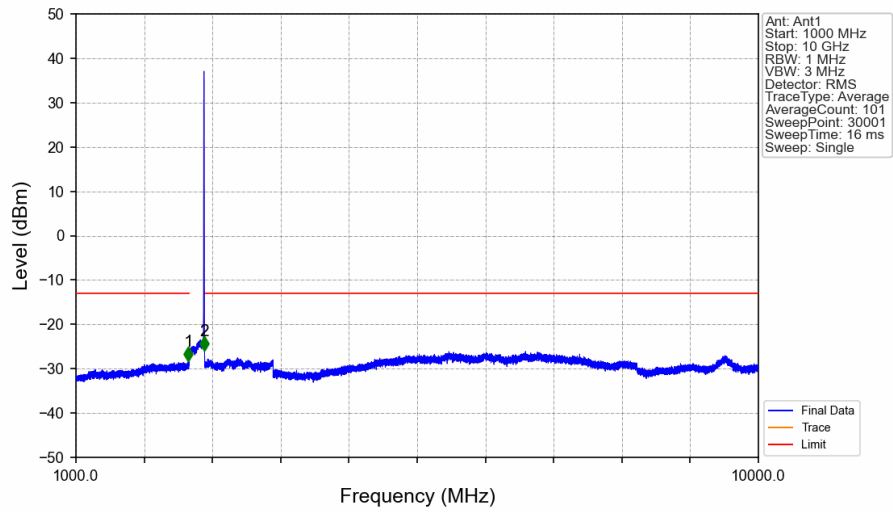
Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV



Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV

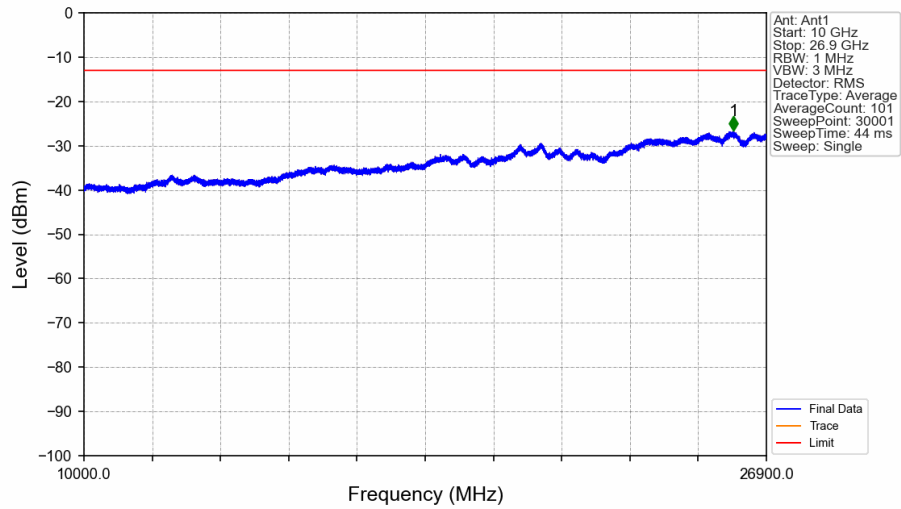


Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV



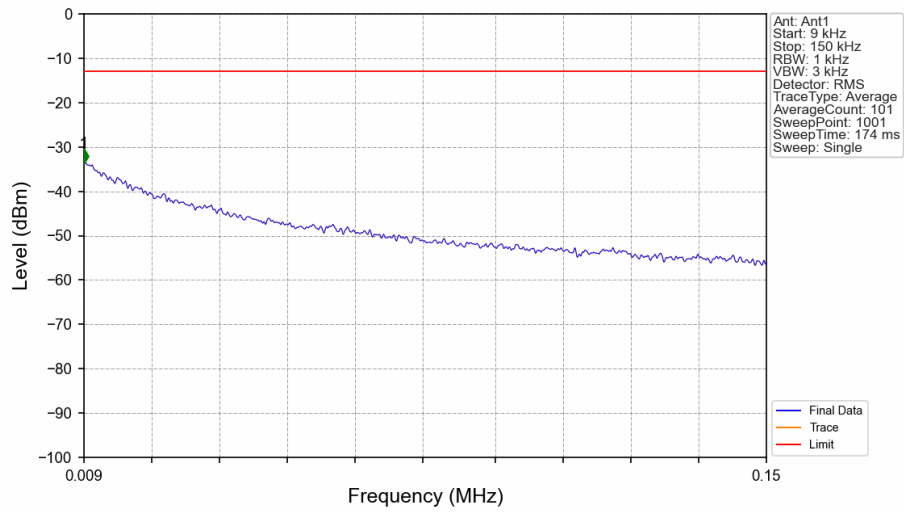
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	10000	1	/	1	2481.700	-28.33	-13	Pass
10000	2696	1	/	/	/	/	/	/
2696	10000	1	/	2	2696.200	-25.83	-13	Pass

Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV

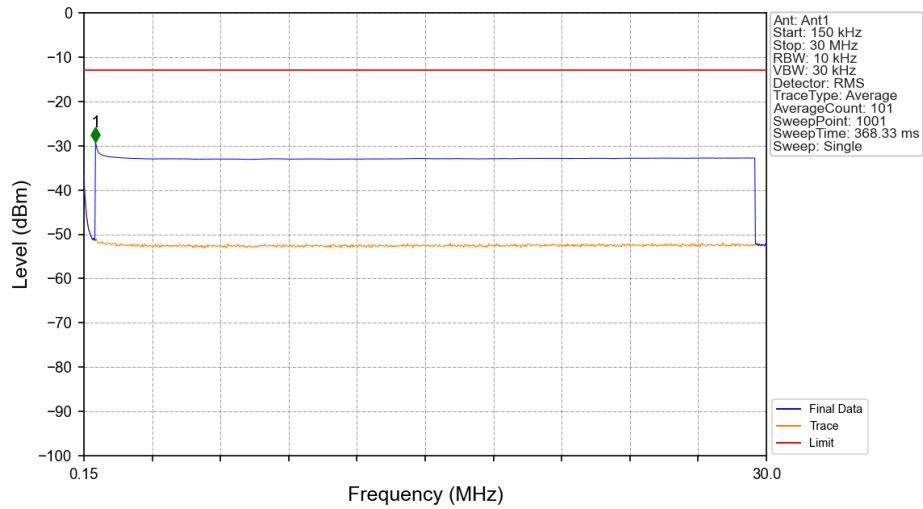


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	26088.800	-26.51	-13	Pass

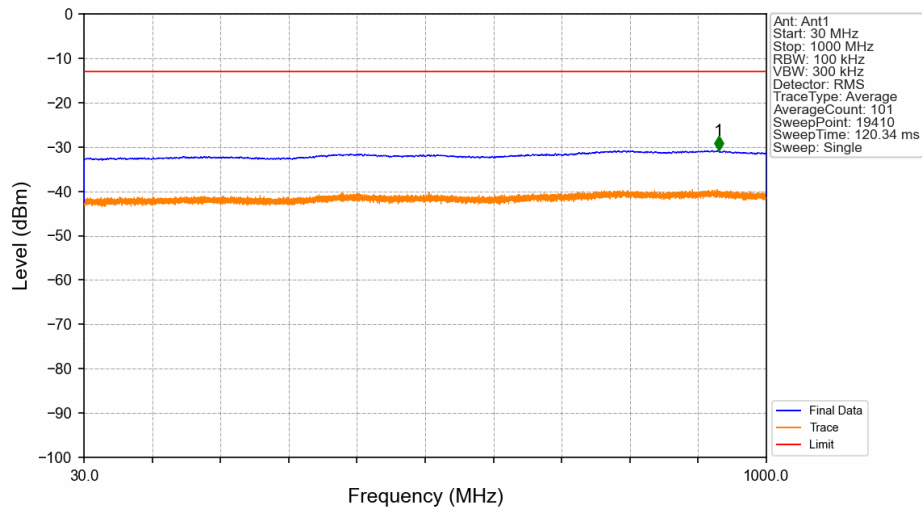
Band41_2546MHz_Broad100MHz_SISO_Ant1_NTNV



Band41_2546MHz_Broad100MHz_SISO_Ant1_NTNV

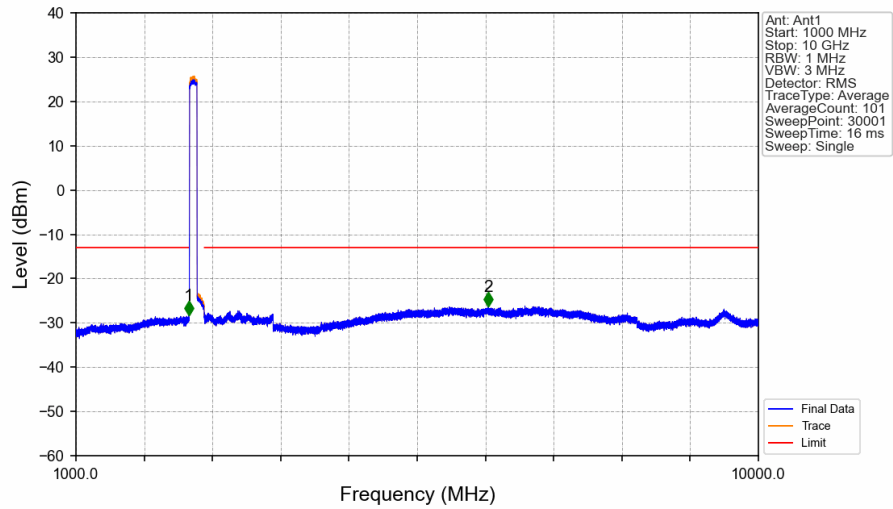


Band41_2546MHz_Broad100MHz_SISO_Ant1_NTNV



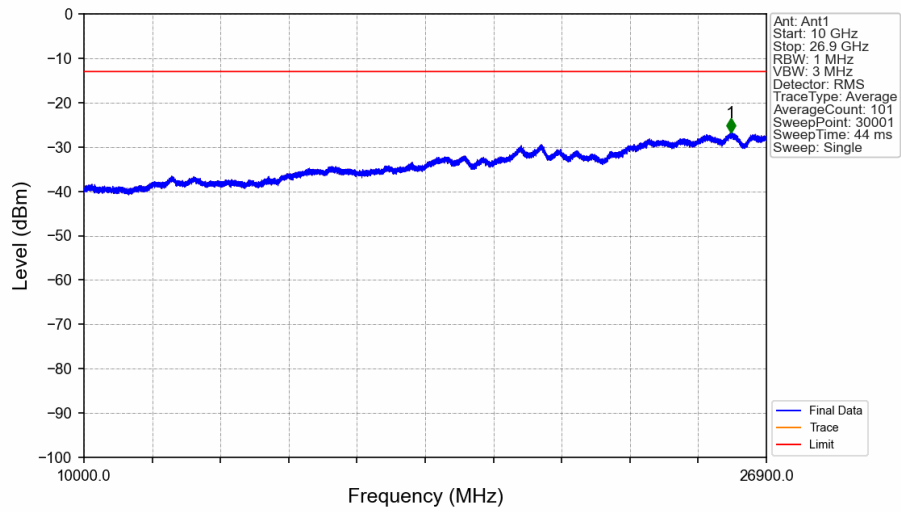
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	931.782	-30.69	-13	Pass

Band41_2546MHz_Broad100MHz_SISO_Ant1_NTNV



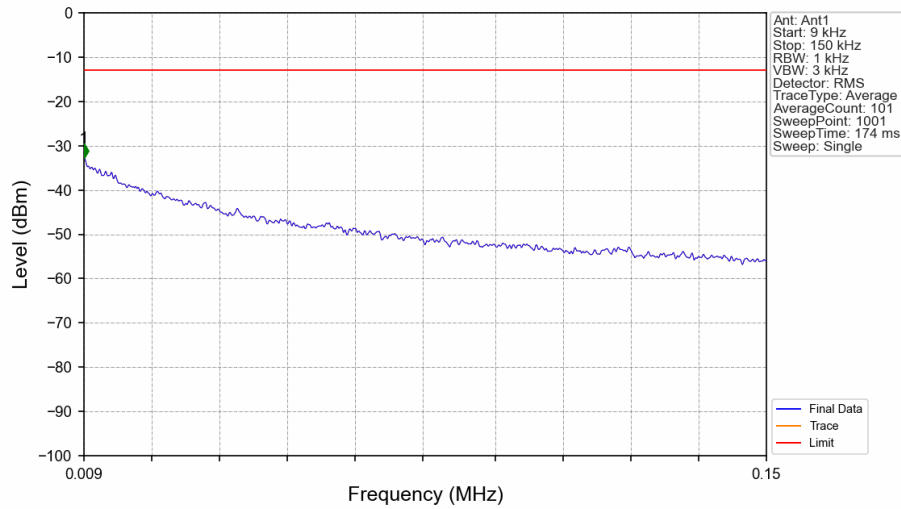
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	10000	1	/	1	2489.500	-28.30	-13	Pass
10000	2696	1.007	CHP	/	/	/	/	/
2696	10000	1	/	2	6437.500	-26.18	-13	Pass

Band41_2546MHz_Broad100MHz_SISO_Ant1_NTNV



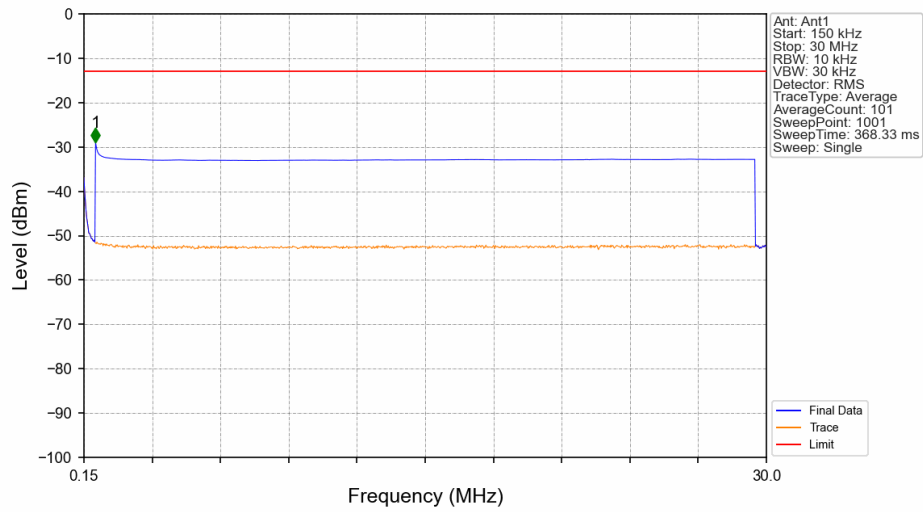
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	26021.763	-26.72	-13	Pass

Band41_2593MHz_Broad100MHz_SISO_Ant1_NTNV

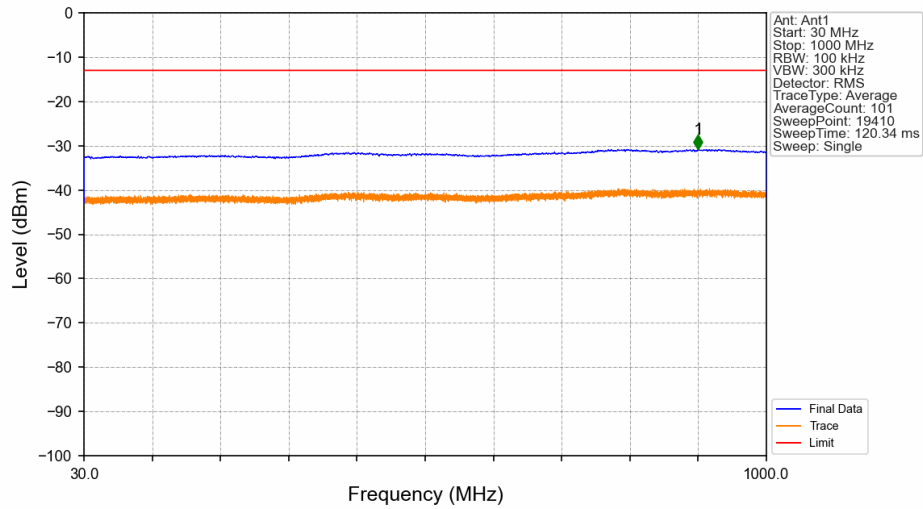


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	1	/	1	0.009	-32.69	-13	Pass

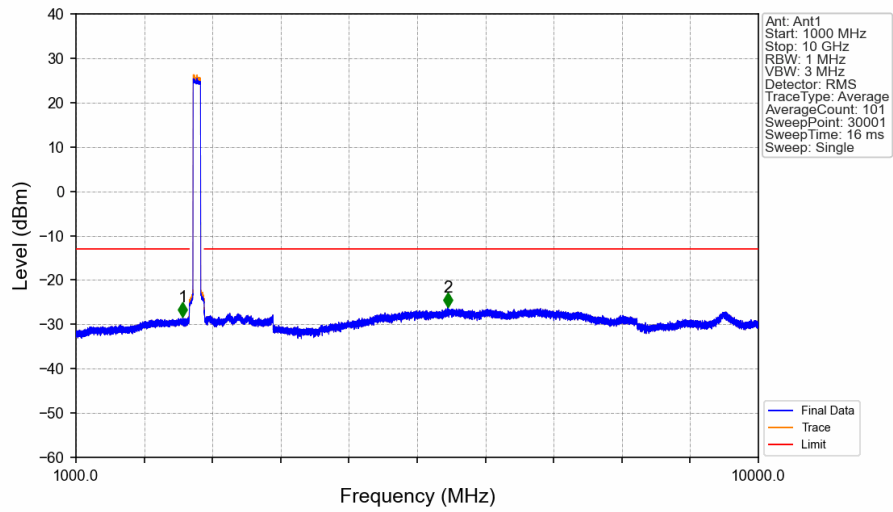
Band41_2593MHz_Broad100MHz_SISO_Ant1_NTNV



Band41_2593MHz_Broad100MHz_SISO_Ant1_NTNV

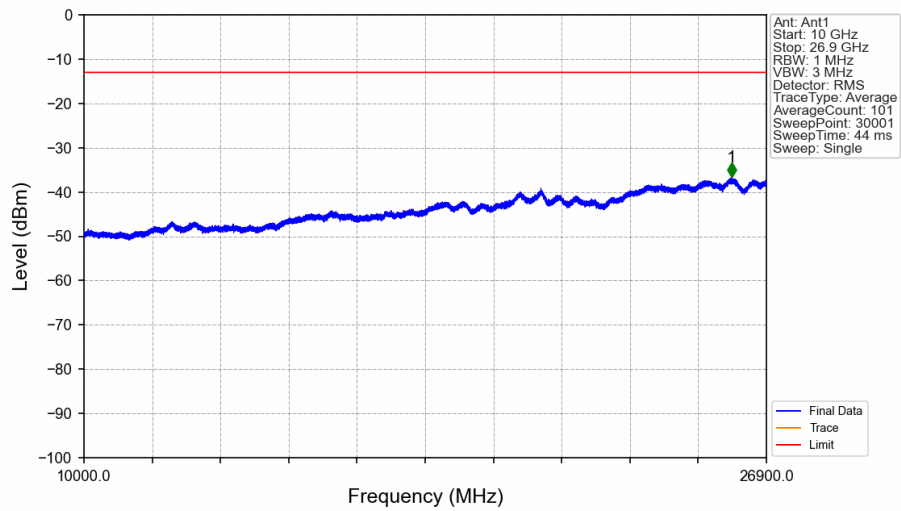


Band41_2593MHz_Broad100MHz_SISO_Ant1_NTNV



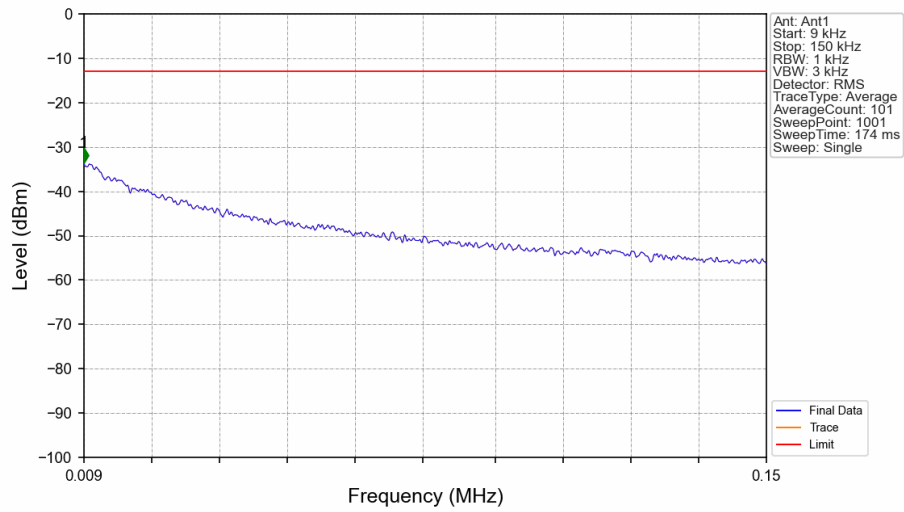
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	10000	1	/	1	2408.200	-28.32	-13	Pass
10000	2696	1.007	CHP	/	/	/	/	/
2696	10000	1	/	2	5903.500	-26.11	-13	Pass

Band41_2593MHz_Broad100MHz_SISO_Ant1_NTNV

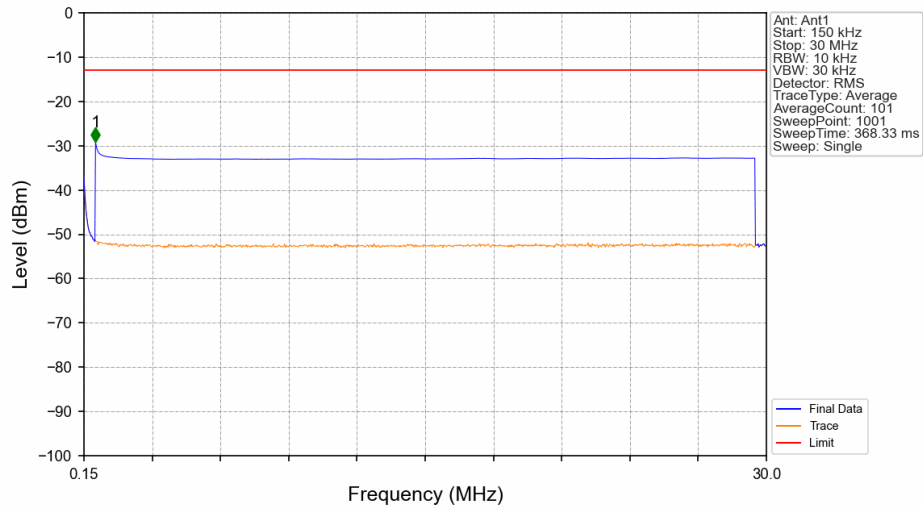


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	26039.790	-36.60	-13	Pass

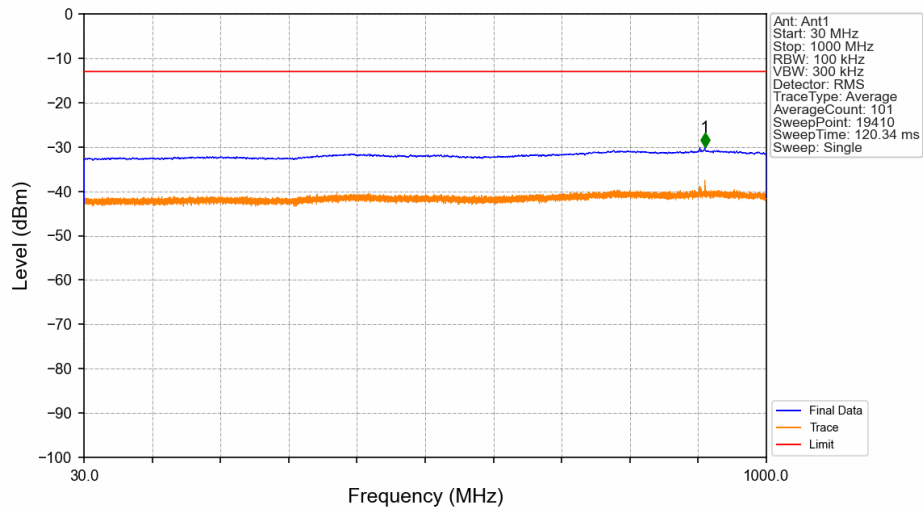
Band41_2640MHz_Broad100MHz_SISO_Ant1_NTNV



Band41_2640MHz_Broad100MHz_SISO_Ant1_NTNV

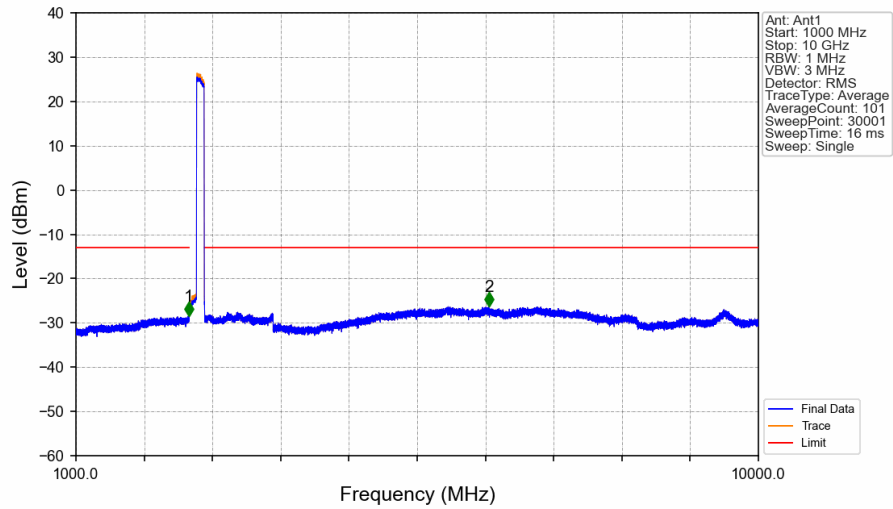


Band41_2640MHz_Broad100MHz_SISO_Ant1_NTNV



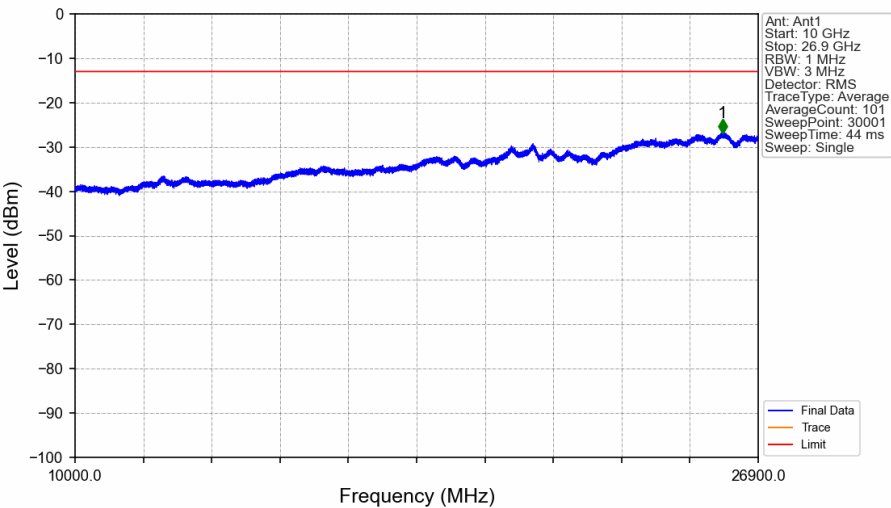
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	912.291	-29.92	-13	Pass

Band41_2640MHz_Broad100MHz_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	10000	1	/	1	2486.500	-28.44	-13	Pass
10000	2696	1.007	CHP	/	/	/	/	/
2696	10000	1	/	2	6444.400	-26.28	-13	Pass

Band41_2640MHz_Broad100MHz_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	26020.073	-26.81	-13	Pass

7. Frequency stability measurements

7.1 Bandn41_Ant1

7.1.1 Test Result

Band: 41 / NTNV							
Signal			Temp (°C)	Voltage (VAC)	Result (MHz)	Limit (MHz)	Verdict
Type	Level (dBm)	Frequency (MHz)					
GMSK 0.2MHz	-0.1	2496.2	20	102	2496.088	>2496	Pass
				120	2496.091	>2496	Pass
				138	2496.073	>2496	Pass
			-40	120	2496.066	>2496	Pass
			-30	120	2496.063	>2496	Pass
			-20	120	2496.081	>2496	Pass
			-10	120	2496.083	>2496	Pass
			0	120	2496.079	>2496	Pass
			10	120	2496.068	>2496	Pass
			30	120	2496.089	>2496	Pass
			40	120	2496.095	>2496	Pass
			50	120	2496.098	>2496	Pass
			55	120	2496.069	>2496	Pass
		2689.8	20	102	2689.938	<2690	Pass
				120	2689.918	<2690	Pass
				138	2689.954	<2690	Pass
			-40	120	2689.956	<2690	Pass
			-30	120	2689.947	<2690	Pass
			-20	120	2689.944	<2690	Pass
			-10	120	2689.939	<2690	Pass
			0	120	2689.919	<2690	Pass
			10	120	2689.844	<2690	Pass
			30	120	2689.899	<2690	Pass
			40	120	2689.906	<2690	Pass
			50	120	2689.932	<2690	Pass
			55	120	2689.941	<2690	Pass
AWGN 5MHz	-0.1	2498.5	20	102	2496.212	>2496	Pass
				120	2496.256	>2496	Pass
				138	2496.237	>2496	Pass
			-40	120	2496.291	>2496	Pass
			-30	120	2496.295	>2496	Pass
			-20	120	2496.267	>2496	Pass
			-10	120	2496.264	>2496	Pass
			0	120	2496.282	>2496	Pass
			10	120	2496.276	>2496	Pass
			30	120	2496.293	>2496	Pass
			40	120	2496.269	>2496	Pass
			50	120	2496.257	>2496	Pass
			55	120	2496.284	>2496	Pass
		2687.5	20	102	2689.709	<2690	Pass
				120	2689.732	<2690	Pass
				138	2689.715	<2690	Pass
			-40	120	2689.733	<2690	Pass
			-30	120	2689.746	<2690	Pass
			-20	120	2689.730	<2690	Pass

AWGN 100MHz	-0.1		-10	120	2689.726	<2690	Pass
			0	120	2689.737	<2690	Pass
			10	120	2689.718	<2690	Pass
			30	120	2689.726	<2690	Pass
			40	120	2689.729	<2690	Pass
			50	120	2689.718	<2690	Pass
			55	120	2689.767	<2690	Pass
		2546	20	102	2498.026	>2496	Pass
				120	2498.058	>2496	Pass
				138	2498.062	>2496	Pass
			-40	120	2498.087	>2496	Pass
			-30	120	2498.081	>2496	Pass
			-20	120	2498.067	>2496	Pass
			-10	120	2498.049	>2496	Pass
			0	120	2498.056	>2496	Pass
			10	120	2498.072	>2496	Pass
			30	120	2498.081	>2496	Pass
			40	120	2498.098	>2496	Pass
			50	120	2498.091	>2496	Pass
			55	120	2498.075	>2496	Pass
		2640	20	102	2687.459	<2690	Pass
				120	2687.461	<2690	Pass
				138	2687.472	<2690	Pass
			-40	120	2687.481	<2690	Pass
			-30	120	2687.484	<2690	Pass
			-20	120	2687.463	<2690	Pass
			-10	120	2687.485	<2690	Pass
			0	120	2687.494	<2690	Pass
			10	120	2687.492	<2690	Pass
			30	120	2687.474	<2690	Pass
			40	120	2687.488	<2690	Pass
			50	120	2687.465	<2690	Pass
			55	120	2687.449	<2690	Pass

8. Radiated Spurious Emissions

8.1 Band 41_Ant1

8.1.1 Test Result

GMSK _Low channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
595.929	Horizontal	-75.38	-13	-62.38	pass
821.835	Horizontal	-72.63	-13	-59.63	pass
898.875	Horizontal	-67.61	-13	-54.61	pass
1587.460	Horizontal	-71.49	-13	-58.49	pass
3554.770	Horizontal	-66.79	-13	-53.79	pass
5394.490	Horizontal	-61.24	-13	-48.24	pass
387.862	Vertical	-69.17	-13	-56.17	pass
582.759	Vertical	-69.39	-13	-56.39	pass
811.415	Vertical	-62.71	-13	-49.71	pass
1614.290	Vertical	-66.04	-13	-53.04	pass
3562.400	Vertical	-58.05	-13	-45.05	pass
5393.140	Vertical	-56.14	-13	-43.14	pass

GMSK _Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
573.339	Horizontal	-78.95	-13	-65.95	pass
817.385	Horizontal	-71.74	-13	-58.74	pass
893.815	Horizontal	-66.62	-13	-53.62	pass
1590.130	Horizontal	-70.57	-13	-57.57	pass
3571.340	Horizontal	-70.05	-13	-57.05	pass
5347.000	Horizontal	-60.72	-13	-47.72	pass
367.622	Vertical	-65.94	-13	-52.94	pass
609.509	Vertical	-71.82	-13	-58.82	pass
806.625	Vertical	-64.68	-13	-51.68	pass
2236.700	Vertical	-64.80	-13	-51.80	pass
4346.270	Vertical	-56.44	-13	-43.44	pass
7558.410	Vertical	-54.56	-13	-41.56	pass

GMSK_High channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
383.172	Horizontal	-79.36	-13	-66.36	pass
592.009	Horizontal	-69.97	-13	-56.97	pass
780.475	Horizontal	-64.61	-13	-51.61	pass
2245.220	Horizontal	-68.59	-13	-55.59	pass
4330.090	Horizontal	-69.82	-13	-56.82	pass
7563.000	Horizontal	-57.64	-13	-44.64	pass
255.529	Vertical	-66.29	-13	-53.29	pass
489.476	Vertical	-70.84	-13	-57.84	pass
682.882	Vertical	-62.25	-13	-49.25	pass
2211.210	Vertical	-63.88	-13	-50.88	pass
4337.010	Vertical	-59.97	-13	-46.97	pass
7585.940	Vertical	-59.45	-13	-46.45	pass

AWGN_5MHz_Low channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
381.602	Horizontal	-74.35	-13	-61.35	pass
571.049	Horizontal	-73.81	-13	-60.81	pass
796.505	Horizontal	-71.18	-13	-58.18	pass
2223.560	Horizontal	-71.87	-13	-58.87	pass
4350.020	Horizontal	-67.39	-13	-54.39	pass
7545.040	Horizontal	-61.13	-13	-48.13	pass
384.952	Vertical	-68.13	-13	-55.13	pass
595.539	Vertical	-67.22	-13	-54.22	pass
786.115	Vertical	-65.60	-13	-52.6	pass
2241.760	Vertical	-68.02	-13	-55.02	pass
4320.380	Vertical	-58.43	-13	-45.43	pass
7575.380	Vertical	-52.29	-13	-39.29	pass

AWGN_5MHz_Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
389.022	Horizontal	-75.84	-13	-62.84	pass
564.029	Horizontal	-68.89	-13	-55.89	pass
818.215	Horizontal	-69.41	-13	-56.41	pass
2221.270	Horizontal	-71.38	-13	-58.38	pass
4301.770	Horizontal	-69.84	-13	-56.84	pass
7564.450	Horizontal	-58.86	-13	-45.86	pass
235.799	Vertical	-70.09	-13	-57.09	pass
505.566	Vertical	-72.95	-13	-59.95	pass
680.832	Vertical	-63.22	-13	-50.22	pass
2211.970	Vertical	-64.45	-13	-51.45	pass
4315.420	Vertical	-59.43	-13	-46.43	pass
7543.420	Vertical	-52.31	-13	-39.31	pass
AWGN_5MHz_High channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
592.609	Horizontal	-79.19	-13	-66.19	pass
782.695	Horizontal	-74.27	-13	-61.27	pass
875.905	Horizontal	-63.63	-13	-50.63	pass
2206.810	Horizontal	-72.36	-13	-59.36	pass
4340.940	Horizontal	-67.76	-13	-54.76	pass
7559.480	Horizontal	-62.19	-13	-49.19	pass
408.972	Vertical	-72.05	-13	-59.05	pass
582.509	Vertical	-68.50	-13	-55.50	pass
815.375	Vertical	-65.18	-13	-52.18	pass
2205.360	Vertical	-68.44	-13	-55.44	pass
4324.020	Vertical	-60.56	-13	-47.56	pass
7587.910	Vertical	-52.87	-13	-39.87	pass

AWGN_100MHz_Low channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
408.232	Horizontal	-76.33	-13	-63.33	pass
585.659	Horizontal	-73.28	-13	-60.28	pass
783.045	Horizontal	-66.67	-13	-53.67	pass
2238.300	Horizontal	-68.95	-13	-55.95	pass
4333.570	Horizontal	-70.50	-13	-57.50	pass
7584.670	Horizontal	-63.56	-13	-50.56	pass
246.529	Vertical	-69.20	-13	-56.20	pass
508.806	Vertical	-69.32	-13	-56.32	pass
699.192	Vertical	-64.29	-13	-51.29	pass
2231.030	Vertical	-62.58	-13	-49.58	pass
4330.460	Vertical	-55.54	-13	-42.54	pass
7542.150	Vertical	-54.62	-13	-41.62	pass

AWGN_100MHz_Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
378.882	Horizontal	-73.73	-13	-60.73	pass
606.309	Horizontal	-69.70	-13	-56.70	pass
787.675	Horizontal	-70.36	-13	-57.36	pass
2229.280	Horizontal	-69.30	-13	-56.30	pass
4307.830	Horizontal	-63.32	-13	-50.32	pass
7577.160	Horizontal	-57.89	-13	-44.89	pass
389.402	Vertical	-65.24	-13	-52.24	pass
592.029	Vertical	-72.95	-13	-59.95	pass
798.065	Vertical	-63.47	-13	-50.47	pass
2204.110	Vertical	-69.92	-13	-56.92	pass
4349.310	Vertical	-61.80	-13	-48.80	pass
7582.020	Vertical	-52.46	-13	-39.46	pass

AWGN_100MHz_High channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
MHz	polarization	dBm	dBm	dB	
397.262	Horizontal	-74.91	-13	-61.91	pass
572.969	Horizontal	-72.10	-13	-59.10	pass
794.925	Horizontal	-66.78	-13	-53.78	pass
2205.470	Horizontal	-68.99	-13	-55.99	pass
4307.810	Horizontal	-66.10	-13	-53.10	pass
7572.340	Horizontal	-61.48	-13	-48.48	pass
241.829	Vertical	-68.68	-13	-55.68	pass
489.936	Vertical	-72.22	-13	-59.22	pass
681.032	Vertical	-63.14	-13	-50.14	pass
2245.090	Vertical	-69.63	-13	-56.63	pass
4325.010	Vertical	-59.64	-13	-46.64	pass
7585.140	Vertical	-56.69	-13	-43.69	pass