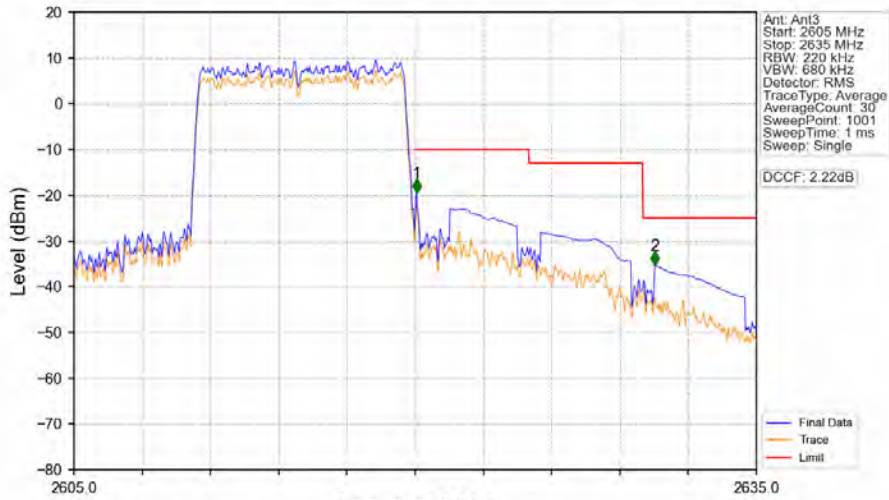


Band38_10MHz_16QAM_HCH_2615MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.22	/	/	/	/	/	/
2620	2621	0.22	/	1	2620.060	-19.50	-10	Pass
2621	2635	1	CHP	2	2630.530	-35.45	-25	Pass

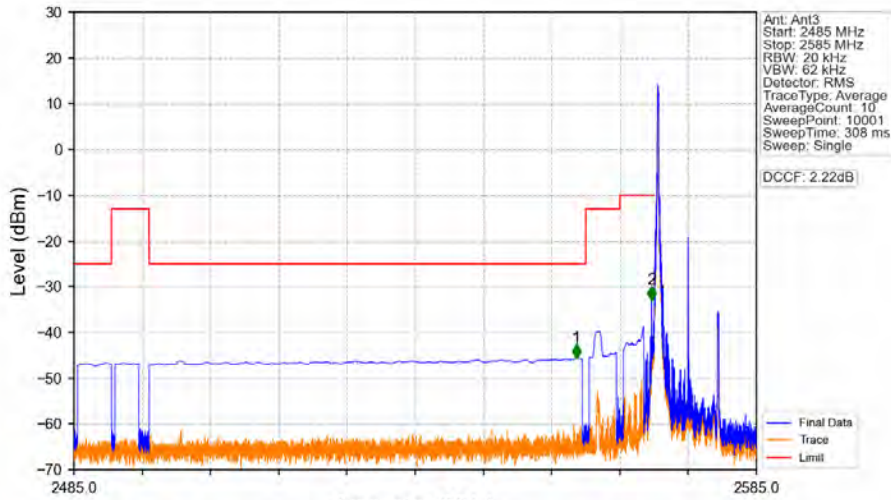


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Band38_10MHz_64QAM_LCH_2575MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2558.630	-45.60	-25	Pass
2569	2570	0.02	/	2	2569.660	-32.89	-10	Pass
2570	2585	0.02	/	/	/	/	/	/

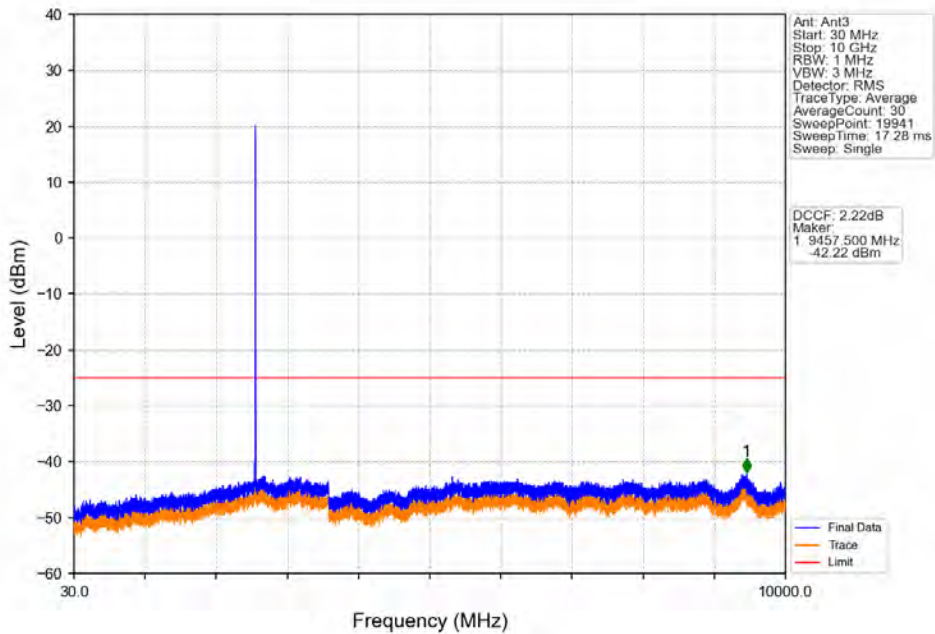


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Band38_10MHz_64QAM_LCH_2575MHz_RB_1_0_NTNV

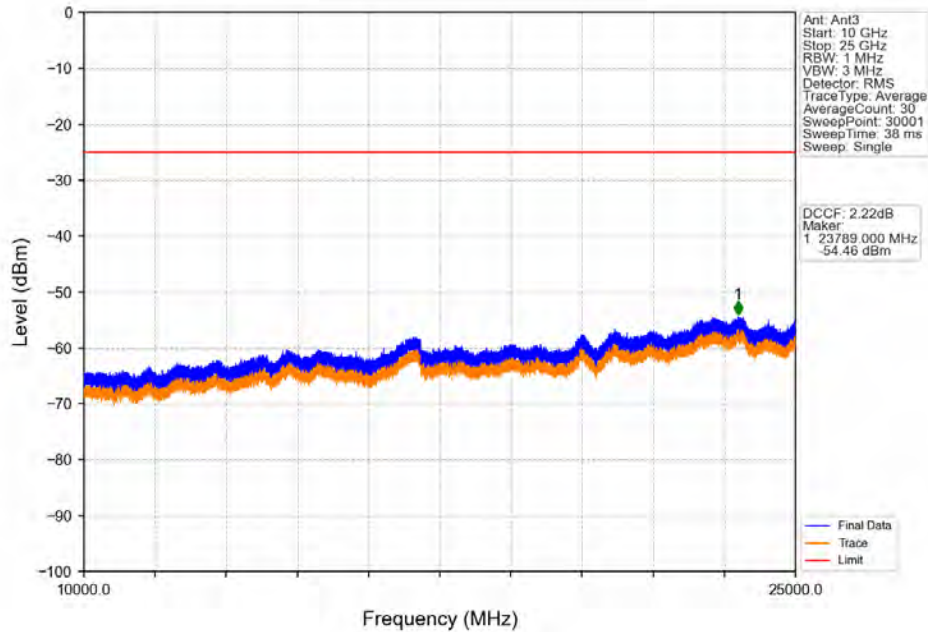


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Band38_10MHz_64QAM_LCH_2575MHz_RB_1_0_NTNV

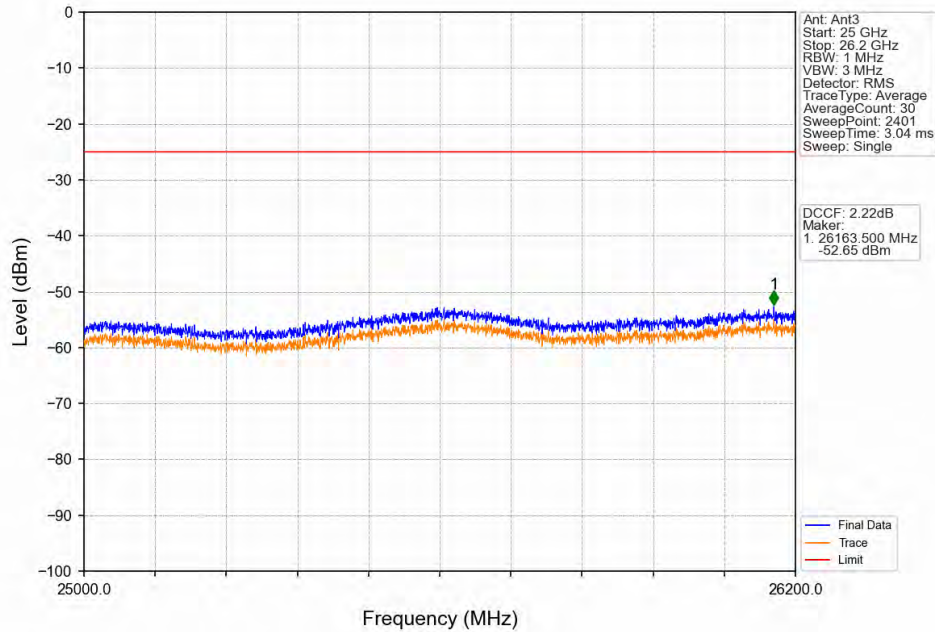


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Band38_10MHz_64QAM_LCH_2575MHz_RB_1_0_NTNV



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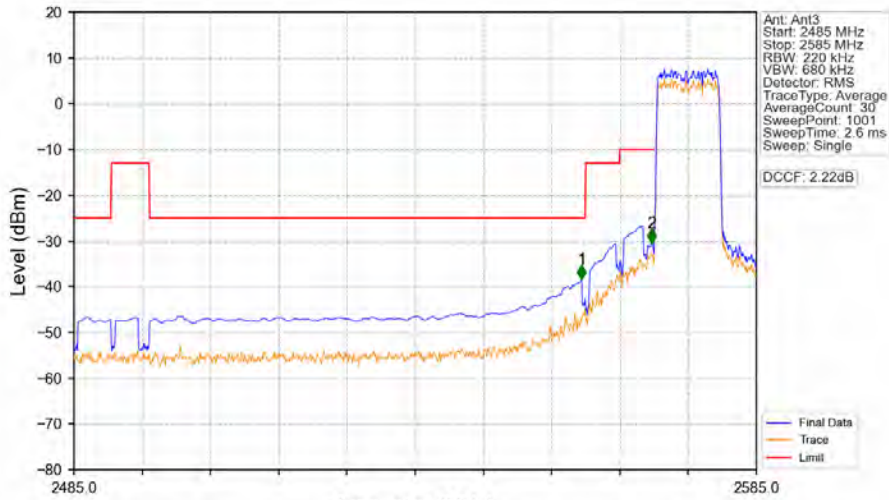
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Band38_10MHz_64QAM_LCH_2575MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2559.400	-38.37	-25	Pass
2569	2570	0.22	/	2	2569.600	-30.39	-10	Pass
2570	2585	0.22	/	/	/	/	/	/



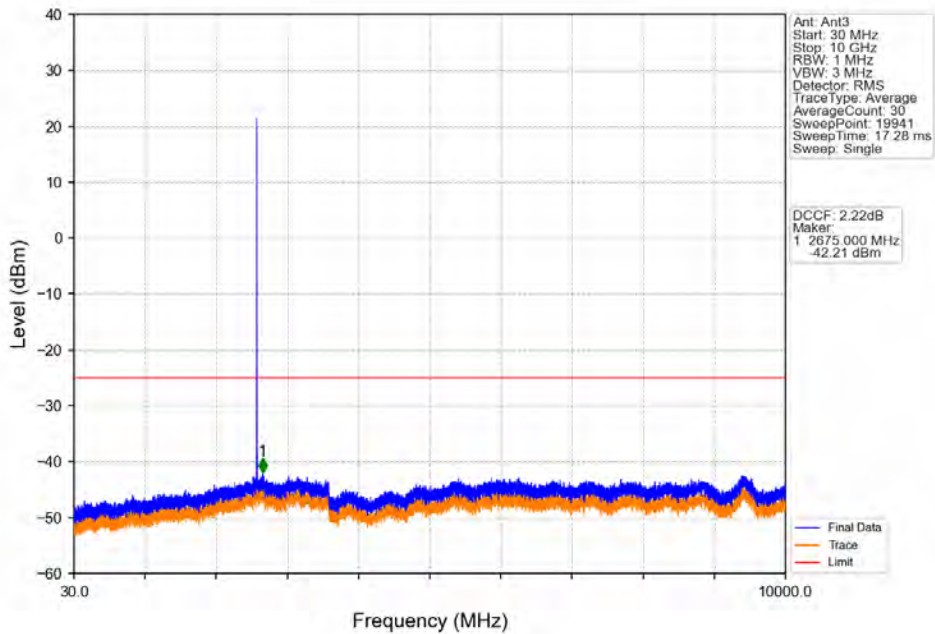
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Band38_10MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



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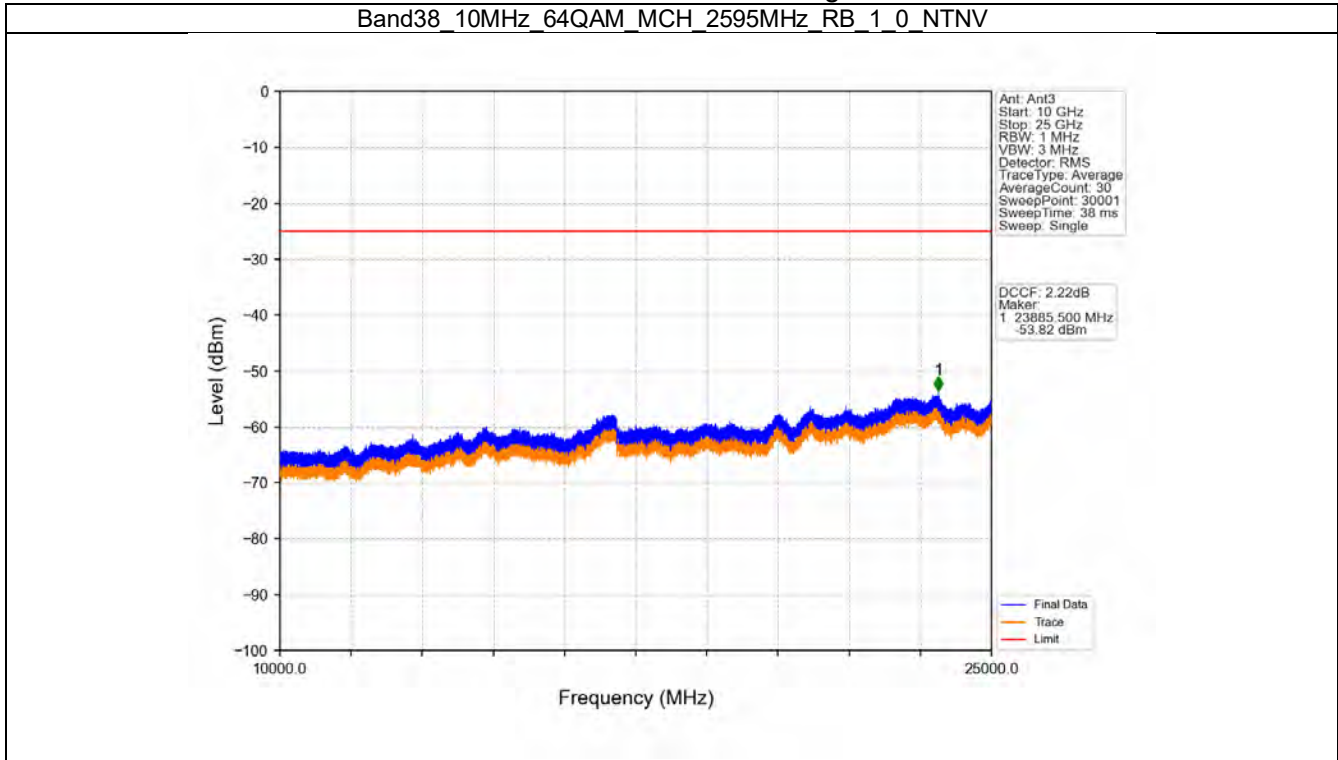
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Band38_10MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



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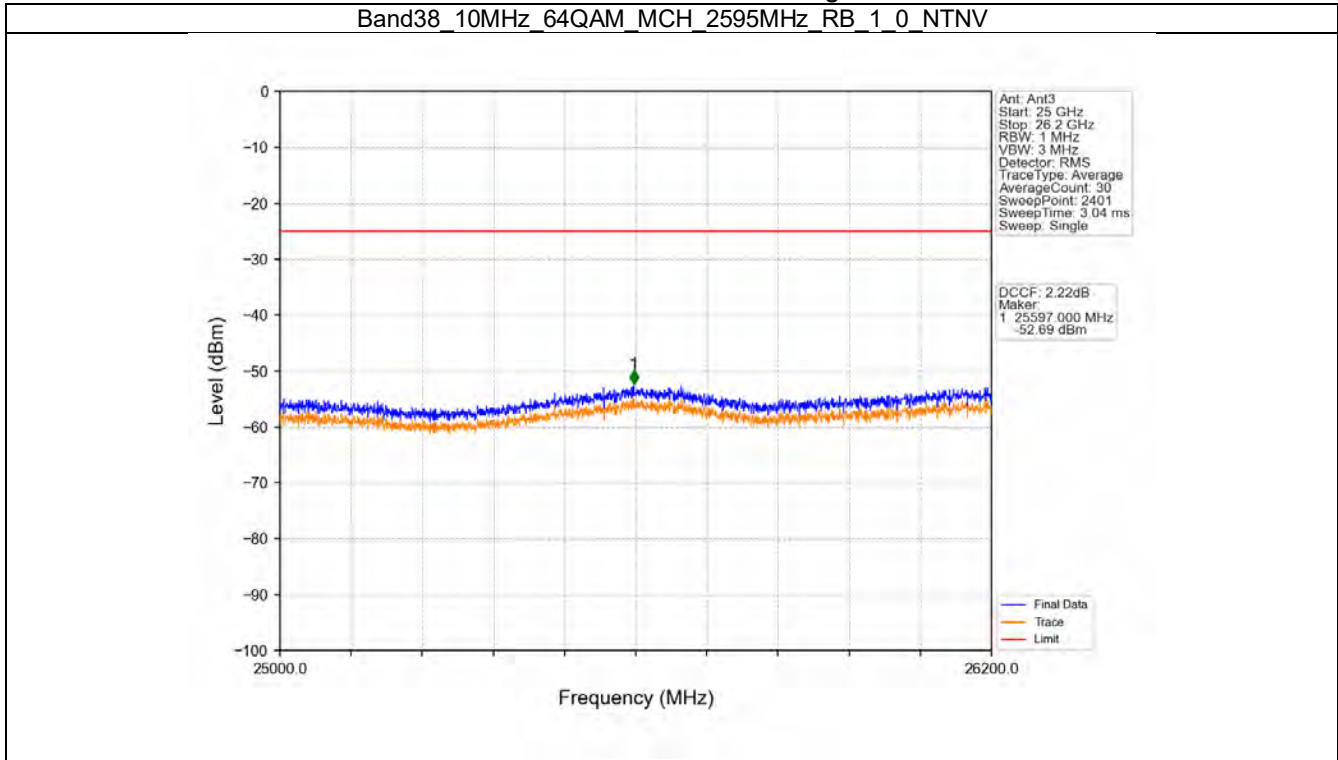
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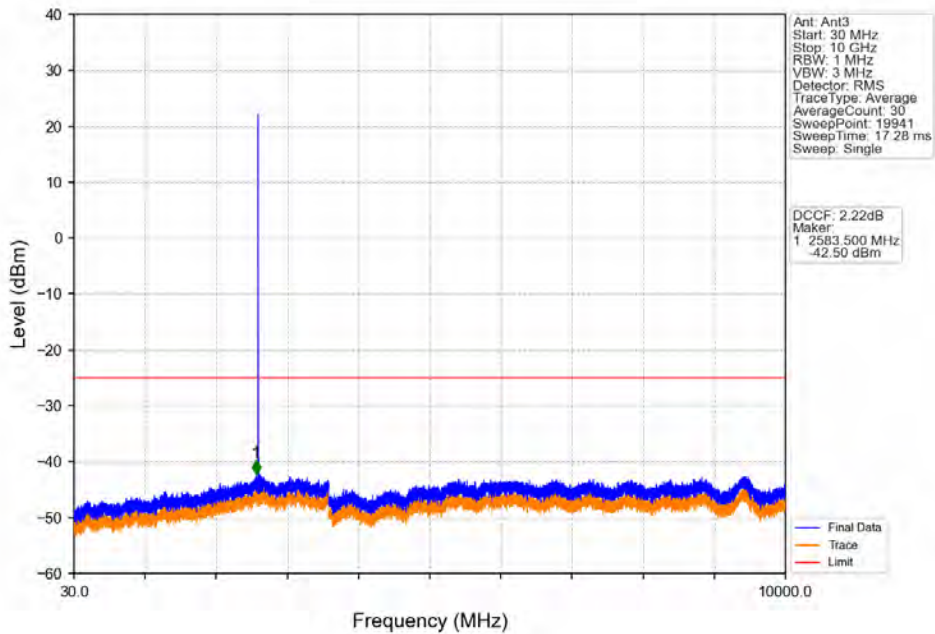


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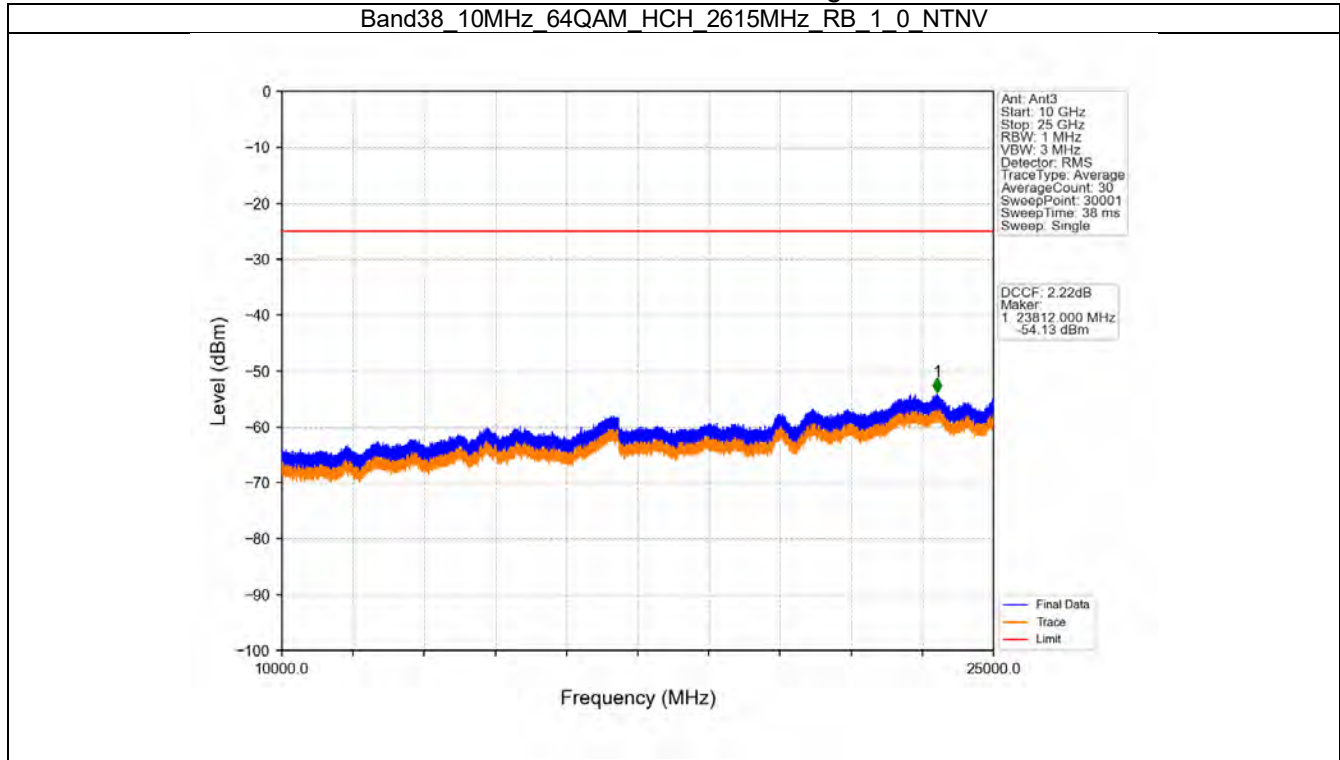


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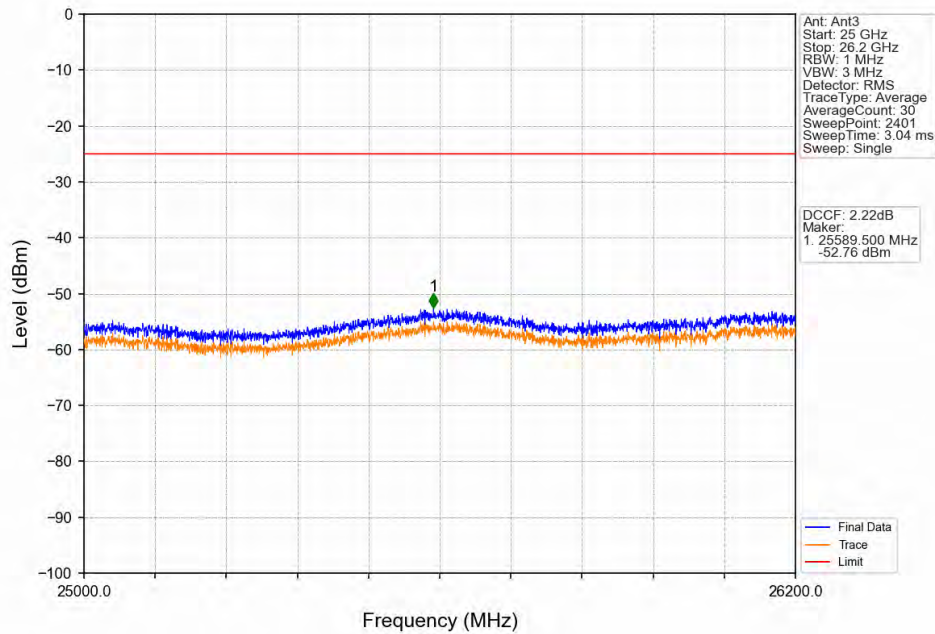


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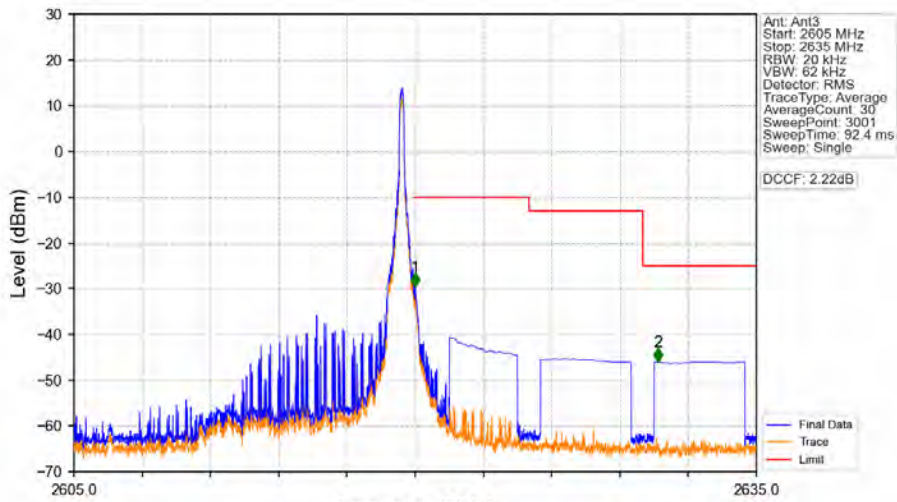
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Band38_10MHz_64QAM_HCH_2615MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.02	/	1	2620.000	-29.63	-10	Pass
2621	2635	1	CHP	2	2630.690	-46.07	-25	Pass

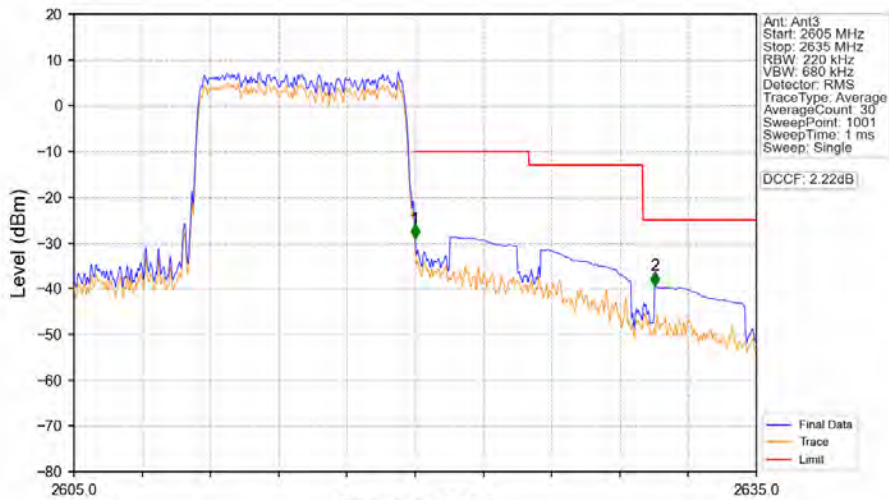


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Band38_10MHz_64QAM_HCH_2615MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.22	/	/	/	/	/	/
2620	2621	0.22	/	1	2620.000	-29.06	-10	Pass
2621	2635	1	CHP	2	2630.530	-39.36	-25	Pass



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5.3 B38_15MHz

5.3.1 Test Result

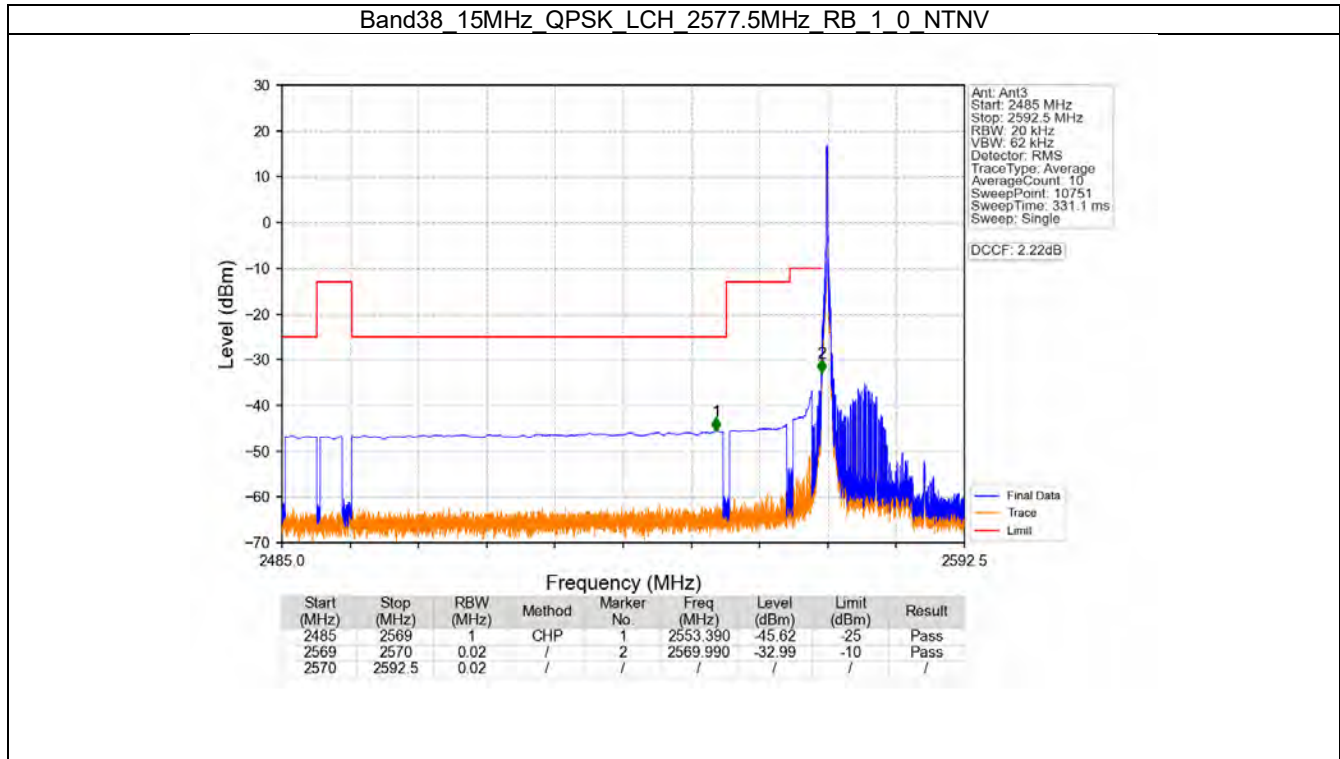
Band: 38 / Bandwidth: 15MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2612.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
16QAM	2577.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2612.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
64QAM	2577.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2612.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass



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5.3.2 Test Graph



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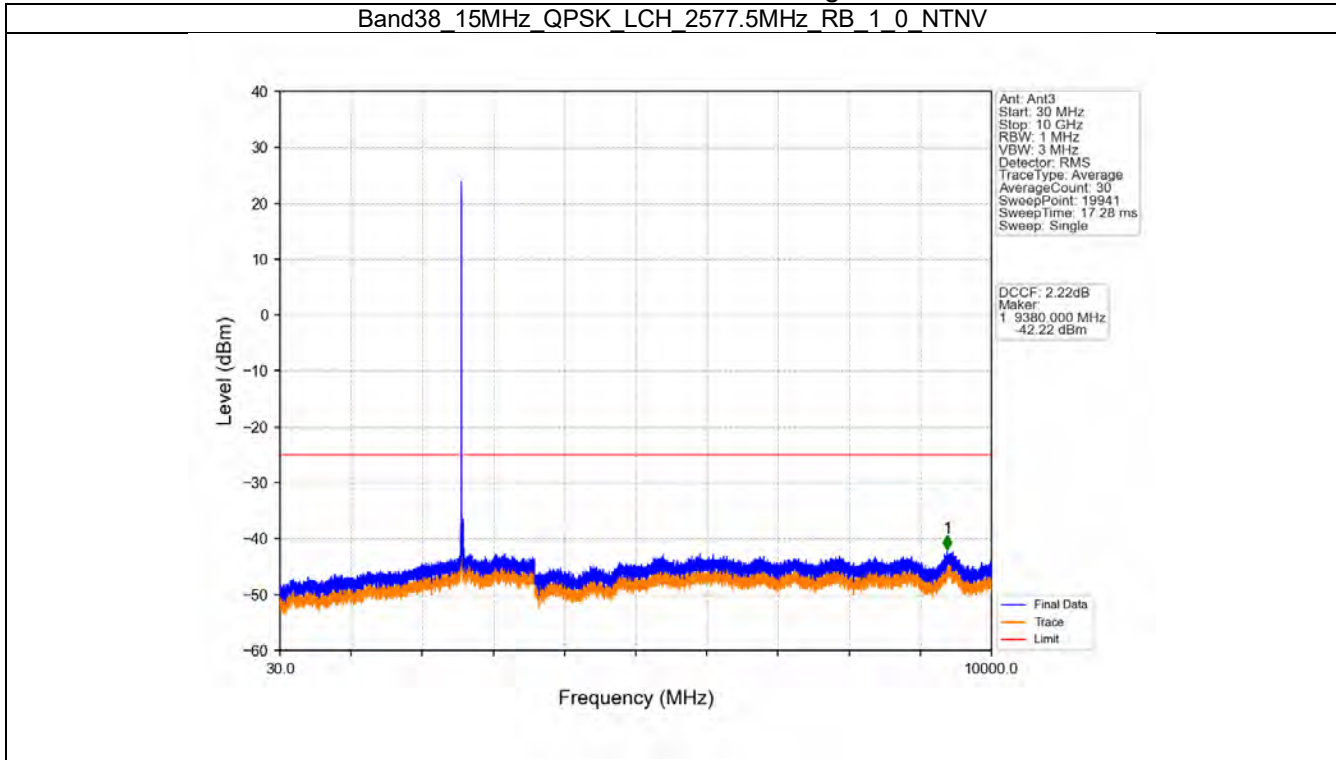
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Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV



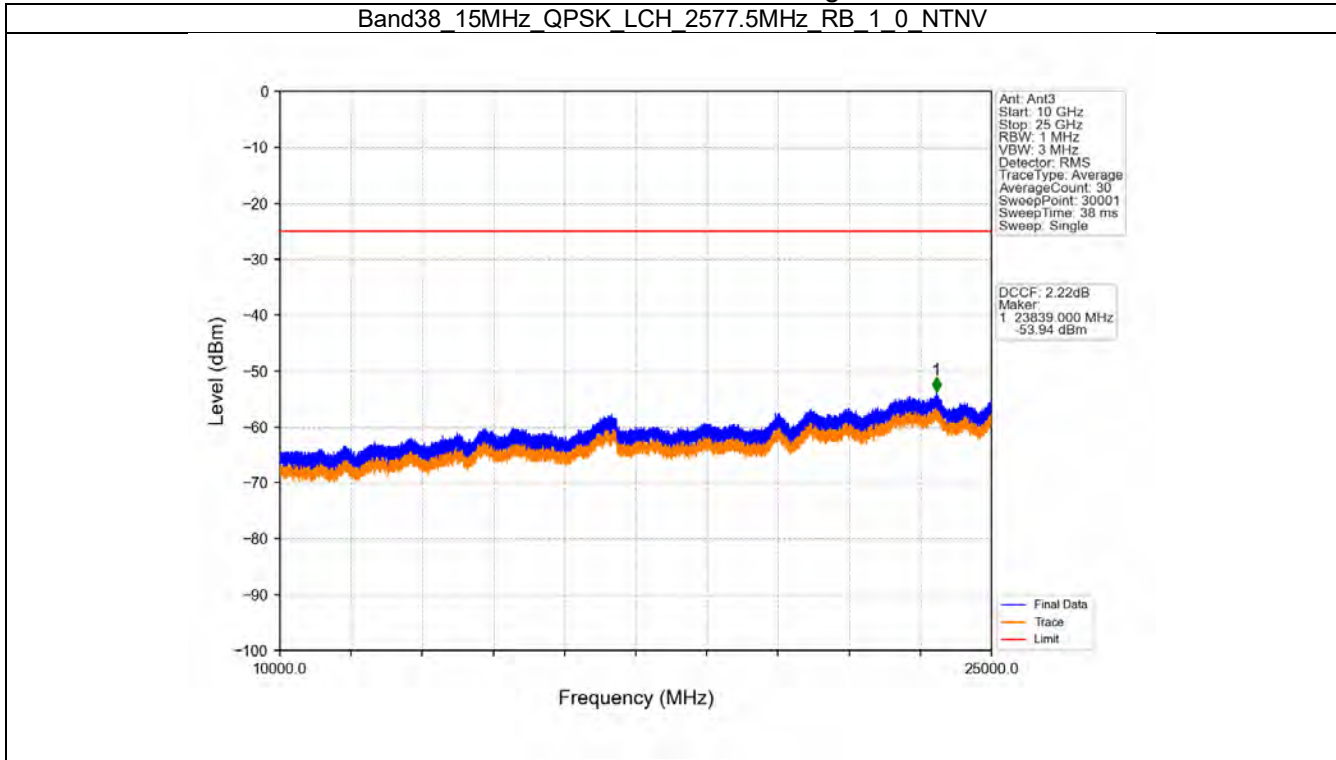
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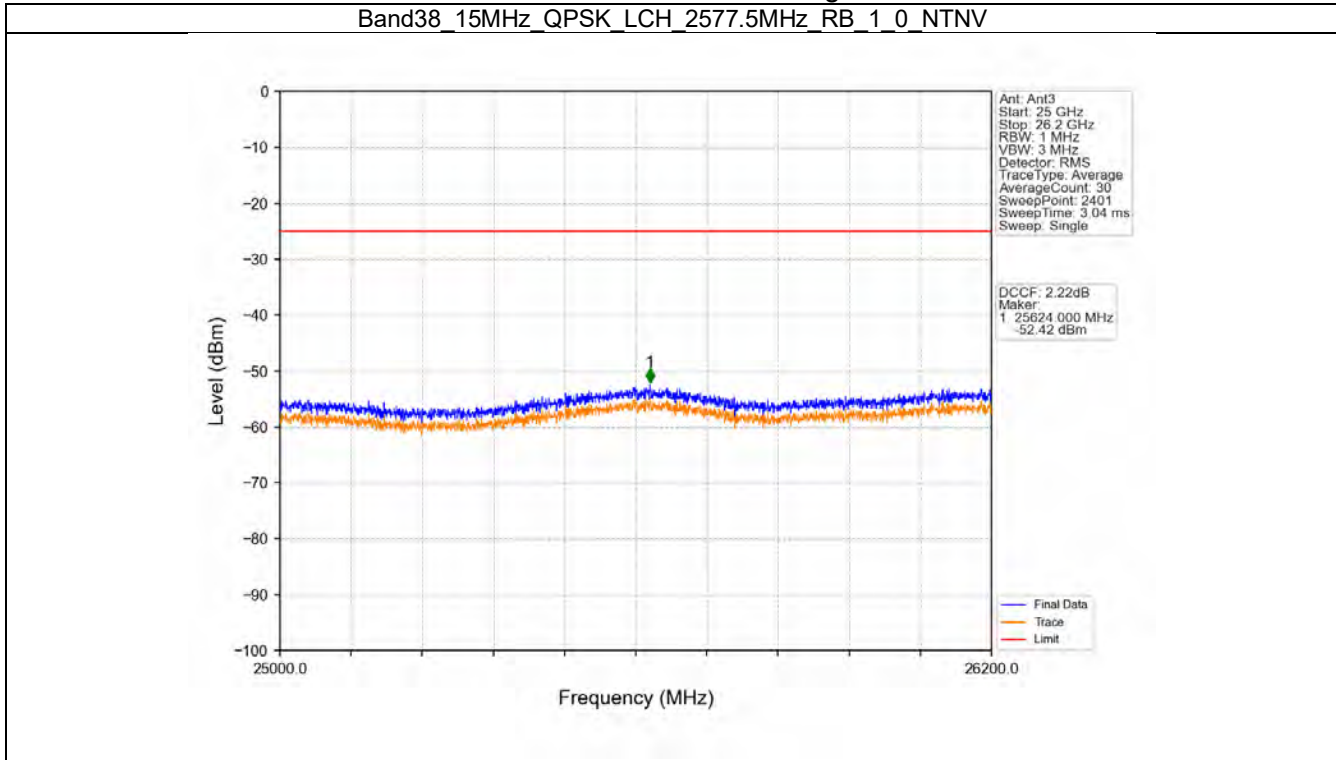
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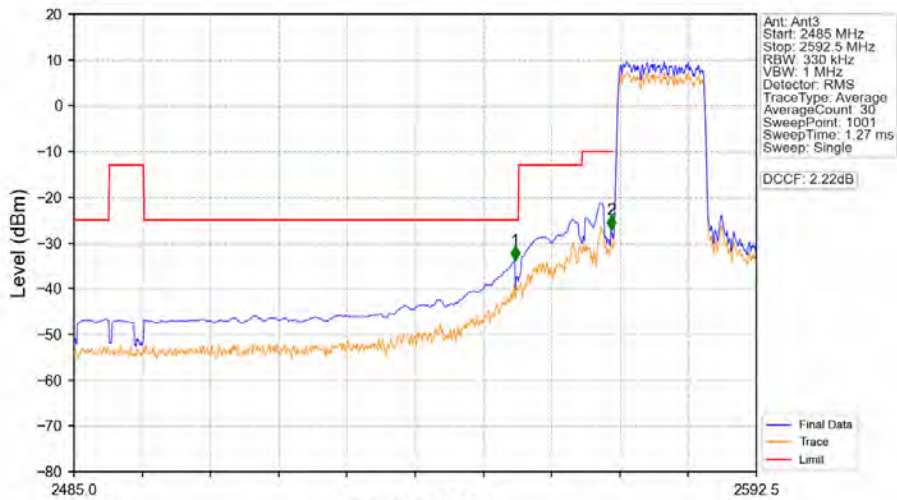
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Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2554.445	-33.86	-25	Pass
2569	2570	0.33	/	2	2569.602	-27.07	-10	Pass
2570	2592.5	0.33	/	/	/	/	/	/



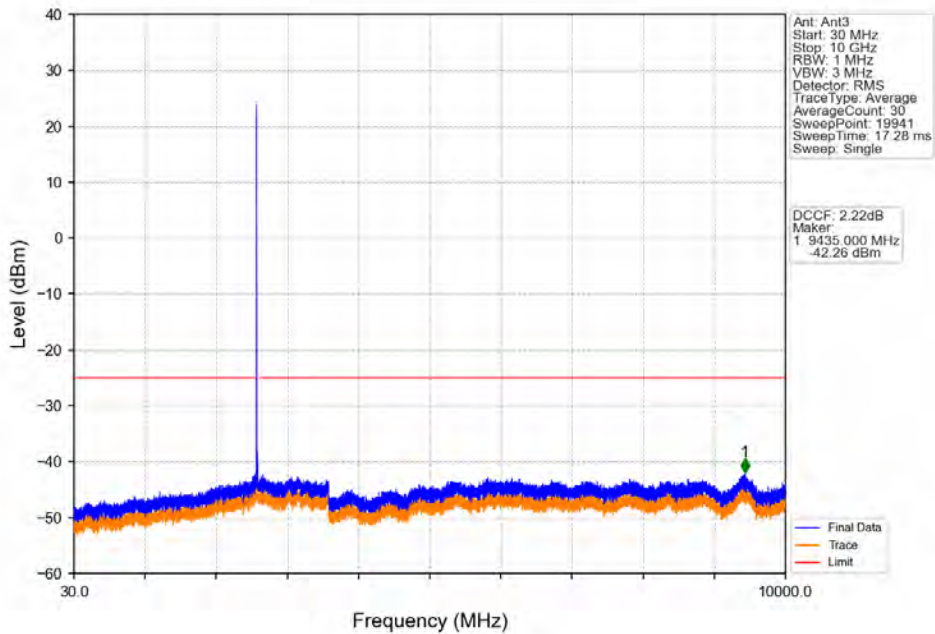
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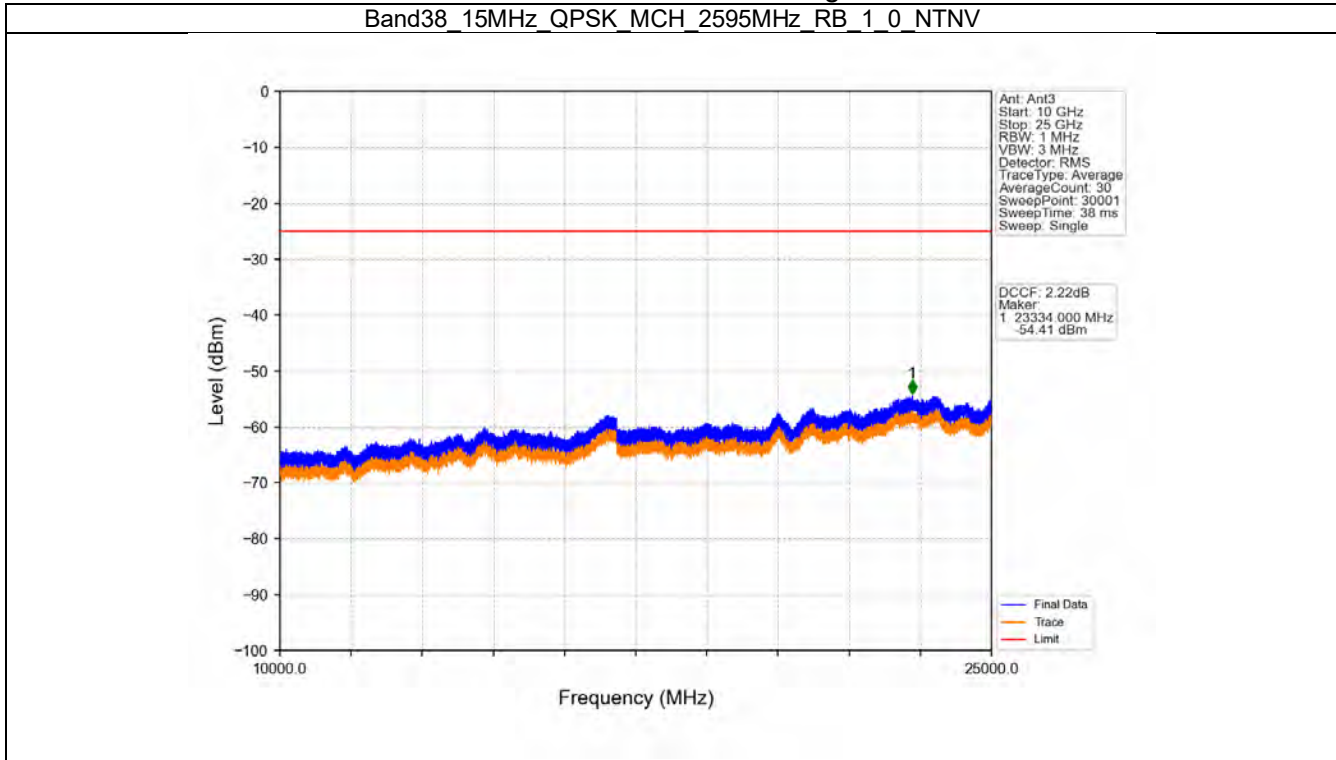


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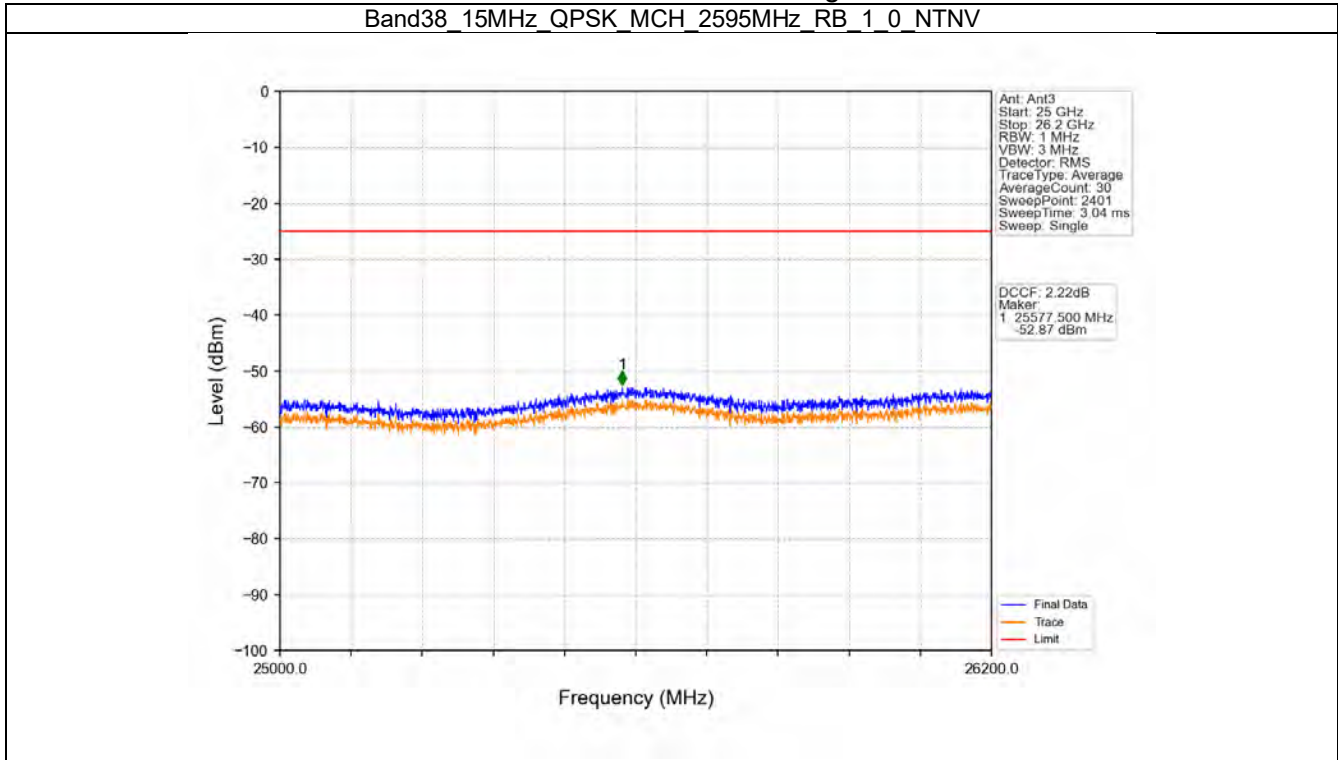
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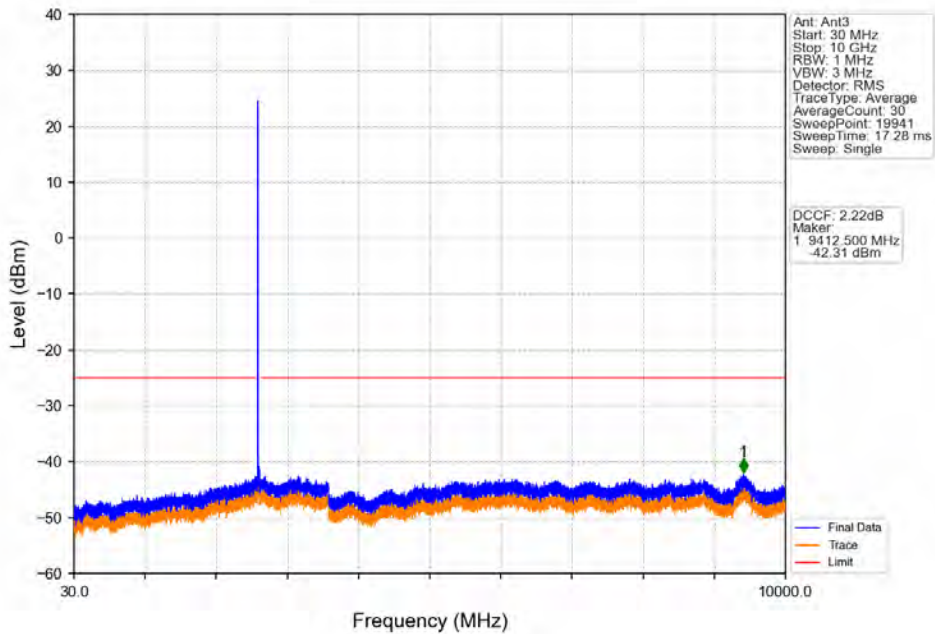
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Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV



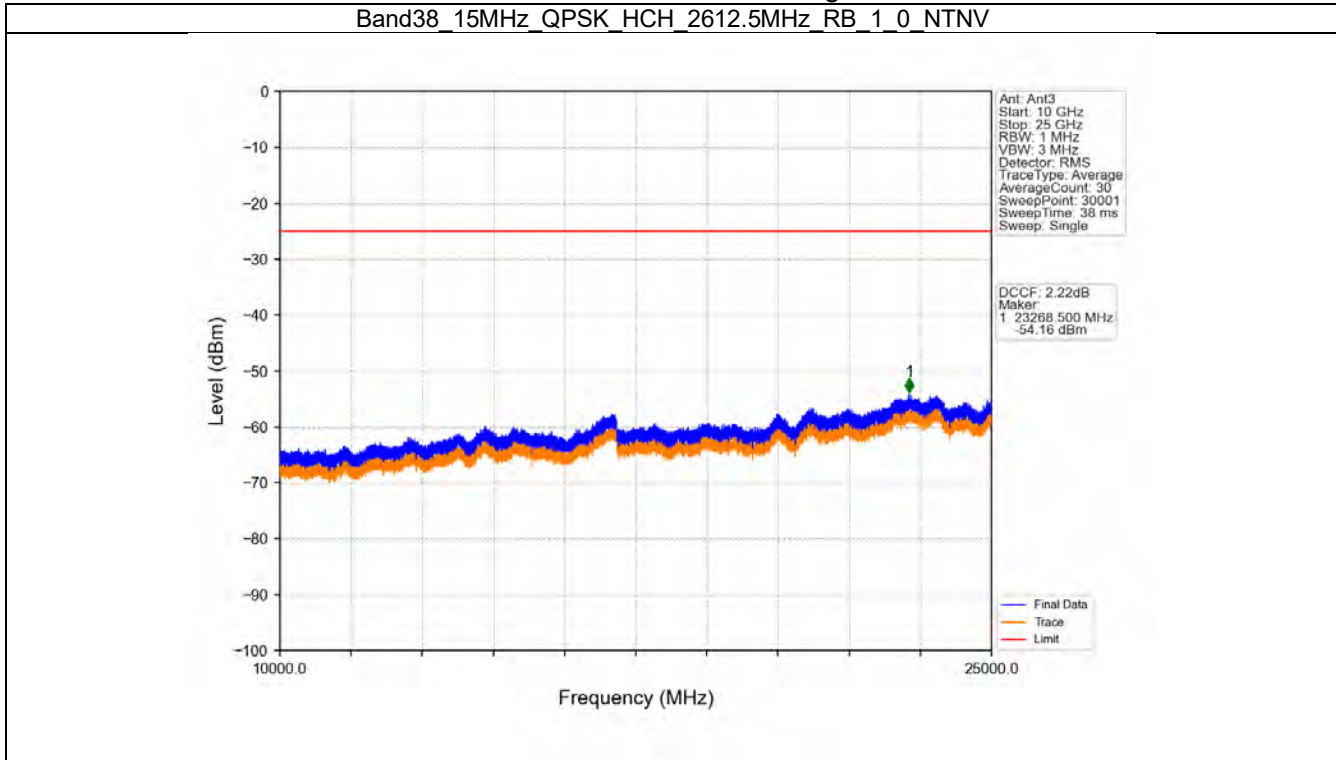
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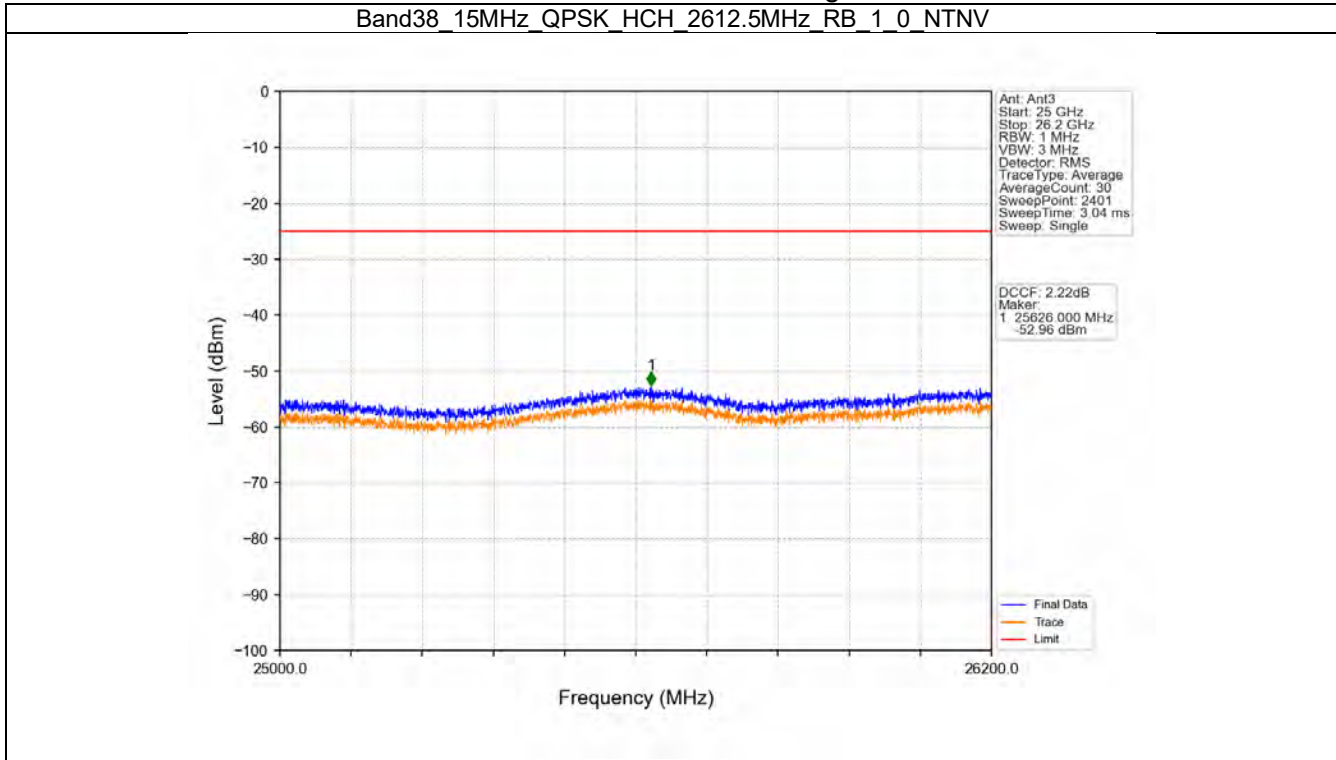


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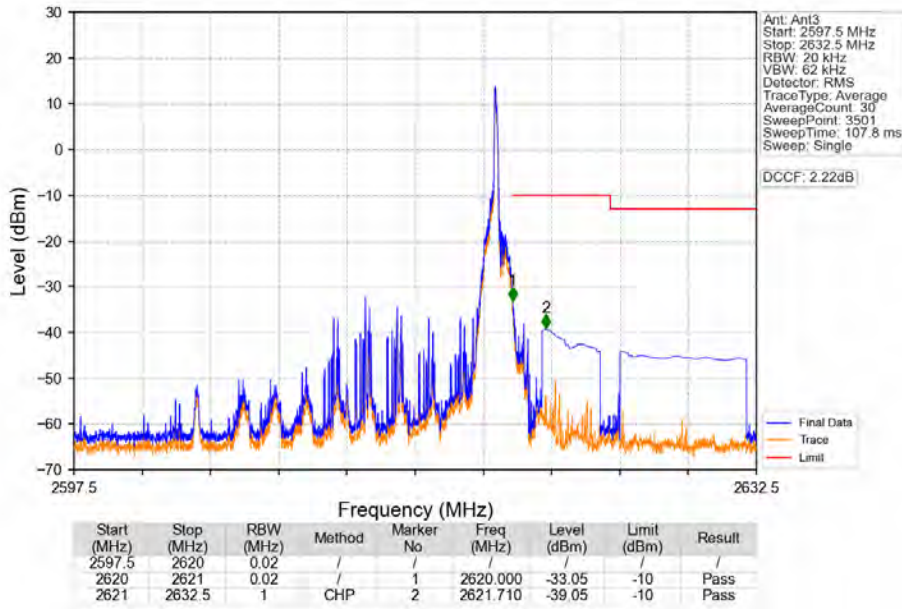
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Band38 15MHz_QPSK_HCH_2612.5MHz RB 1_74 NTN



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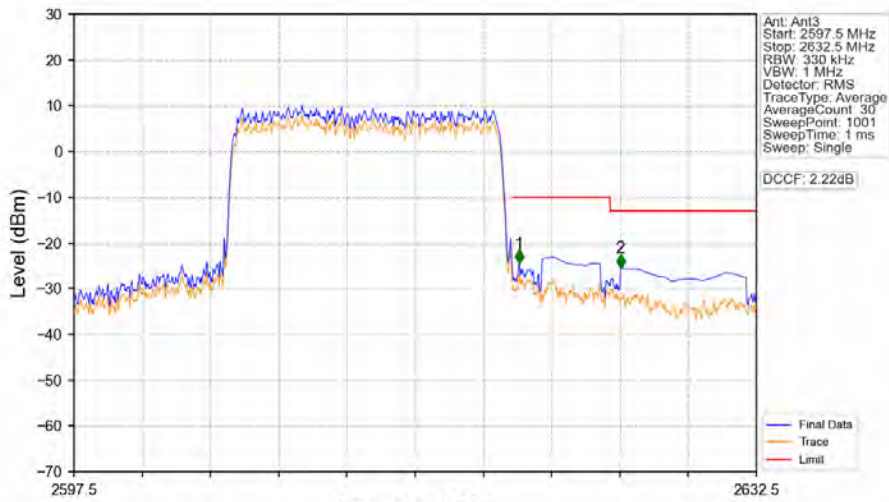


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Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2597.5	2620	0.33	/	/	/	/	/	/
2620	2621	0.33	/	1	2620.320	-24.52	-10	Pass
2621	2632.5	1	CHP	2	2625.535	-25.47	-13	Pass



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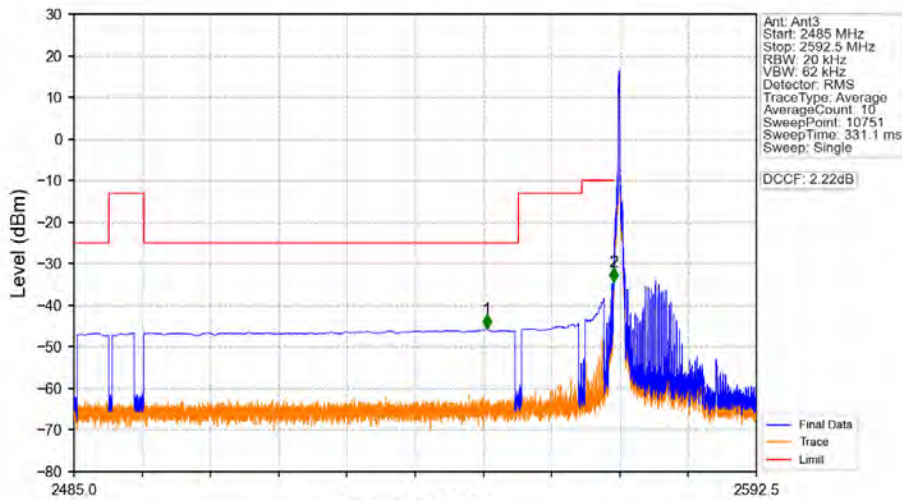
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Band38_15MHz_16QAM_LCH_2577.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2550.000	-45.71	-25	Pass
2569	2570	0.02	/	2	2569.970	-34.42	-10	Pass
2570	2592.5	0.02	/	/	/	/	/	/



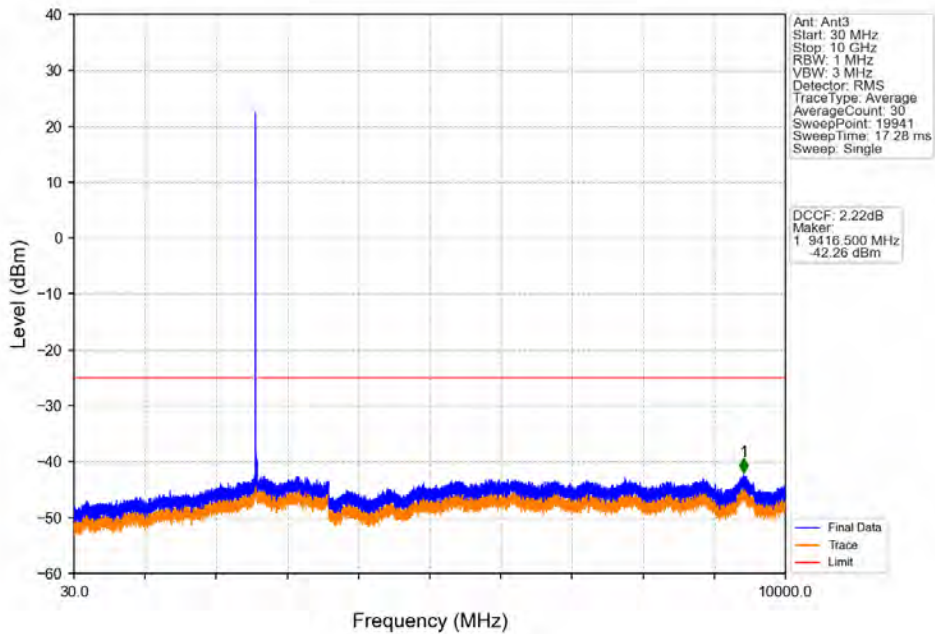
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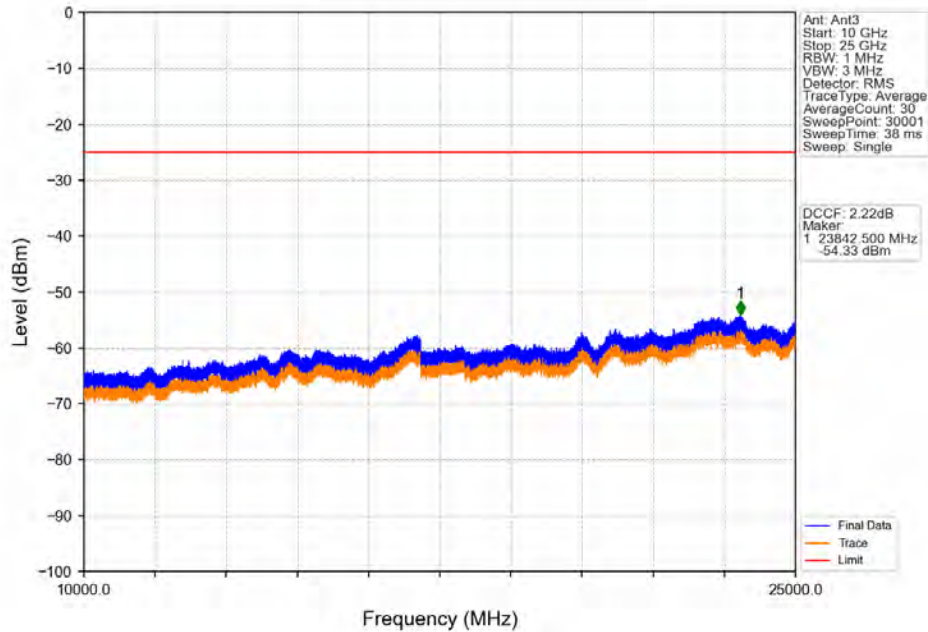


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Band38_15MHz_16QAM_LCH_2577.5MHz_RB_1_0_NTNV



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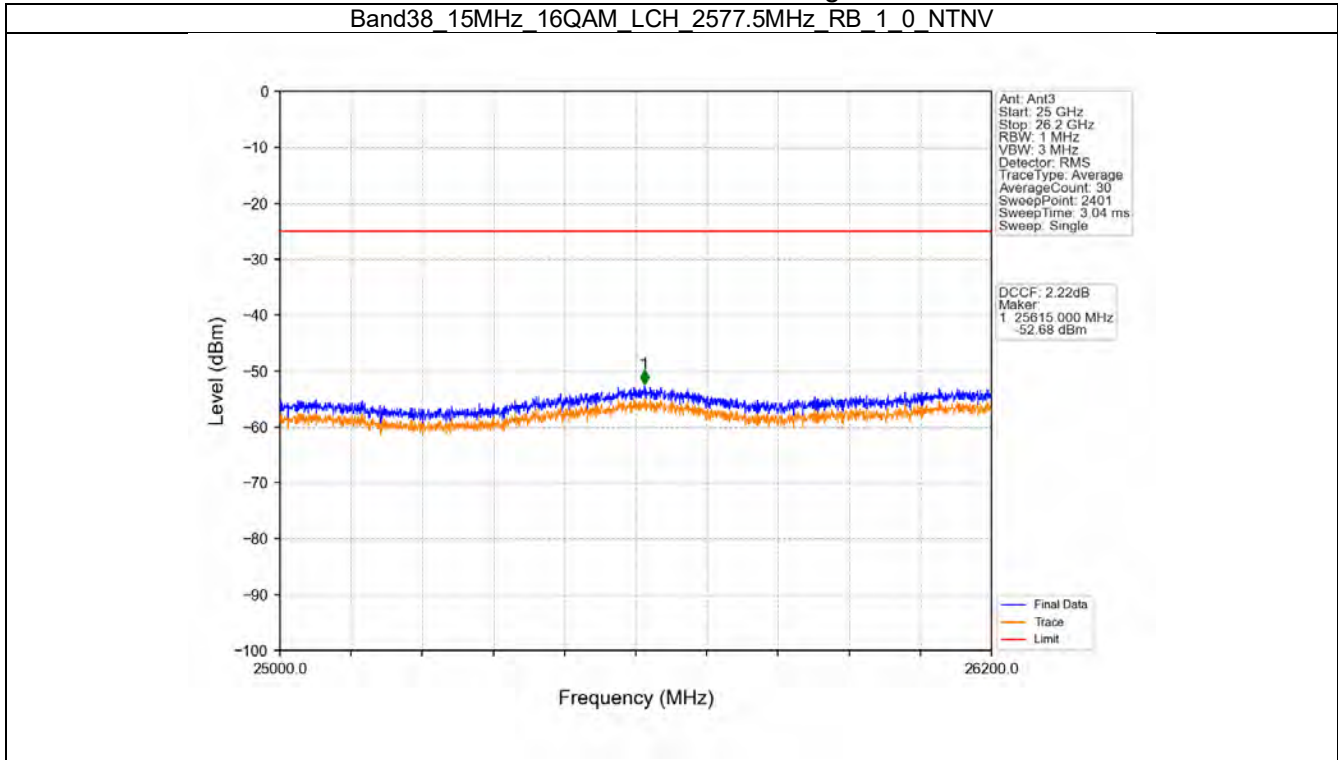
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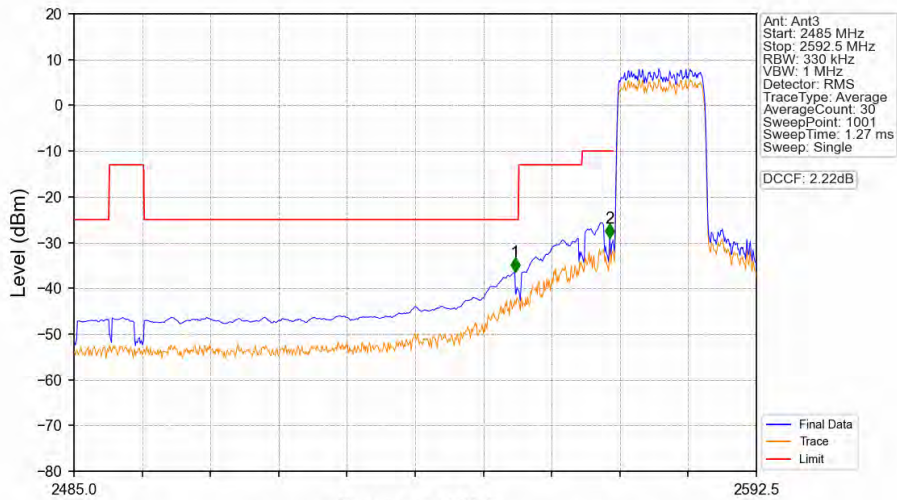
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2554.445	-36.51	-25	Pass
2569	2570	0.33	/	2	2569.387	-29.04	-10	Pass
2570	2592.5	0.33	/	/	/	/	/	/

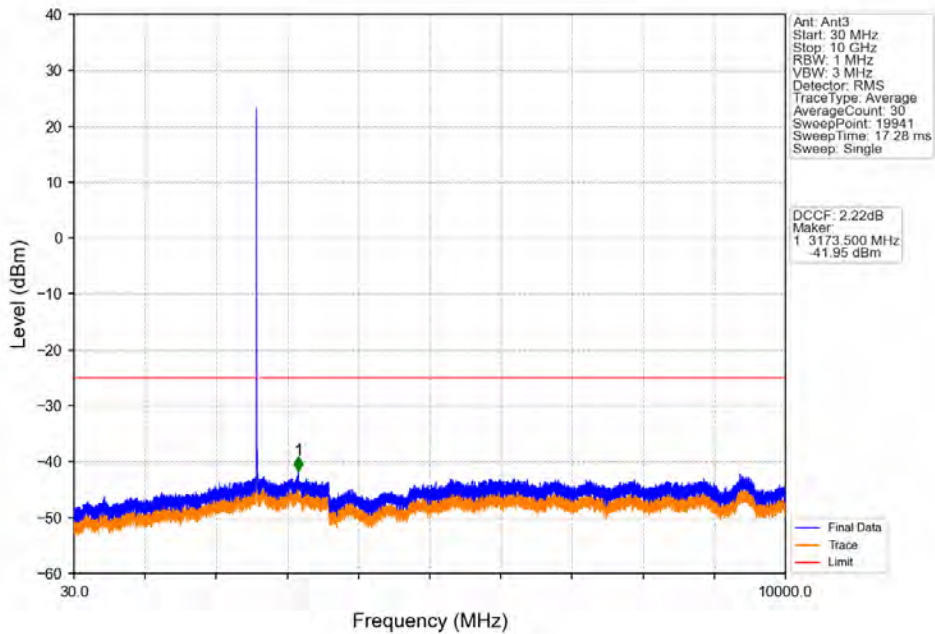


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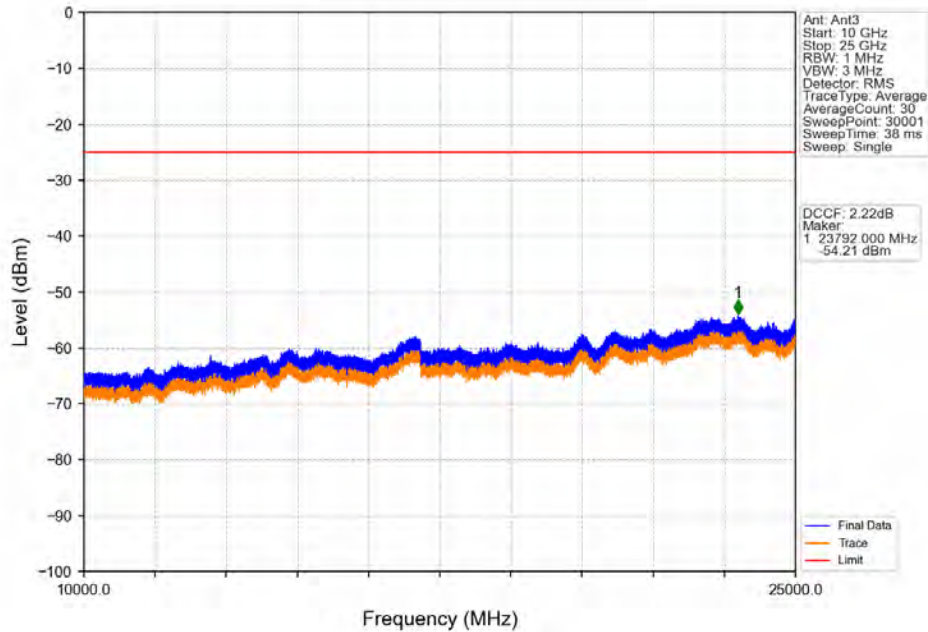


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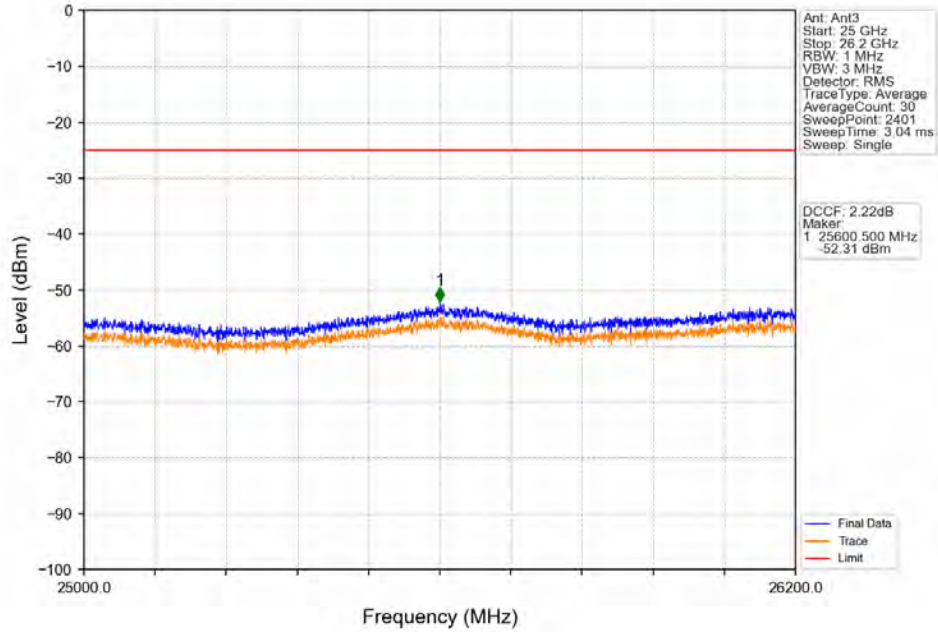


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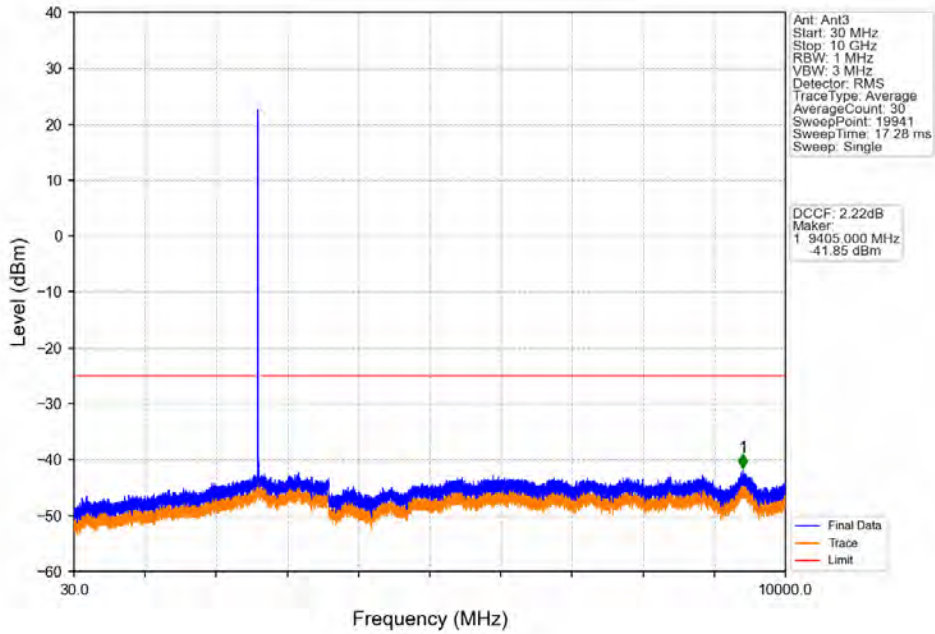
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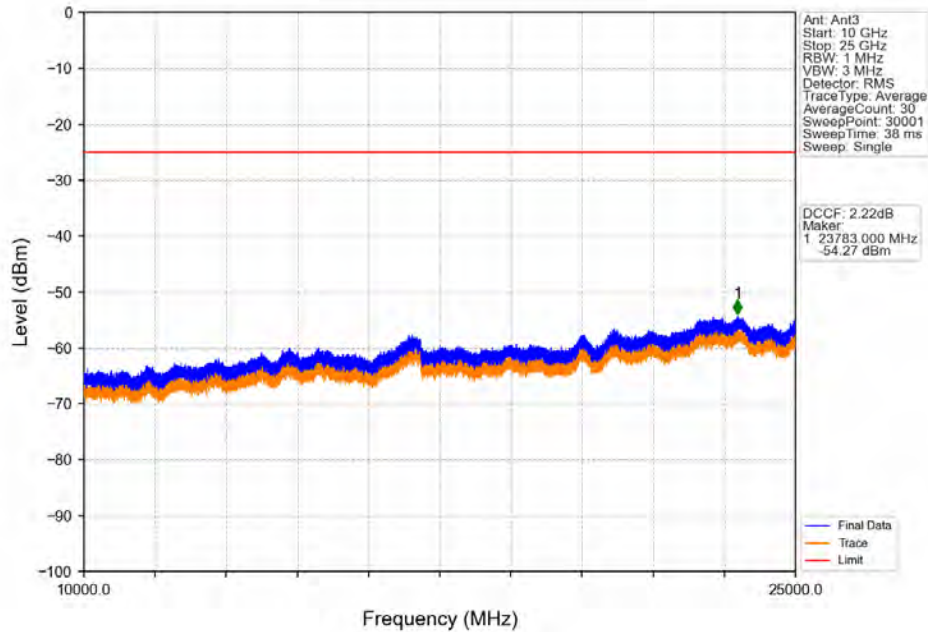


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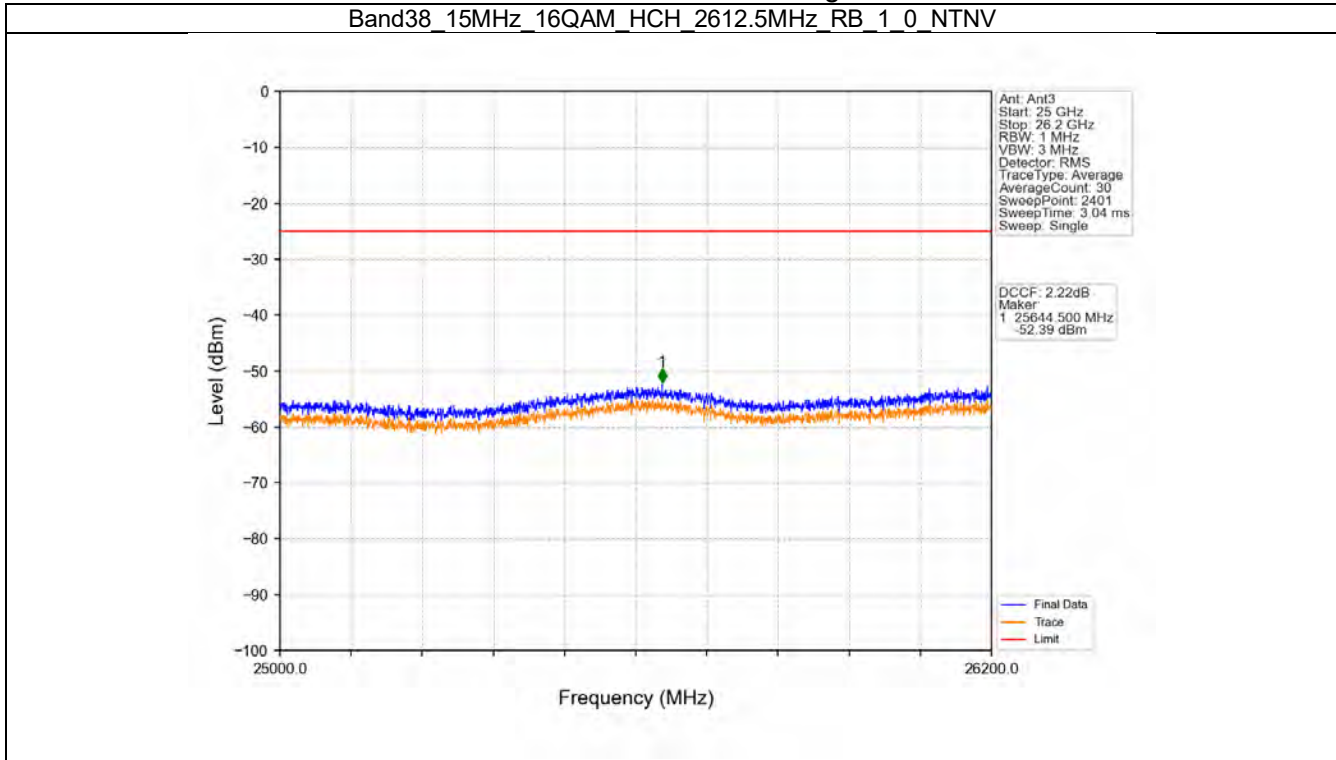
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Band38_15MHz_16QAM_HCH_2612.5MHz_RB_1_0_NTNV



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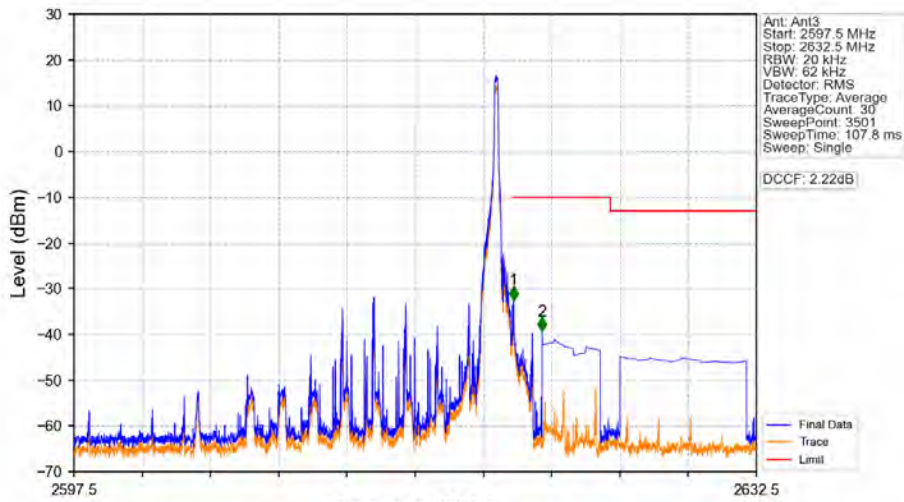
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Band38_15MHz_16QAM_HCH_2612.5MHz_RB_1_74_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2597.5	2620	0.02	/	1	2620.040	-32.55	-10	Pass
2620	2621	0.02	/	2	2621.510	-39.30	-10	Pass
2621	2632.5	1	CHP					



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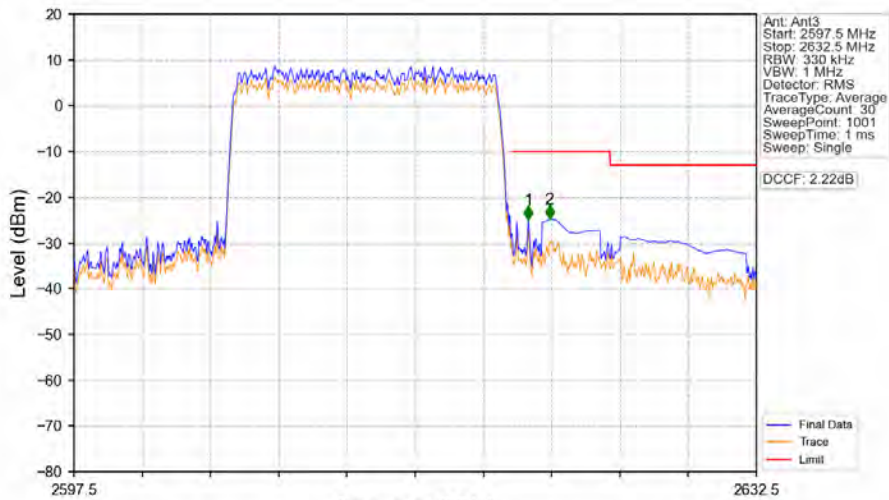
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Band38_15MHz_16QAM_HCH_2612.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2597.5	2620	0.33	/	/	/	/	/	/
2620	2621	0.33	/	1	2620.810	-24.98	-10	Pass
2621	2632.5	1	CHP	2	2621.895	-24.82	-10	Pass

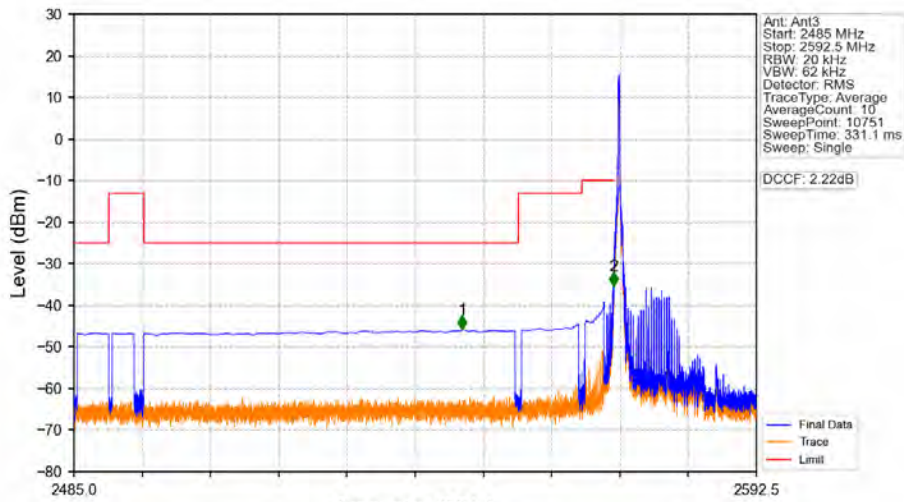


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Band38_15MHz_64QAM_LCH_2577.5MHz_RB_1_0_NTNV



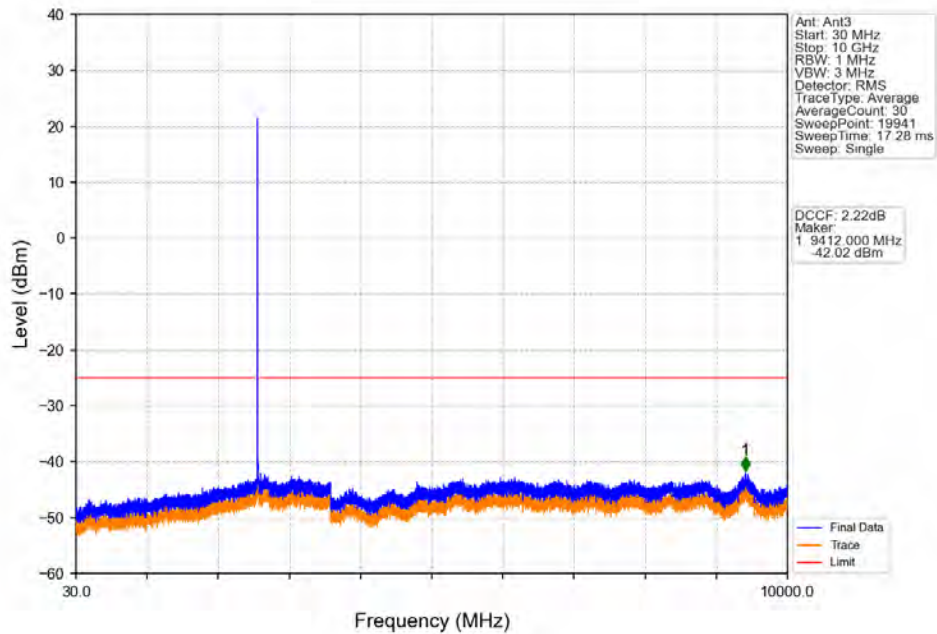
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2546.180	-45.93	-25	Pass
2569	2570	0.02	/	2	2570.000	-35.45	-10	Pass
2570	2592.5	0.02	/	/	/	/	/	/



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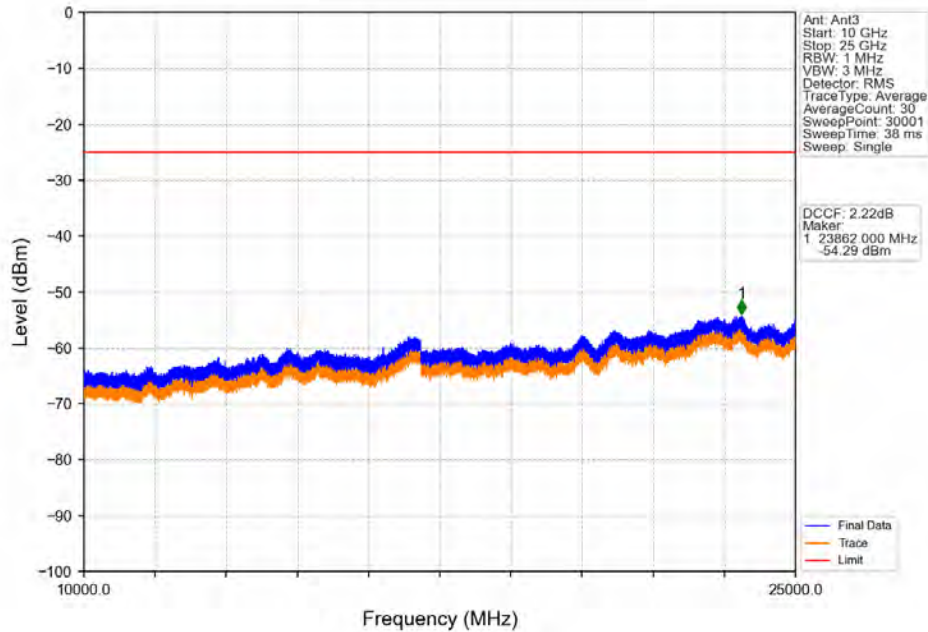


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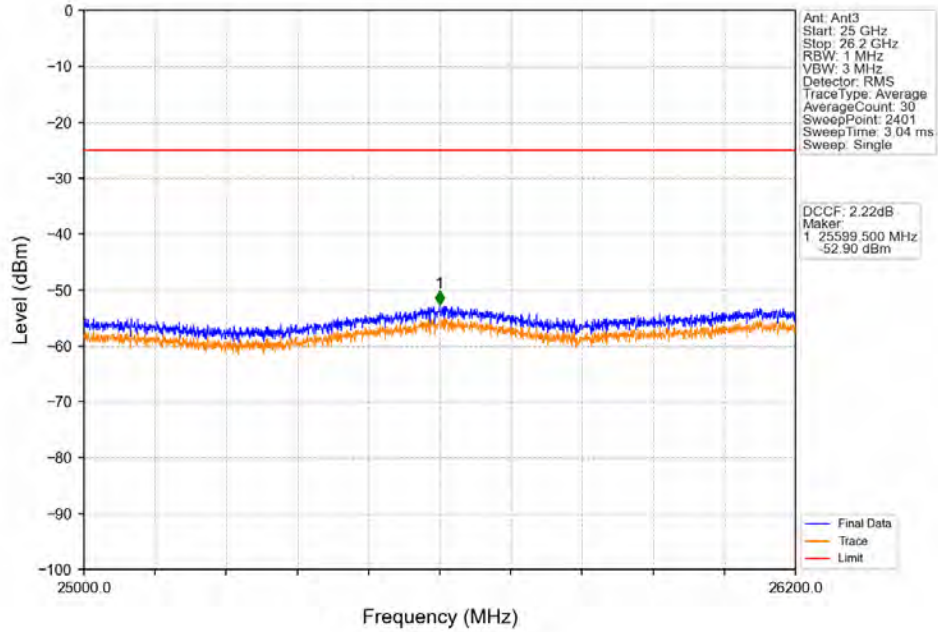


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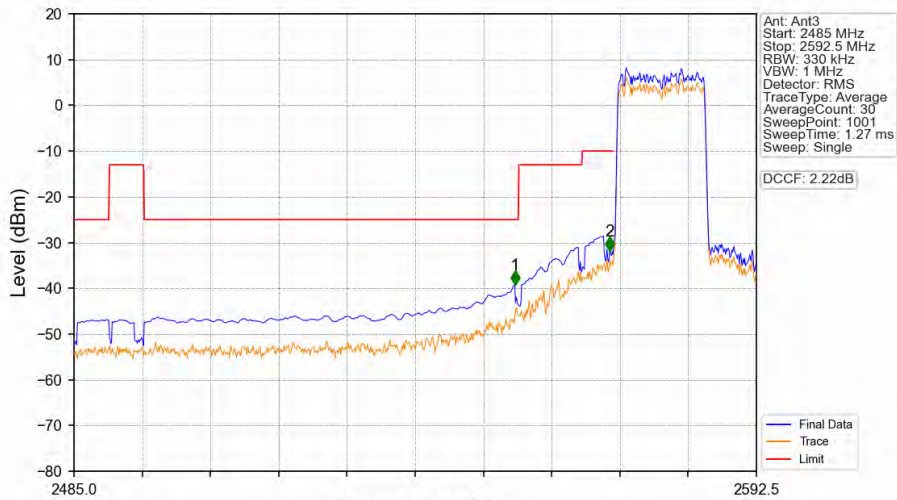
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Band38_15MHz_64QAM_LCH_2577.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2554.445	-39.24	-25	Pass
2569	2570	0.33	/	2	2569.387	-31.84	-10	Pass
2570	2592.5	0.33	/	/	/	/	/	/



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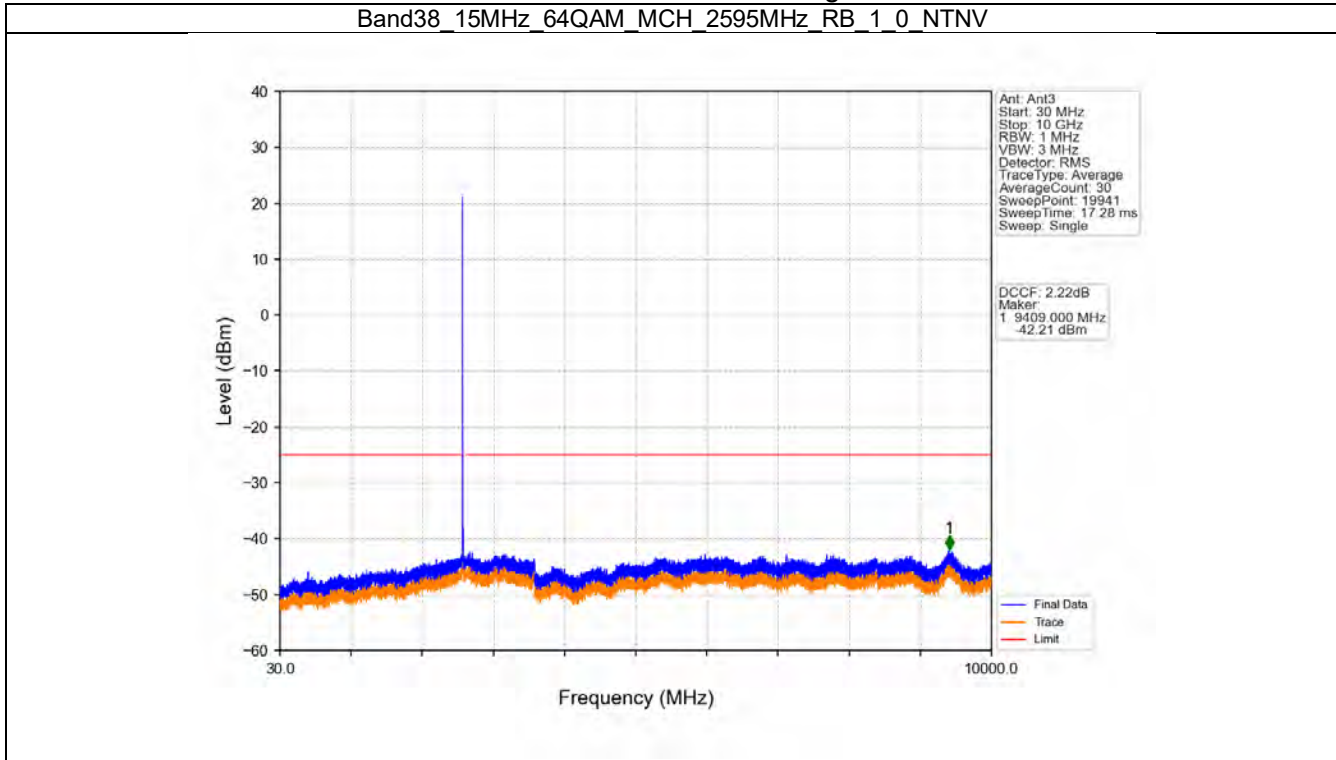
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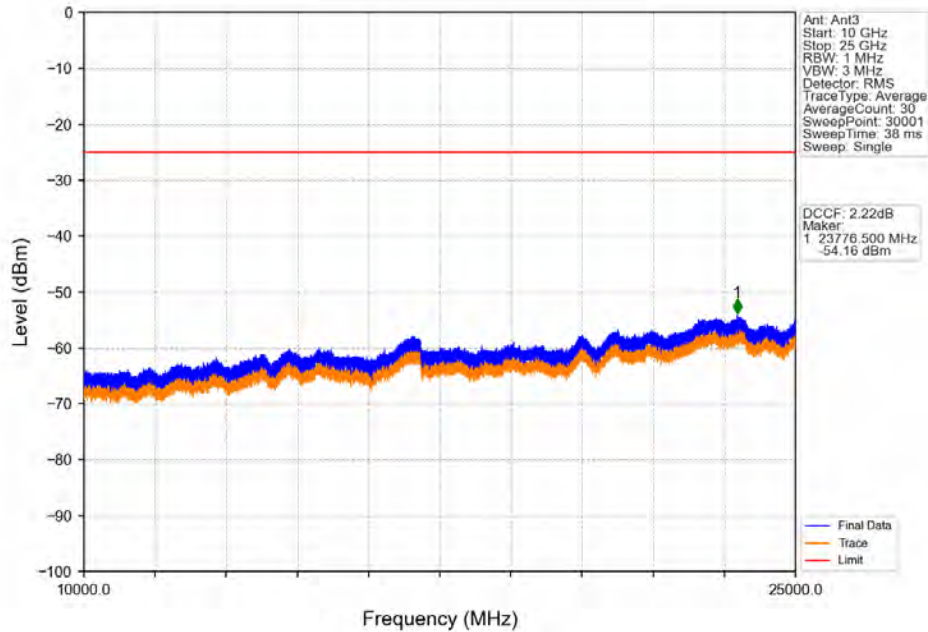
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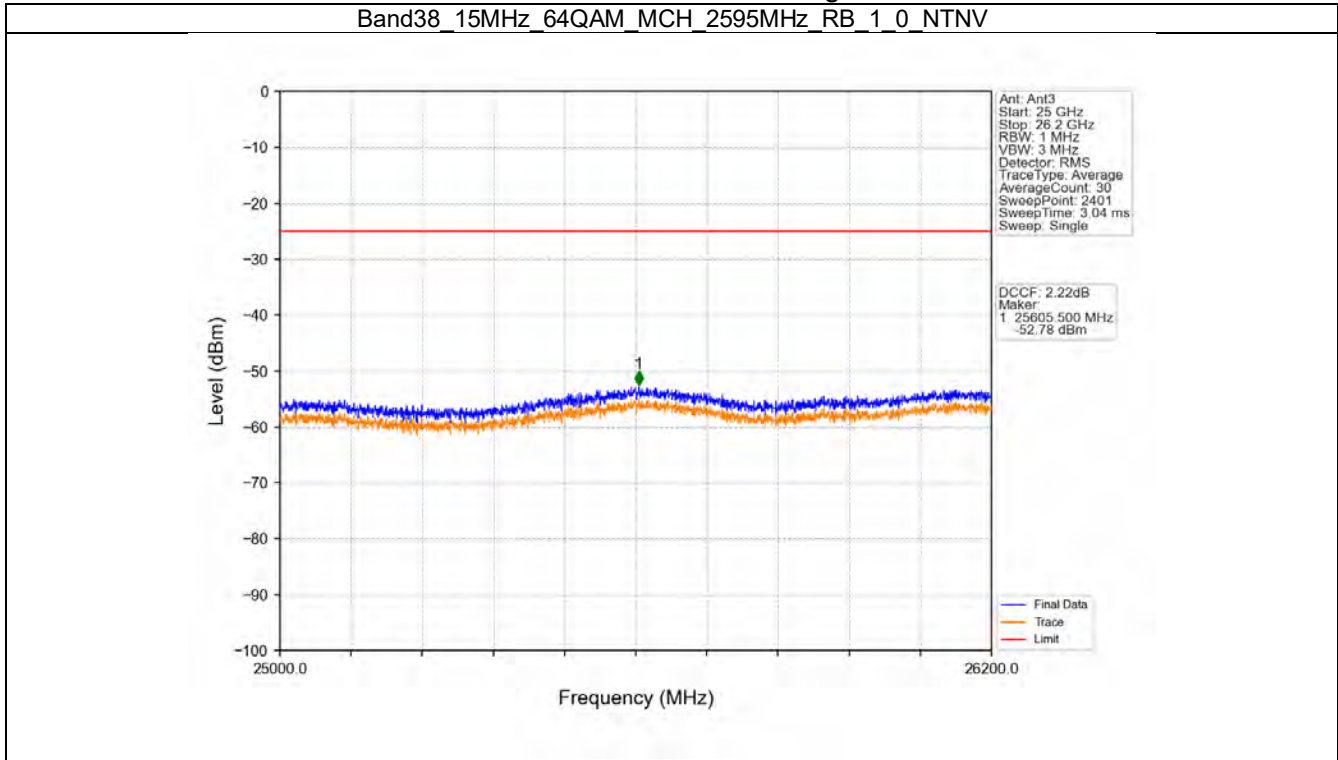


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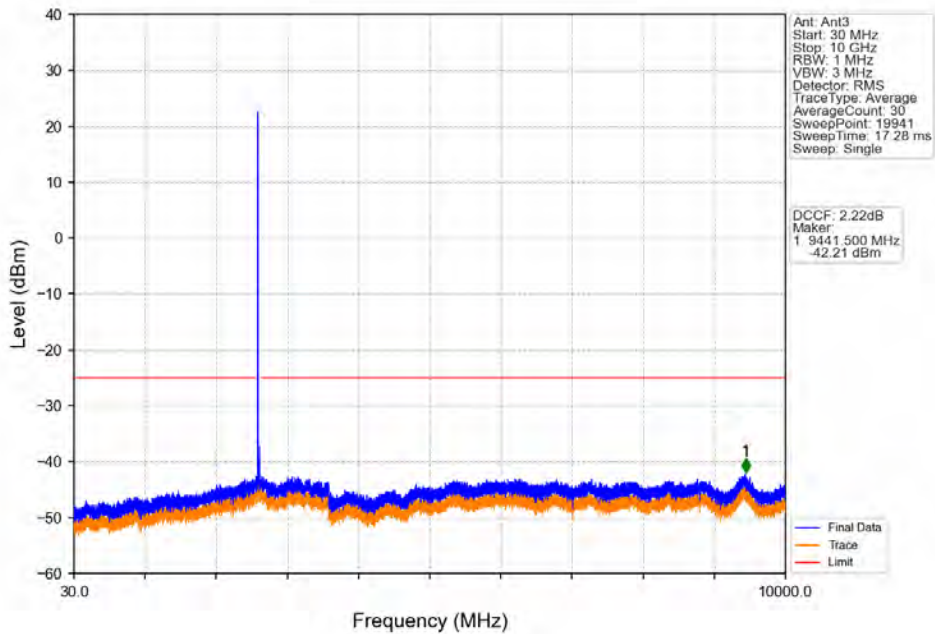


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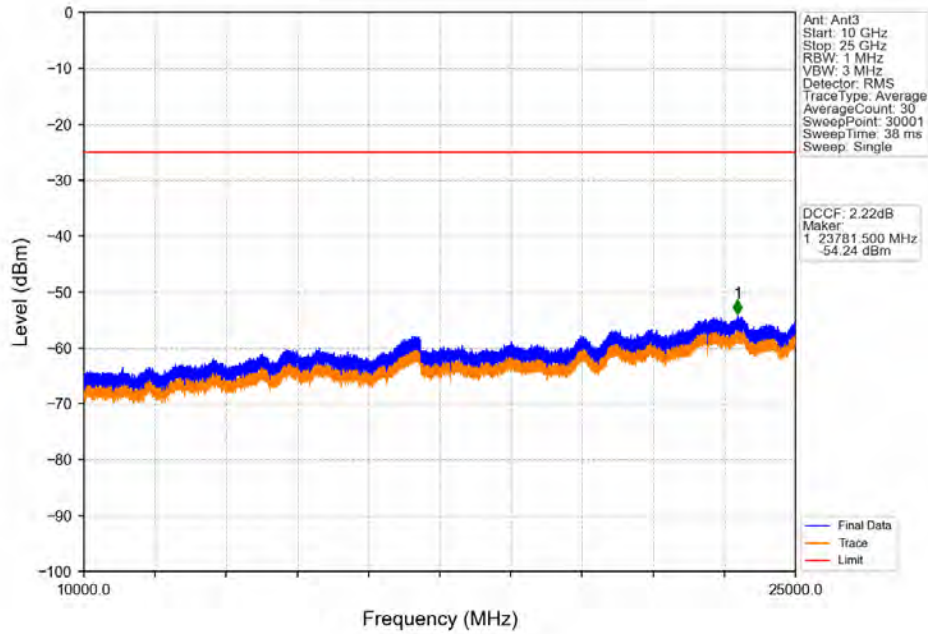


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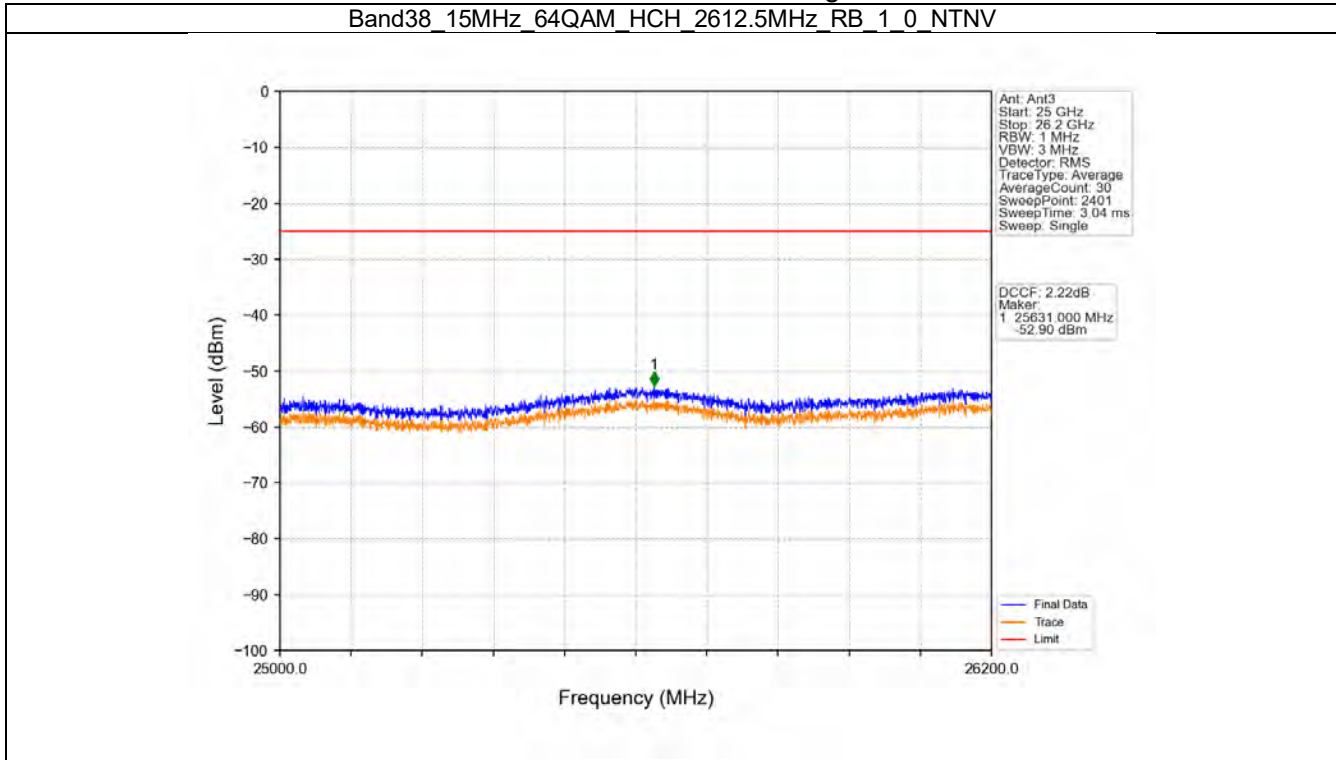
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Band38_15MHz_64QAM_HCH_2612.5MHz_RB_1_0_NTNV



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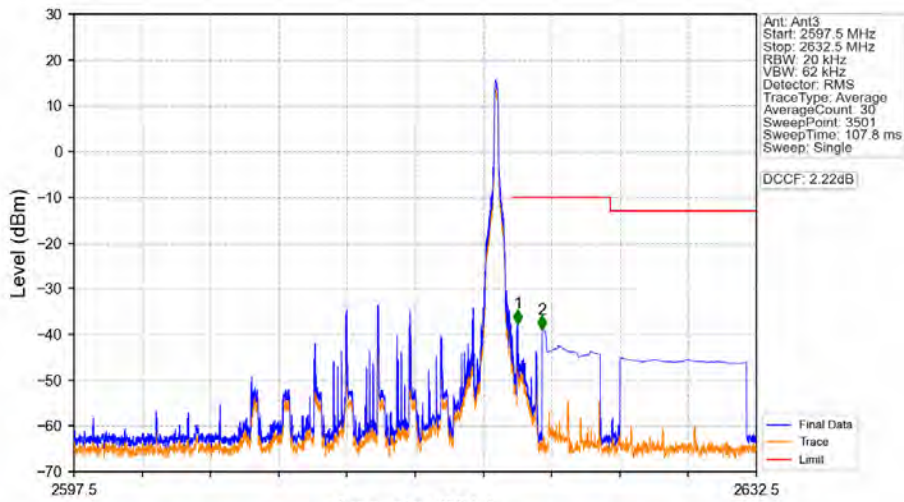
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Band38_15MHz_64QAM_HCH_2612.5MHz_RB_1_74_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2597.5	2620	0.02	/	1	2620.260	-37.64	-10	Pass
2621	2632.5	1	CHP	2	2621.510	-39.04	-10	Pass



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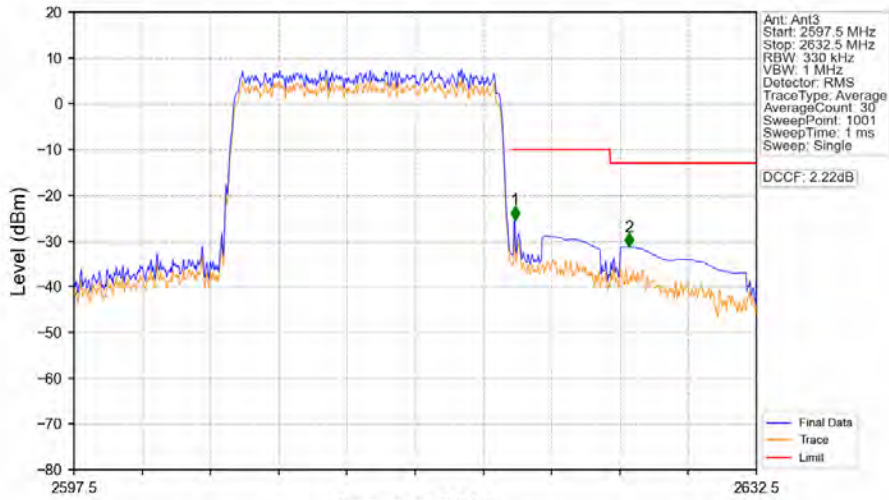
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Band38_15MHz_64QAM_HCH_2612.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2597.5	2620	0.33	/	/	/	/	/	/
2620	2621	0.33	/	1	2620.110	-25.43	-10	Pass
2621	2632.5	1	CHP	2	2625.955	-31.30	-13	Pass



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5.4 B38_20MHz

5.4.1 Test Result

Band: 38 / Bandwidth: 20MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2610	1	0	Refer To Test Graph		Pass
		1	99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
16QAM	2580	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2610	1	0	Refer To Test Graph		Pass
		1	99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
64QAM	2580	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2610	1	0	Refer To Test Graph		Pass
		1	99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

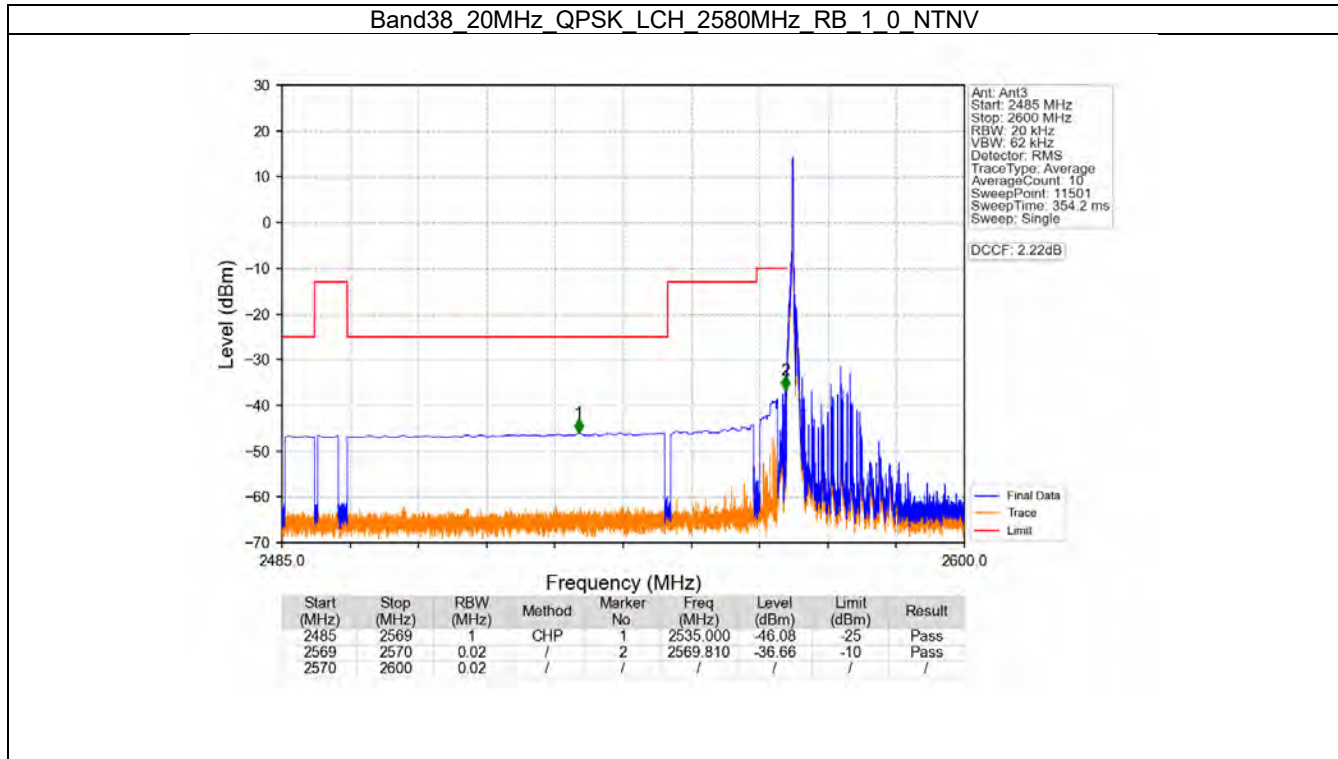


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5.4.2 Test Graph

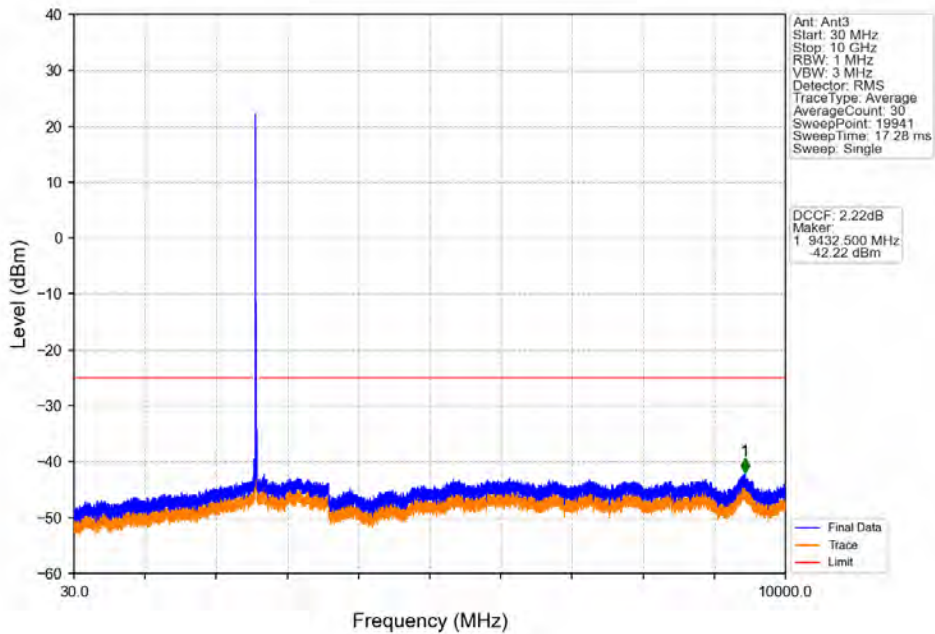


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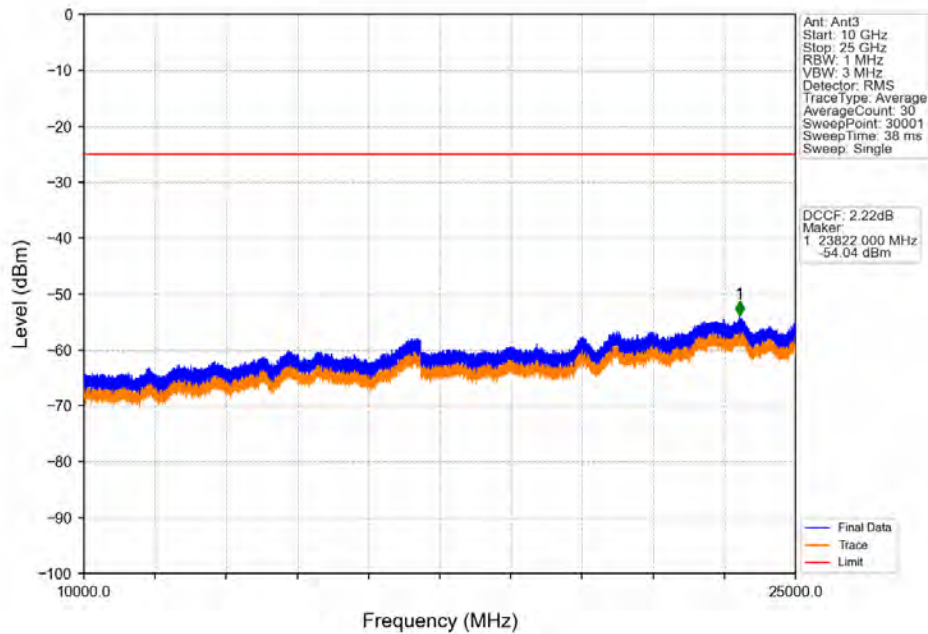


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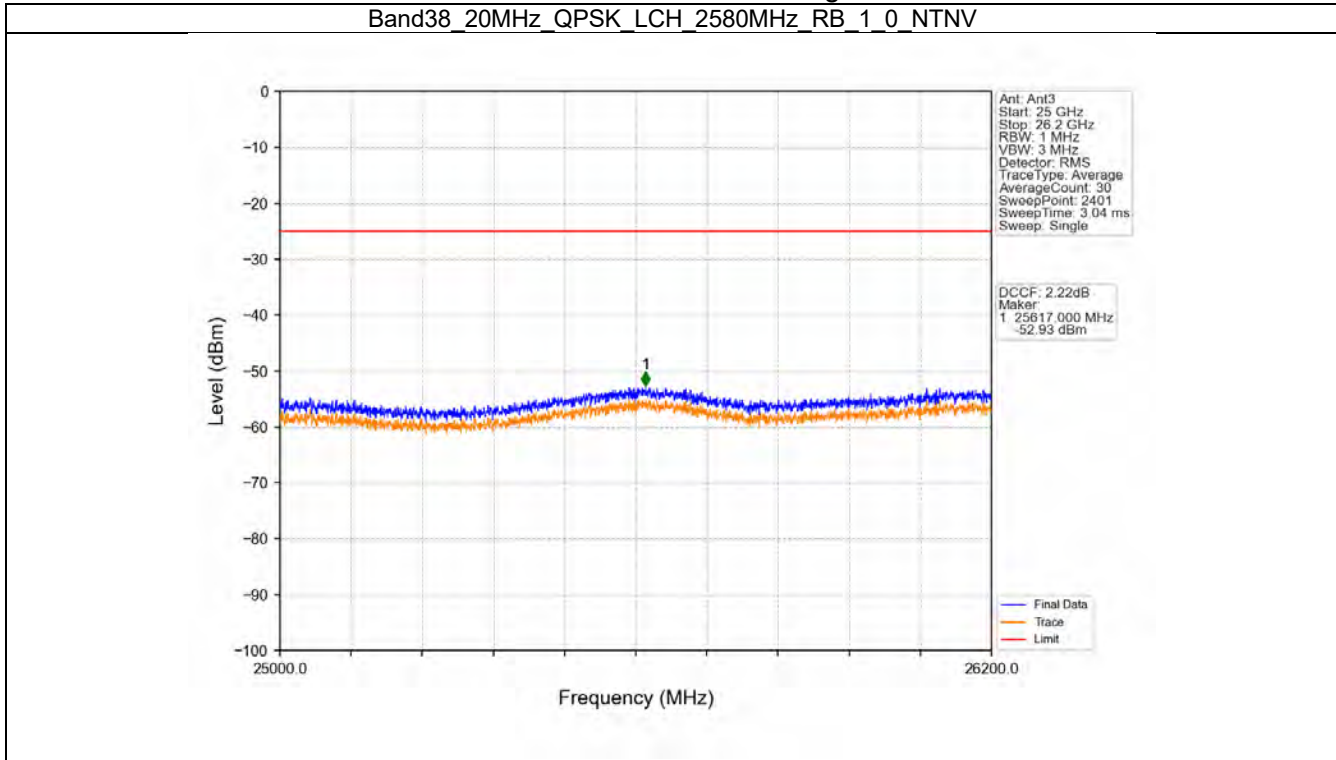


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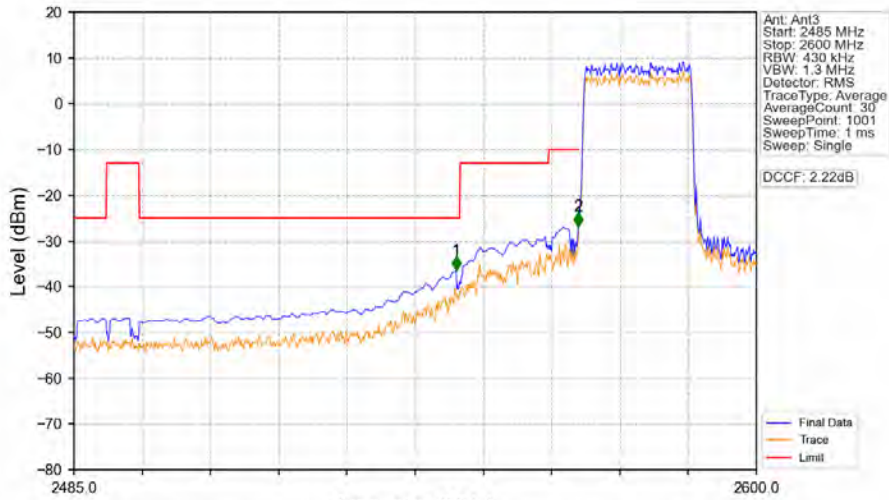
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2549.400	-36.48	-25	Pass
2569	2570	0.43	/	2	2569.985	-26.85	-10	Pass
2570	2600	0.43	/	/	/	/	/	/



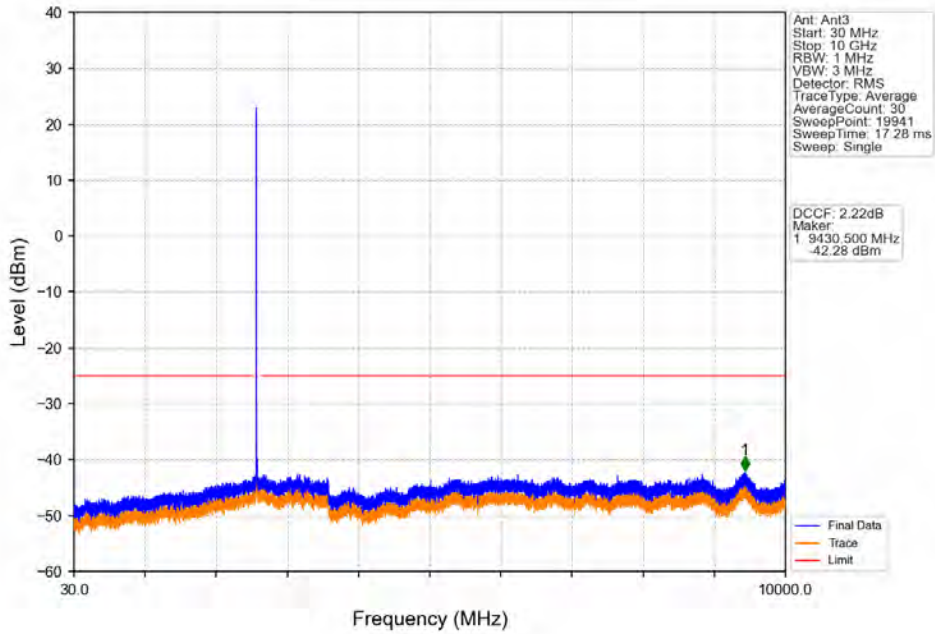
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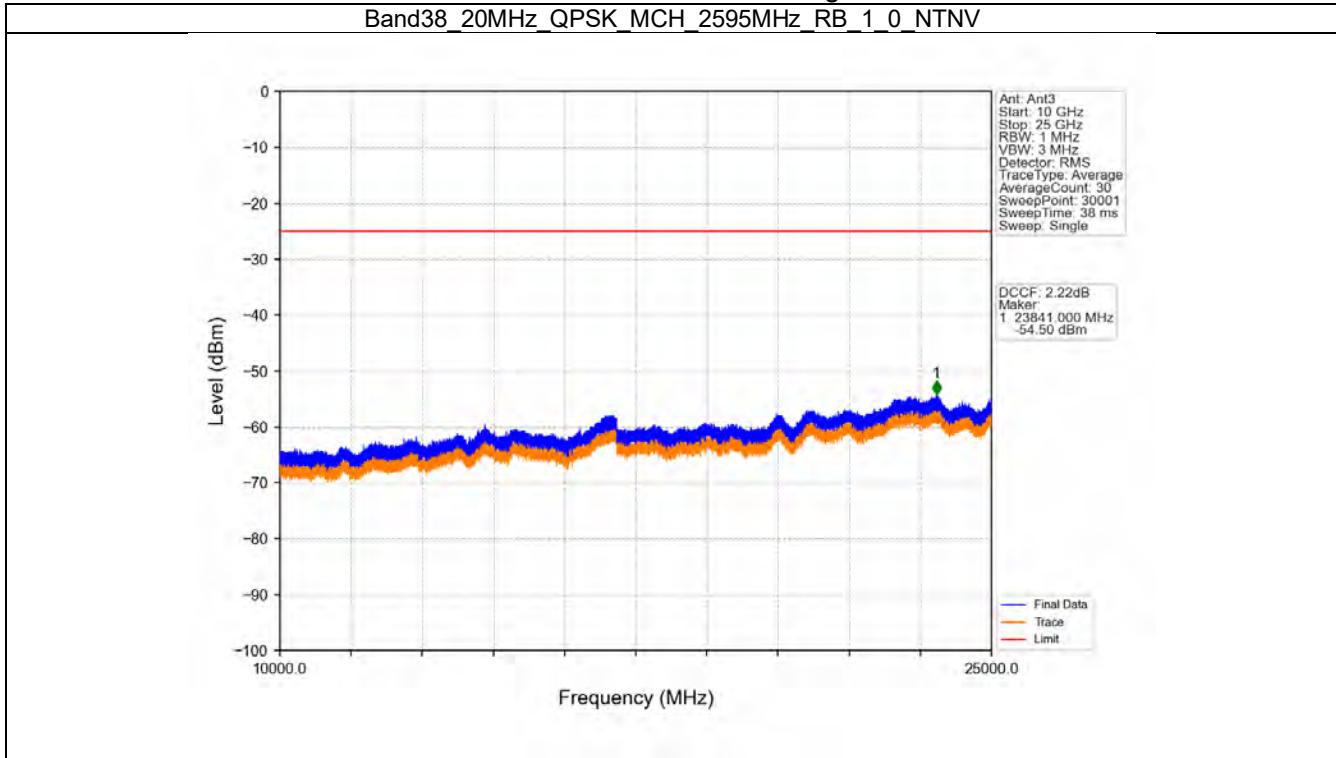


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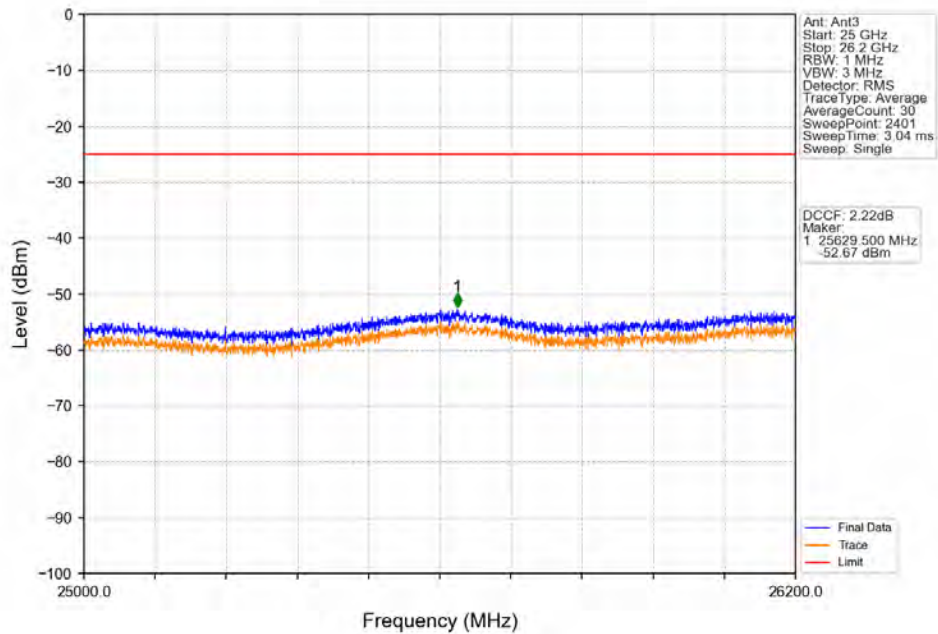


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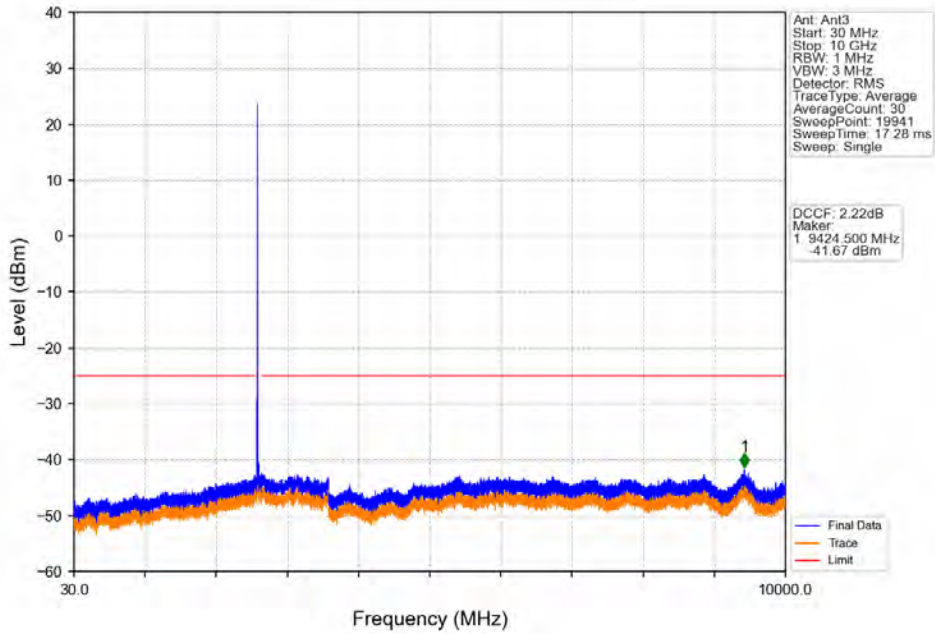


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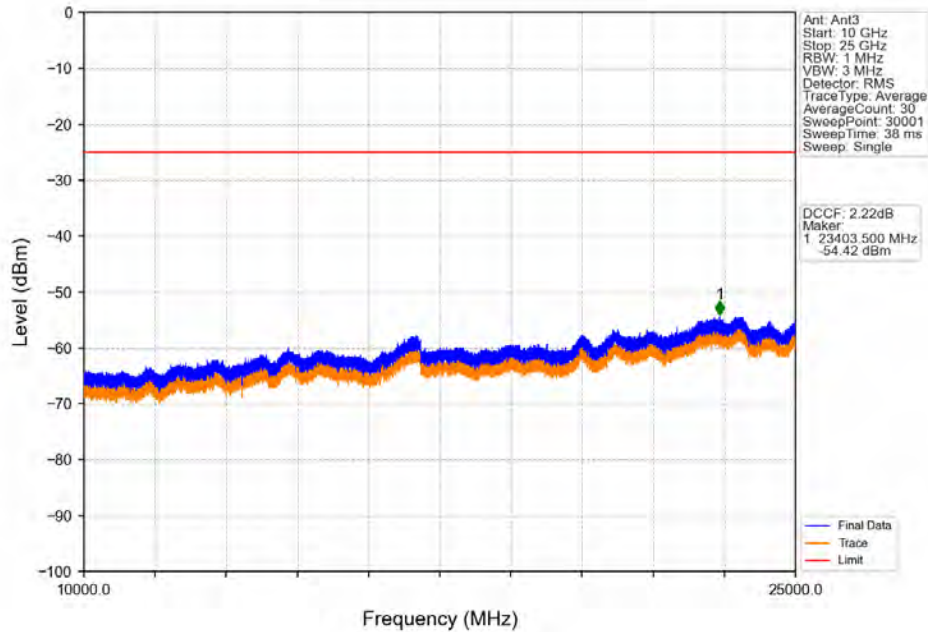


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Band38_20MHz_QPSK_HCH_2610MHz_RB_1_0_NTNV

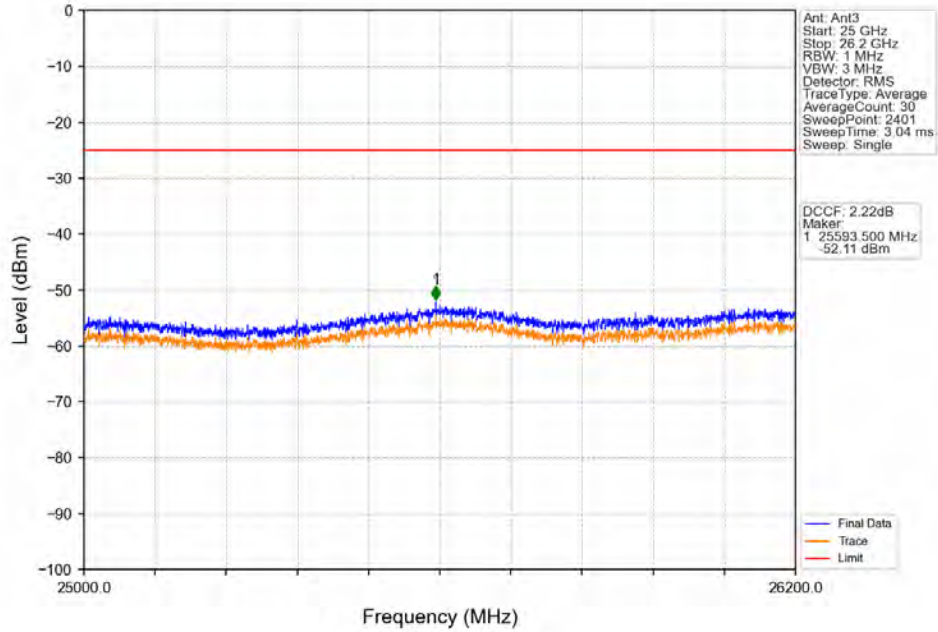


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Band38_20MHz_QPSK_HCH_2610MHz_RB_1_0_NTNV



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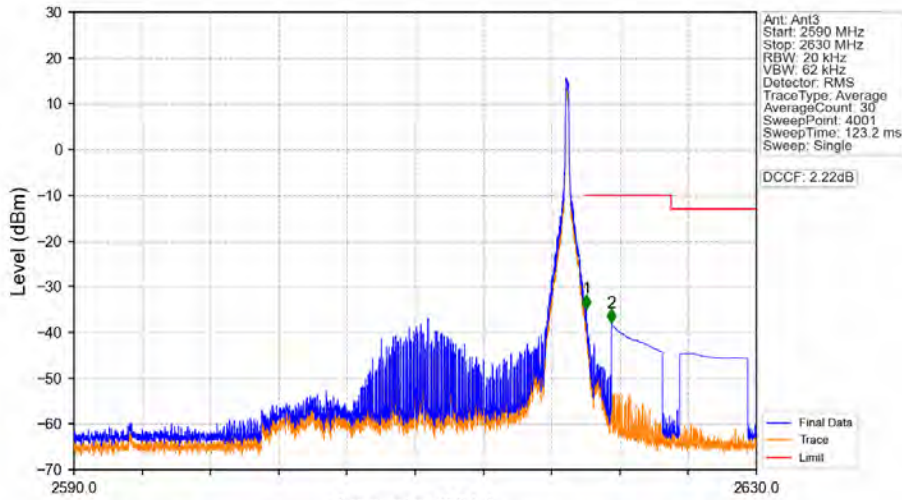
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Band38_20MHz_QPSK_HCH_2610MHz_RB_1_99_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2590	2620	0.02	/	1	2620.040	-34.84	-10	Pass
2620	2621	0.02	/	1	2620.040	-34.84	-10	Pass
2621	2630	1	CHP	2	2621.510	-37.93	-10	Pass



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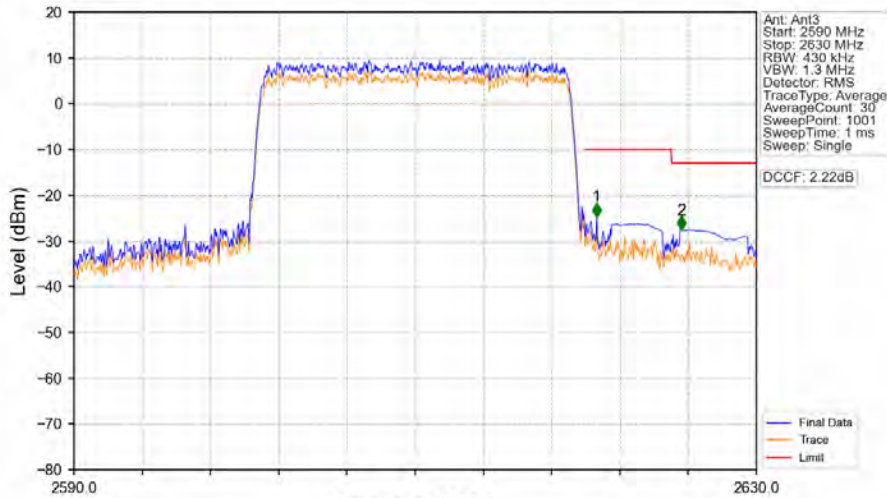
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Band38_20MHz_QPSK_HCH_2610MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2590	2620	0.43	/	/	/	/	/	/
2620	2621	0.43	/	1	2620.640	-24.72	-10	Pass
2621	2630	1	CHP	2	2625.600	-27.59	-13	Pass



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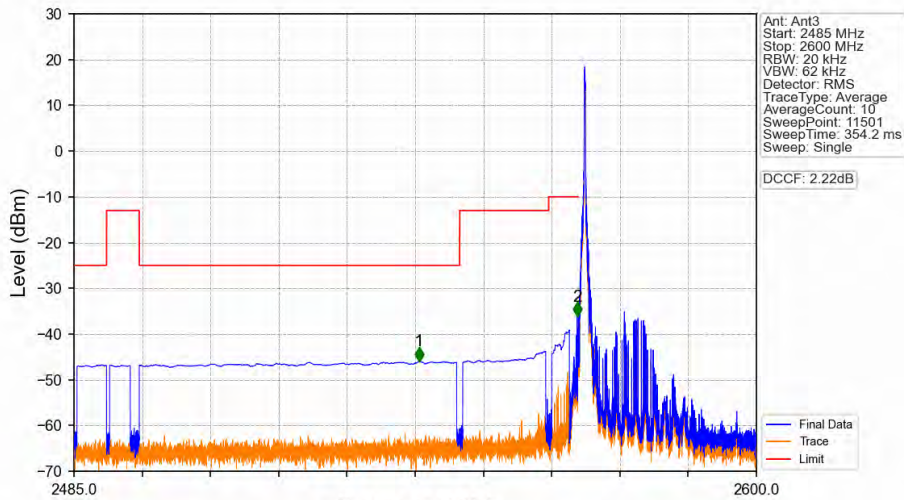
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Band38_20MHz_16QAM_LCH_2580MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2543.160	-45.92	-25	Pass
2569	2570	0.02	/	2	2569.800	-36.21	-10	Pass
2570	2600	0.02	/	/	/	/	/	/



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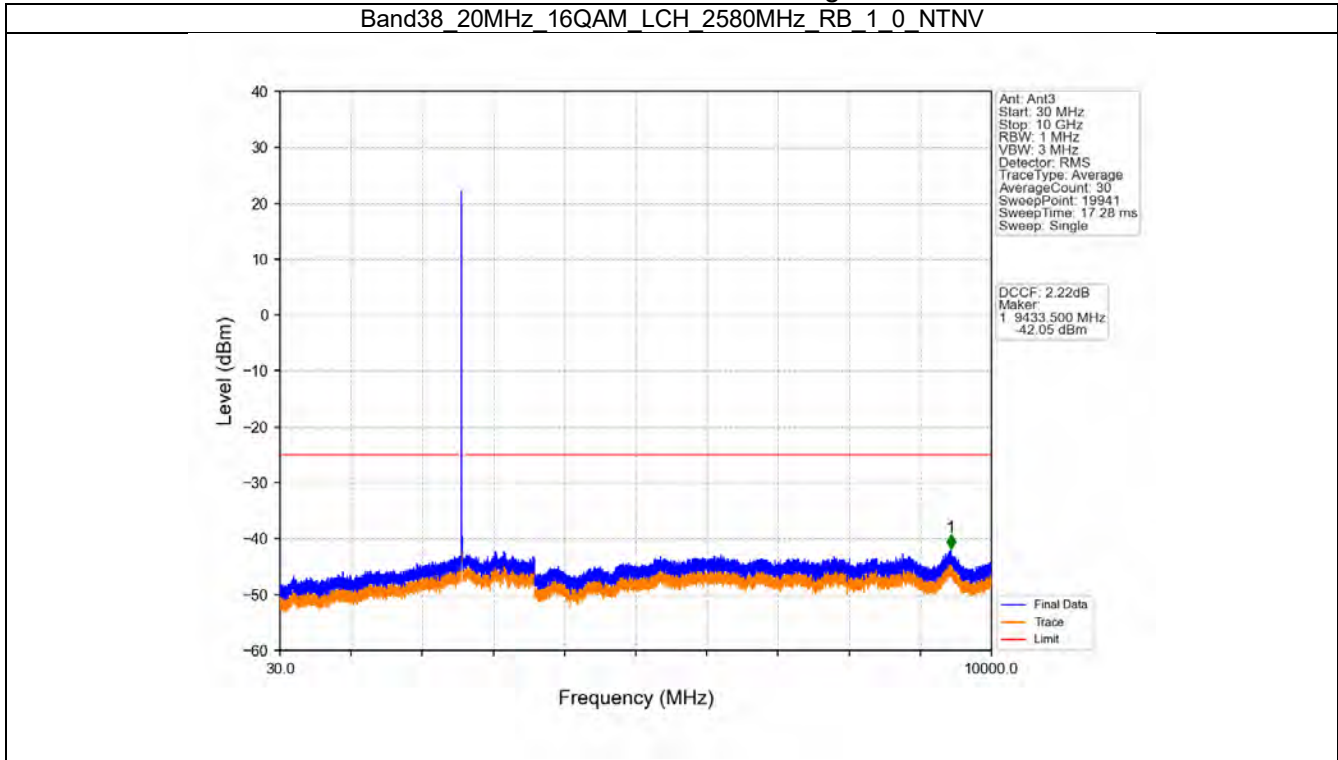
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Band38_20MHz_16QAM_LCH_2580MHz_RB_1_0_NTNV

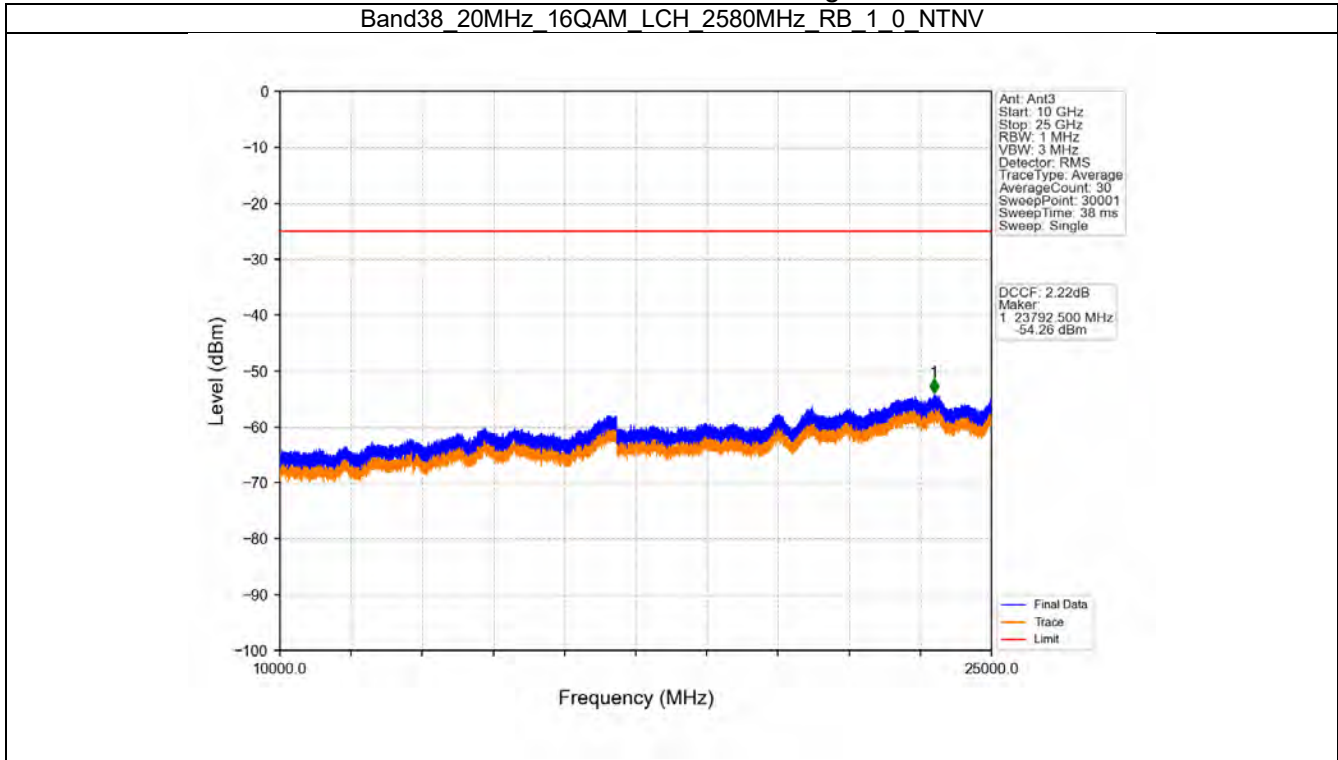


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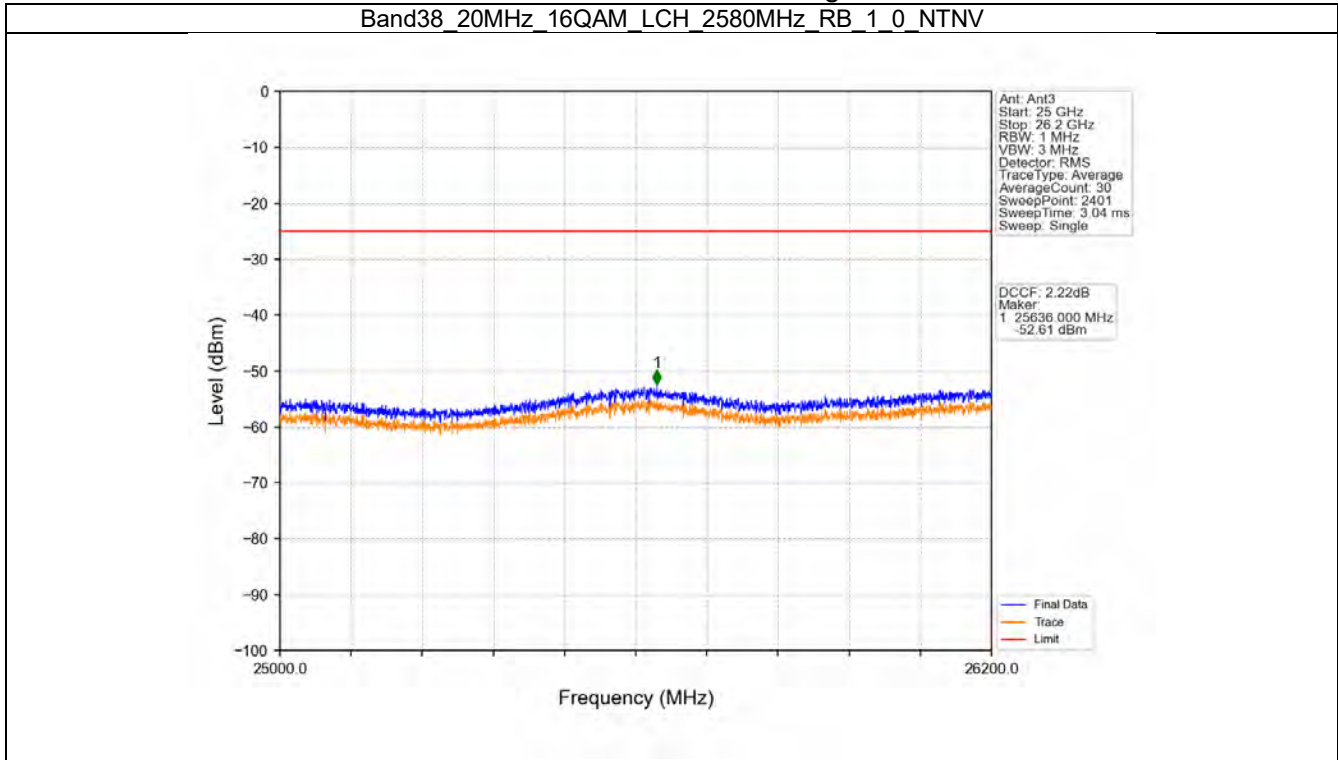


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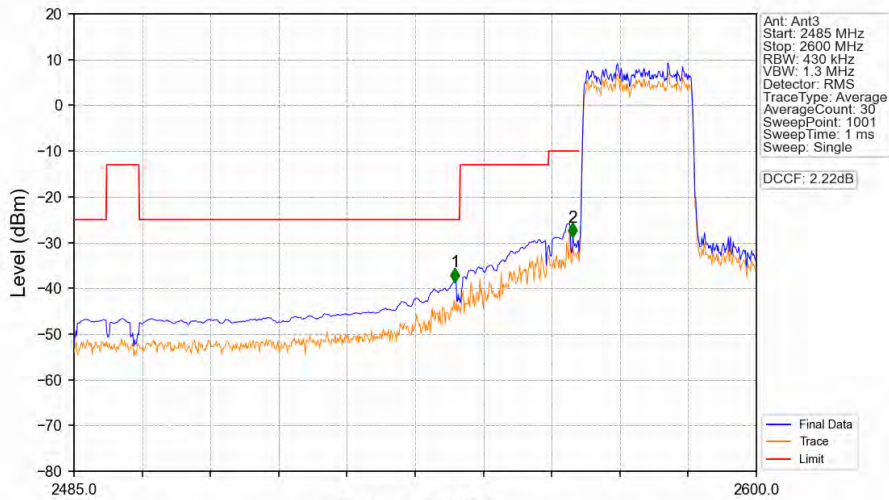
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2549.170	-38.64	-25	Pass
2569	2570	0.43	/	2	2569.065	-28.80	-10	Pass
2570	2600	0.43	/	/	/	/	/	/



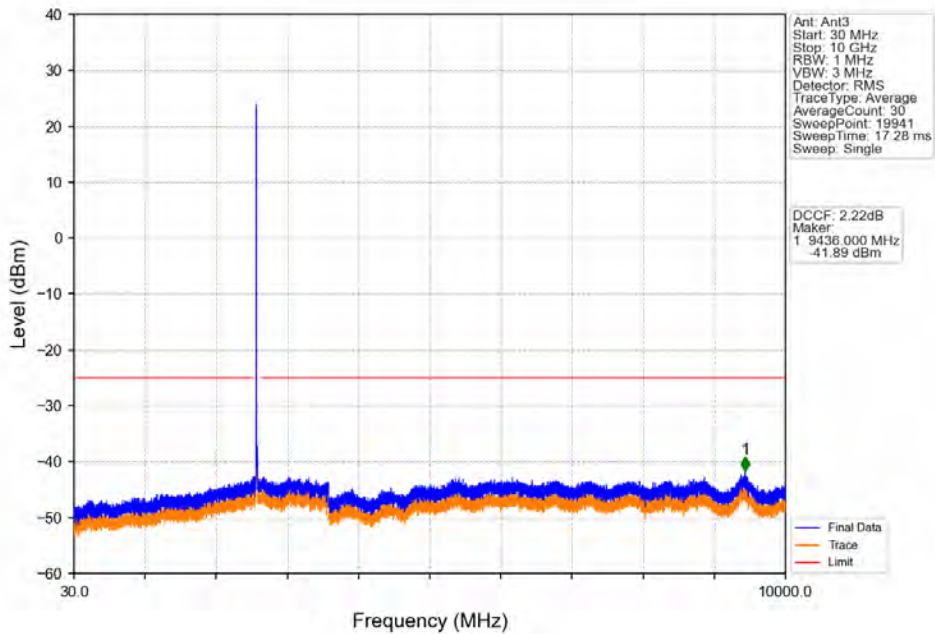
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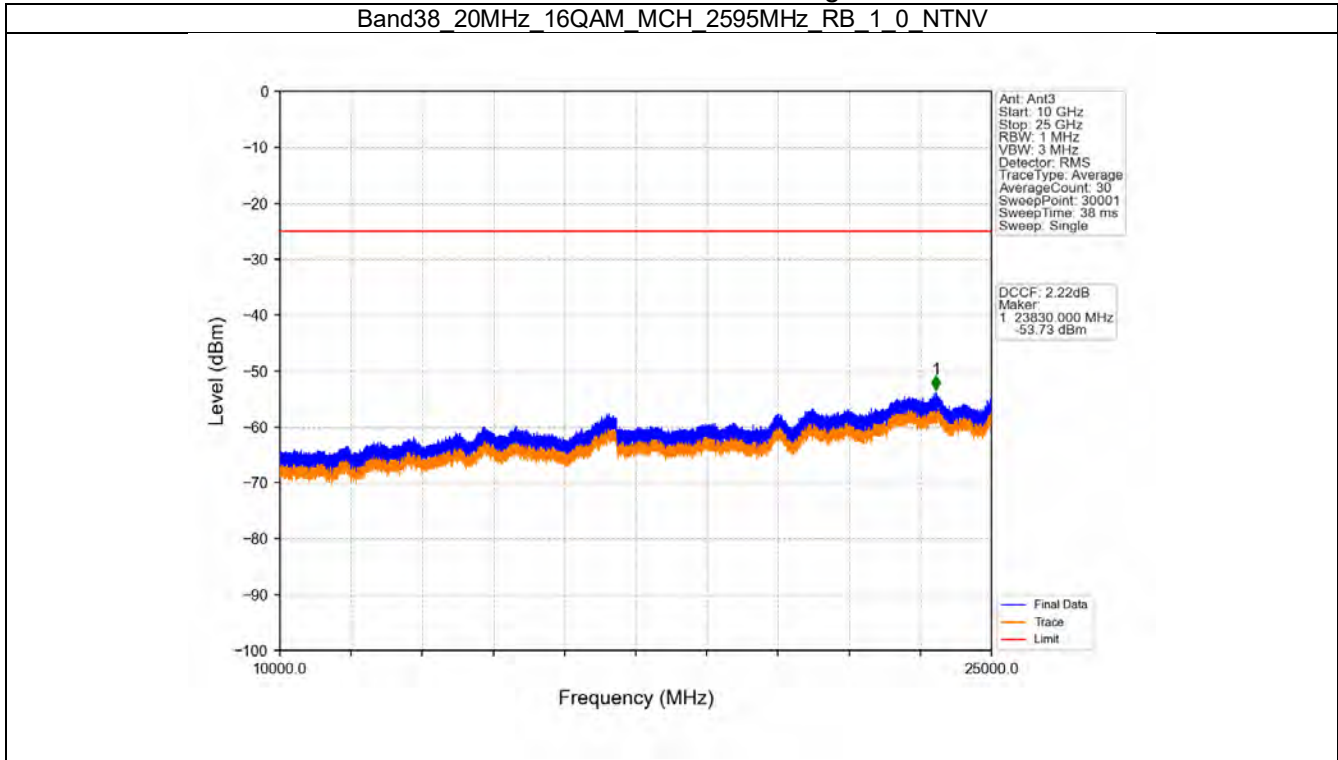
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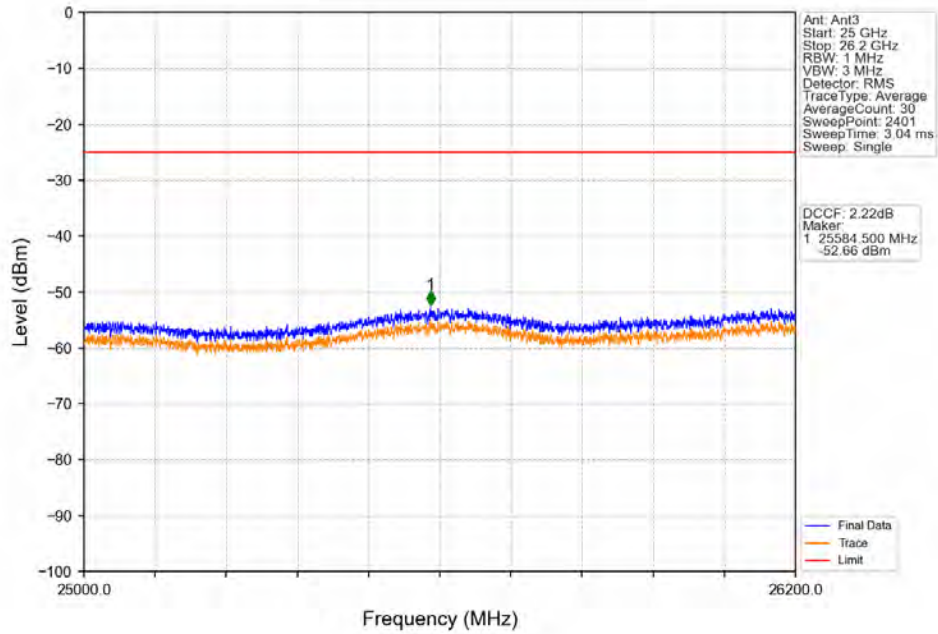


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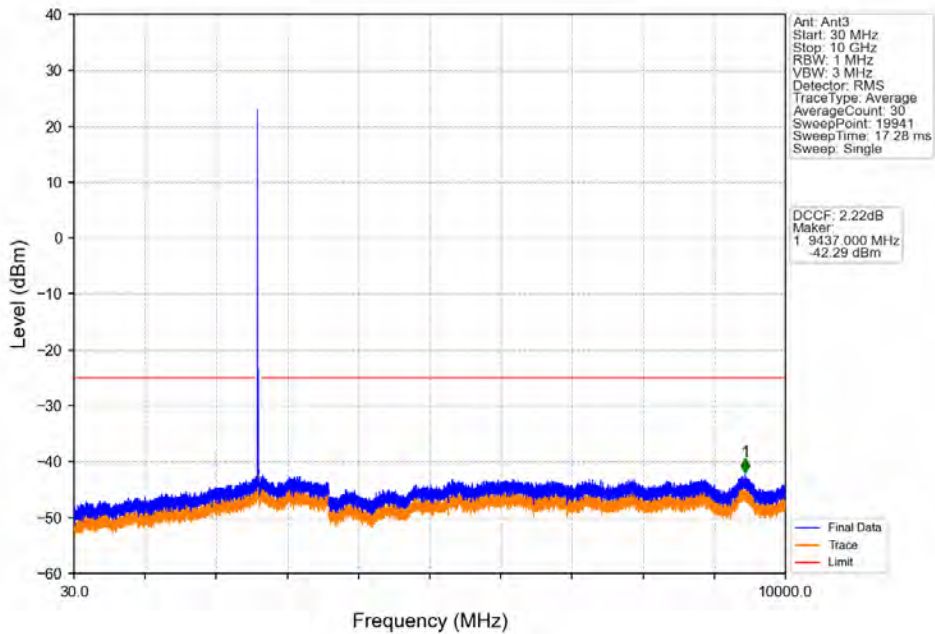


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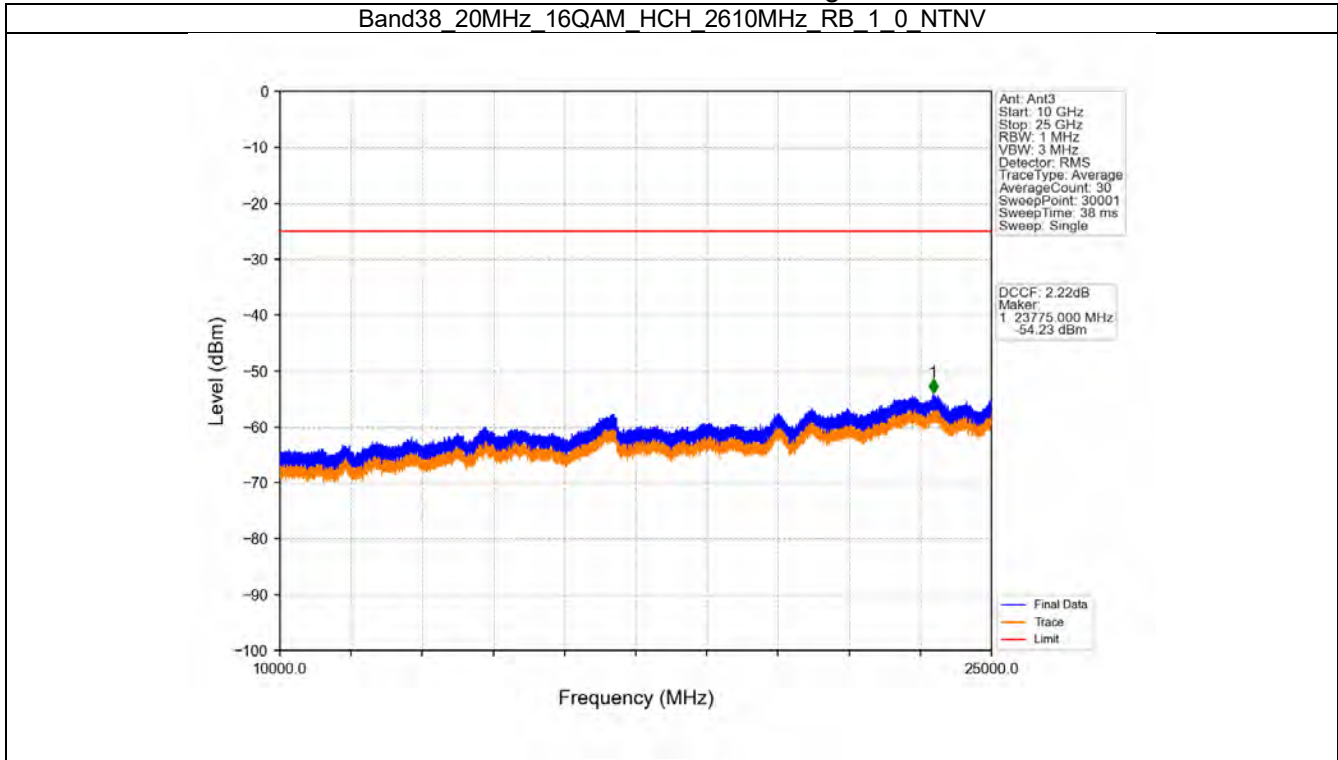


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Band38_20MHz_16QAM_HCH_2610MHz_RB_1_0_NTNV



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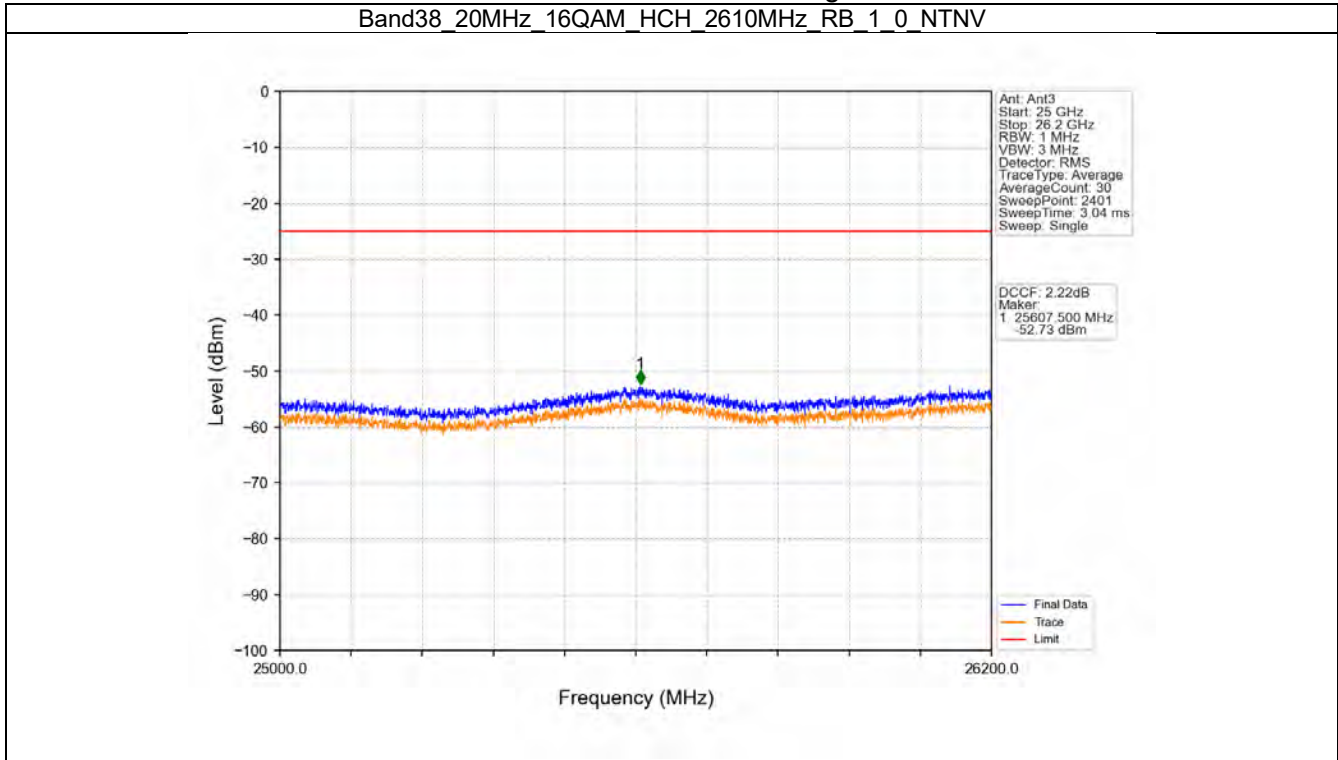
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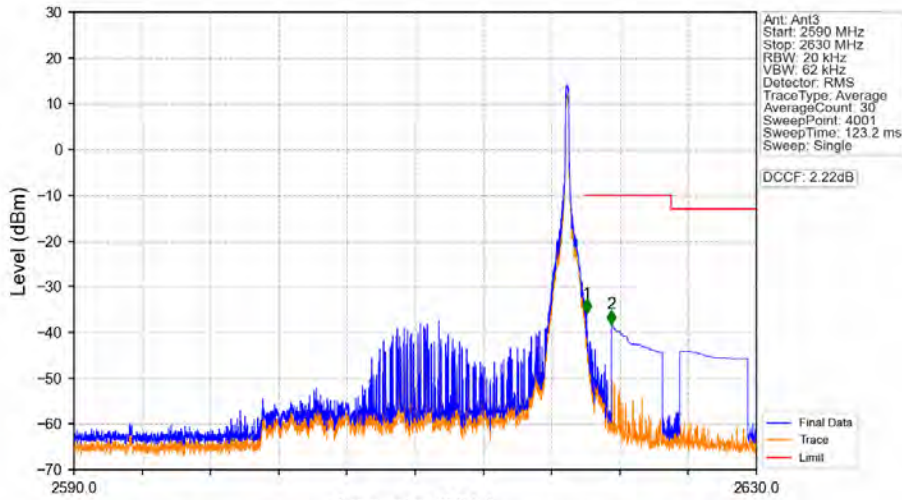
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Band38_20MHz_16QAM_HCH_2610MHz_RB_1_99_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2590	2620	0.02	/	1	2620.050	-35.80	-10	Pass
2620	2621	0.02	/	1	2620.050	-35.80	-10	Pass
2621	2630	1	CHP	2	2621.510	-38.19	-10	Pass



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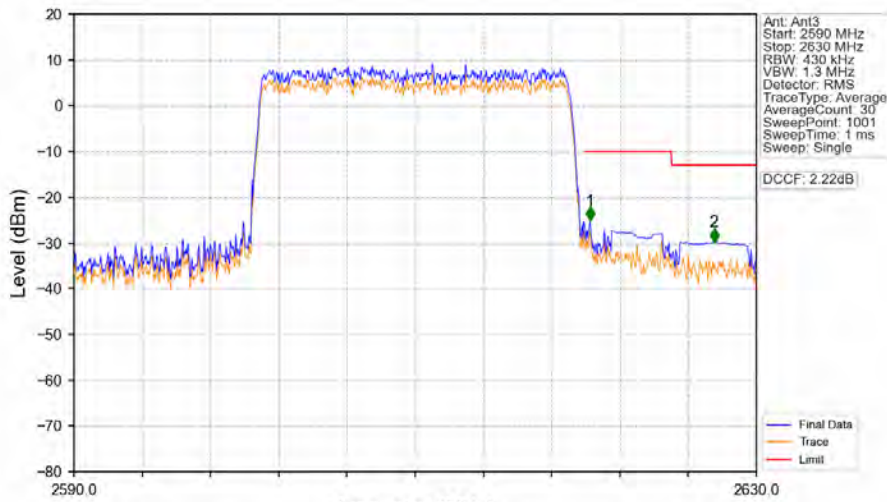
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Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2590	2620	0.43	/	/	/	/	/	/
2620	2621	0.43	/	1	2620.240	-25.20	-10	Pass
2621	2630	1	CHP	2	2627.520	-29.83	-13	Pass



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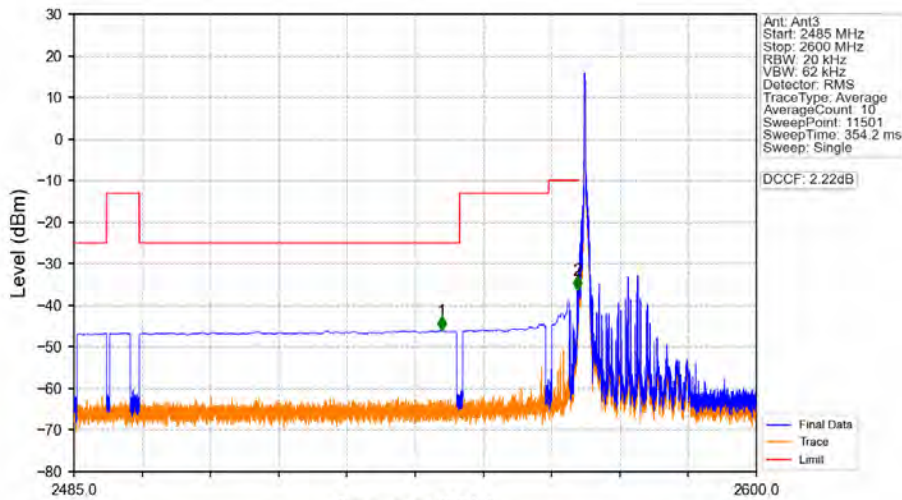
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Band38_20MHz_64QAM_LCH_2580MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2546.930	-46.09	-25	Pass
2569	2570	0.02	/	2	2569.820	-36.34	-10	Pass
2570	2600	0.02	/	/	/	/	/	/



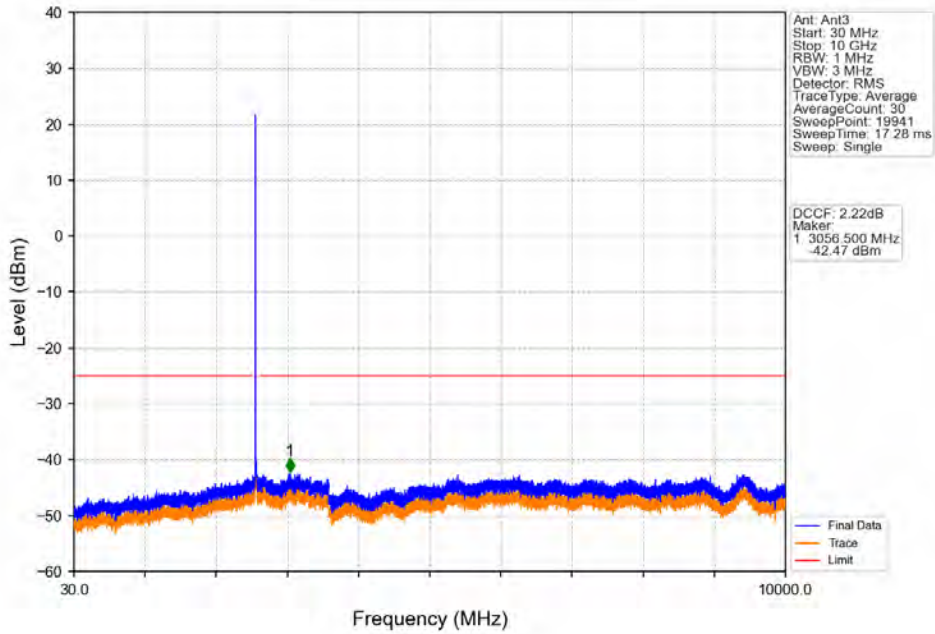
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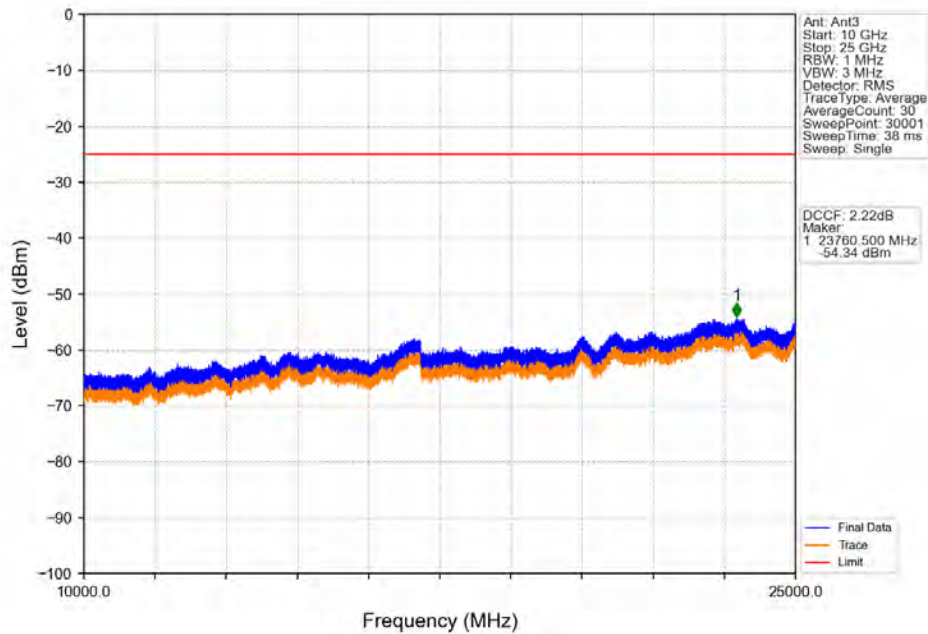


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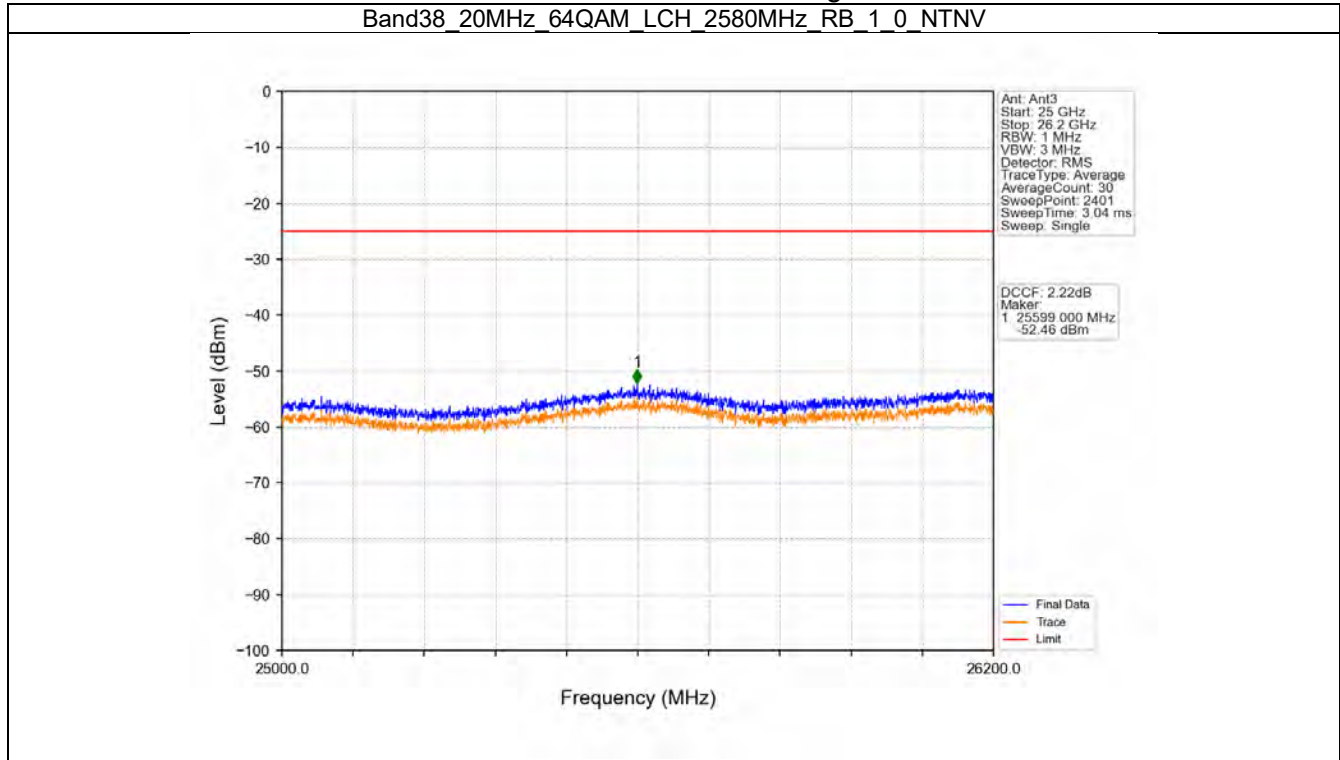


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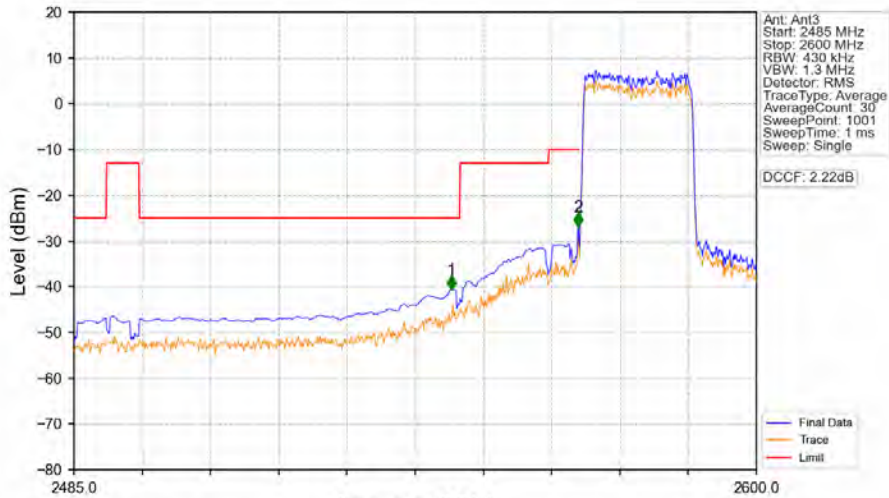


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2485	2569	1	CHP	1	2548.595	-40.65	-25	Pass
2569	2570	0.43	/	2	2569.985	-26.88	-10	Pass
2570	2600	0.43	/	/	/	/	/	/



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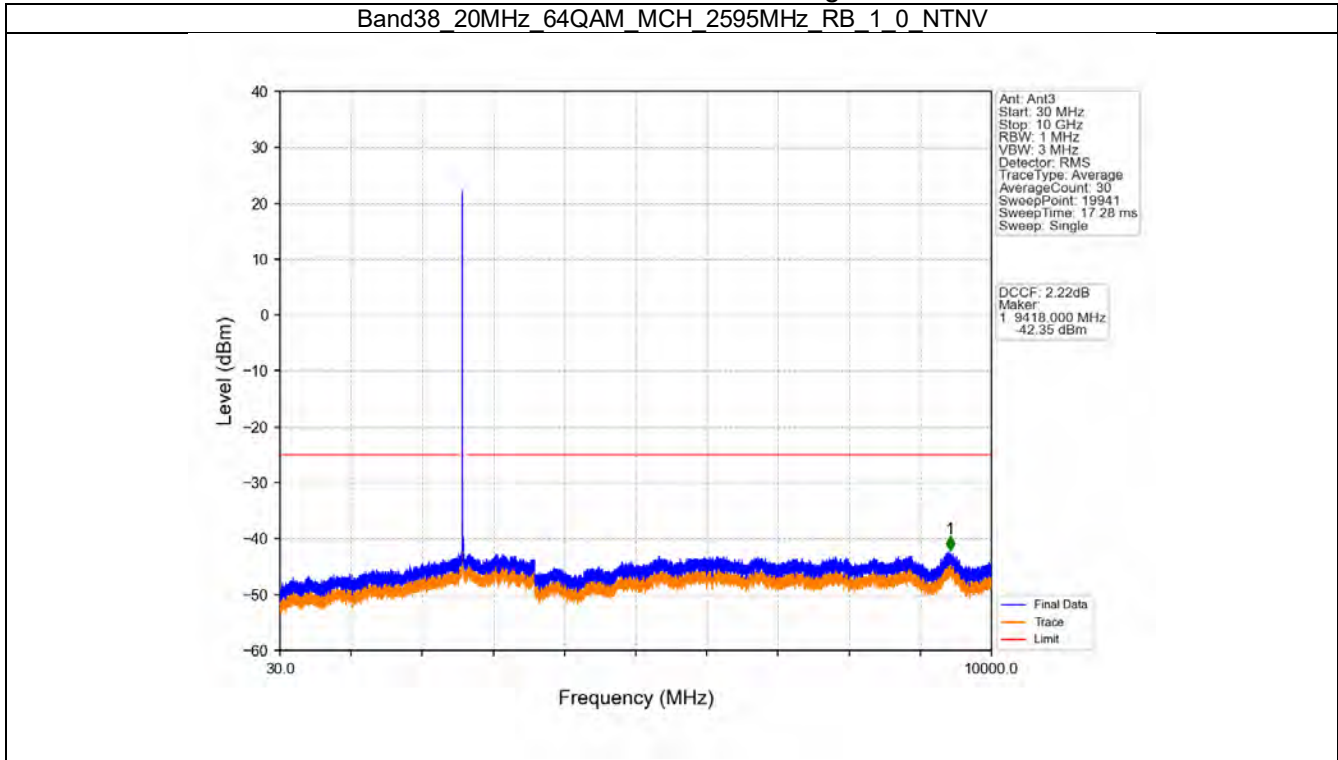
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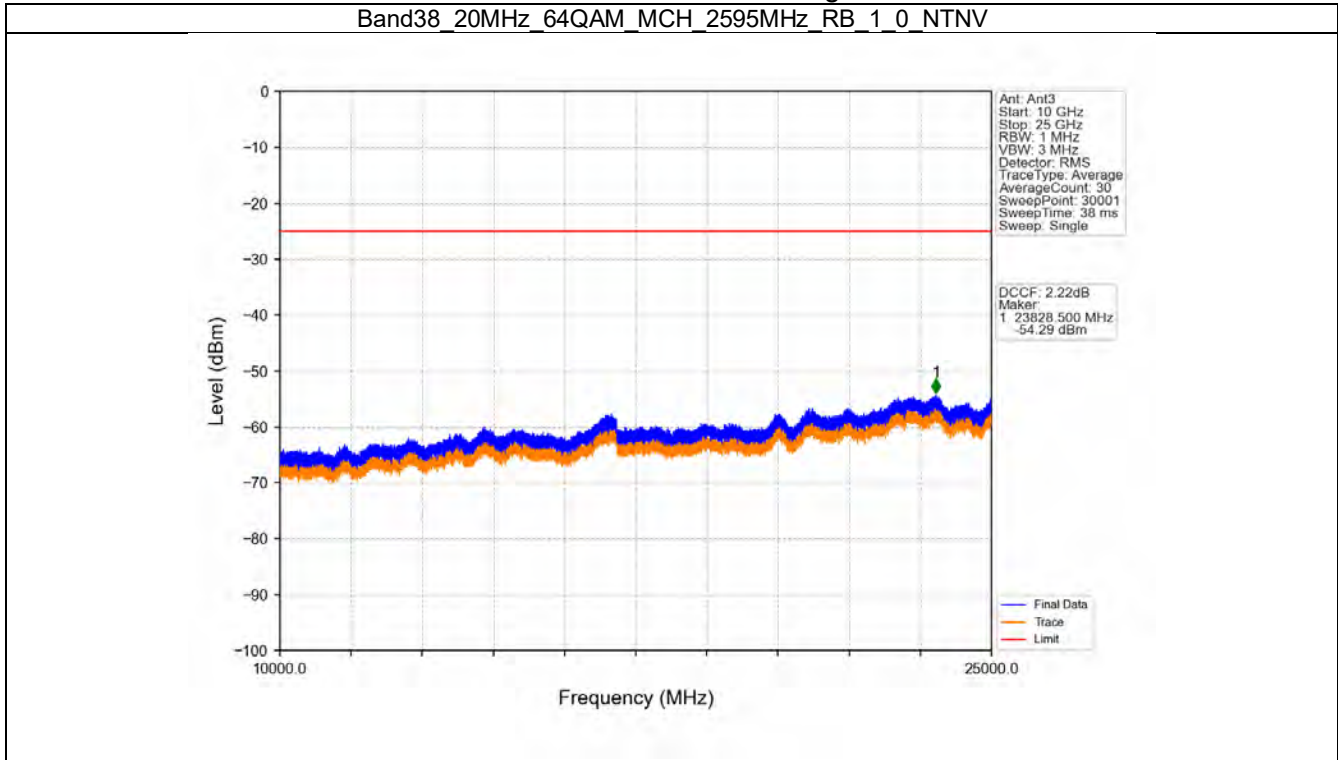
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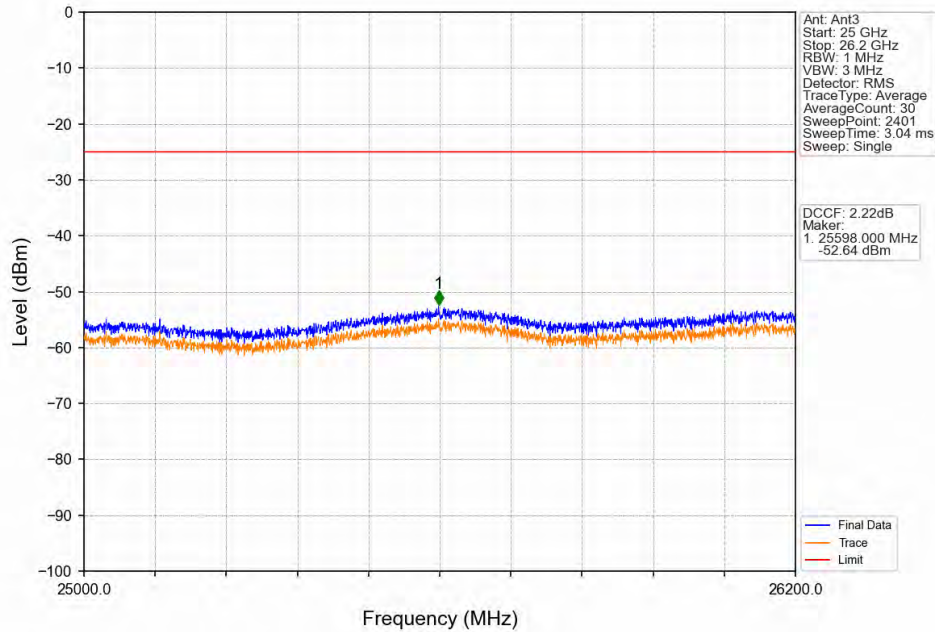


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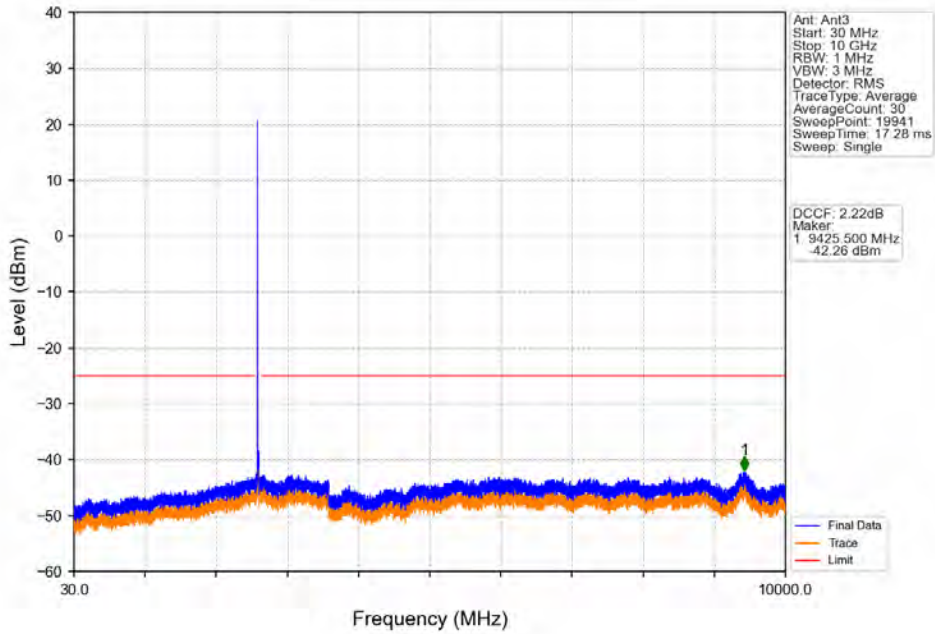


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Band38_20MHz_64QAM_HCH_2610MHz_RB_1_0_NTNV

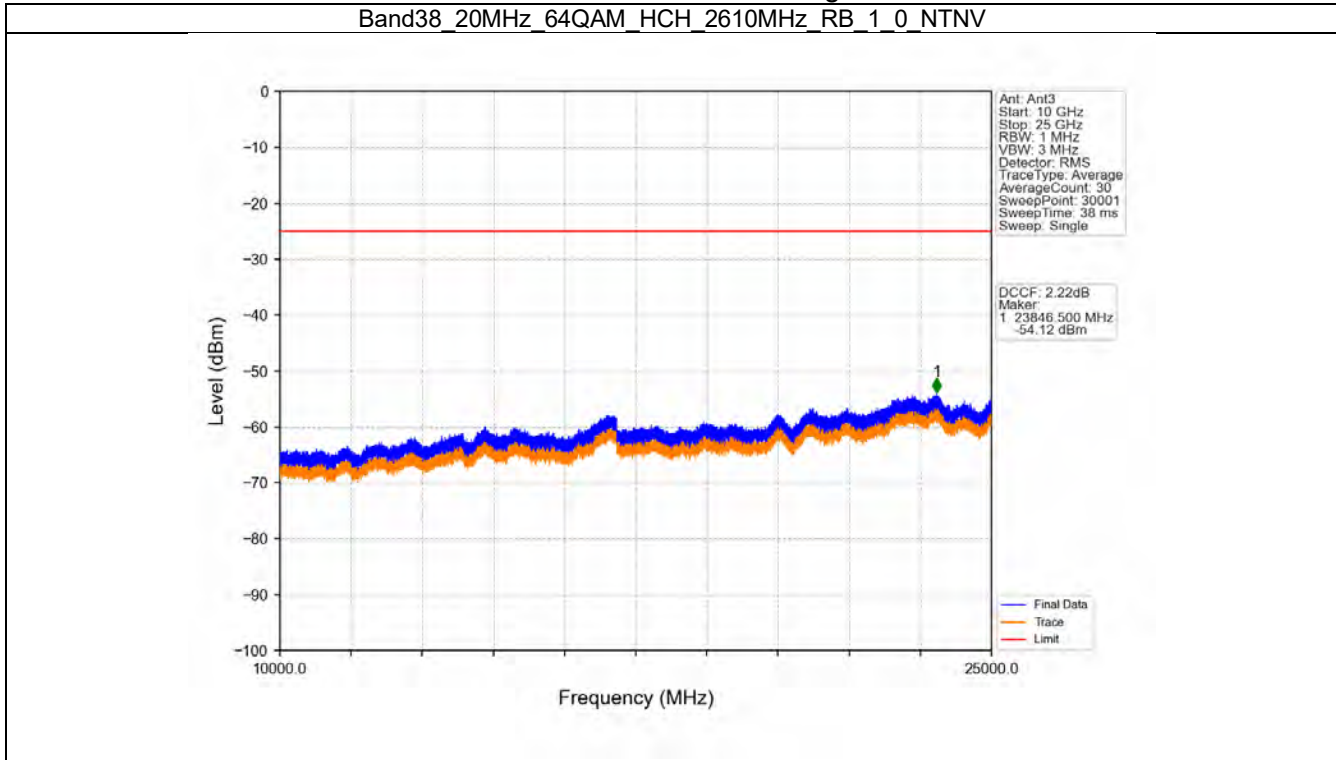


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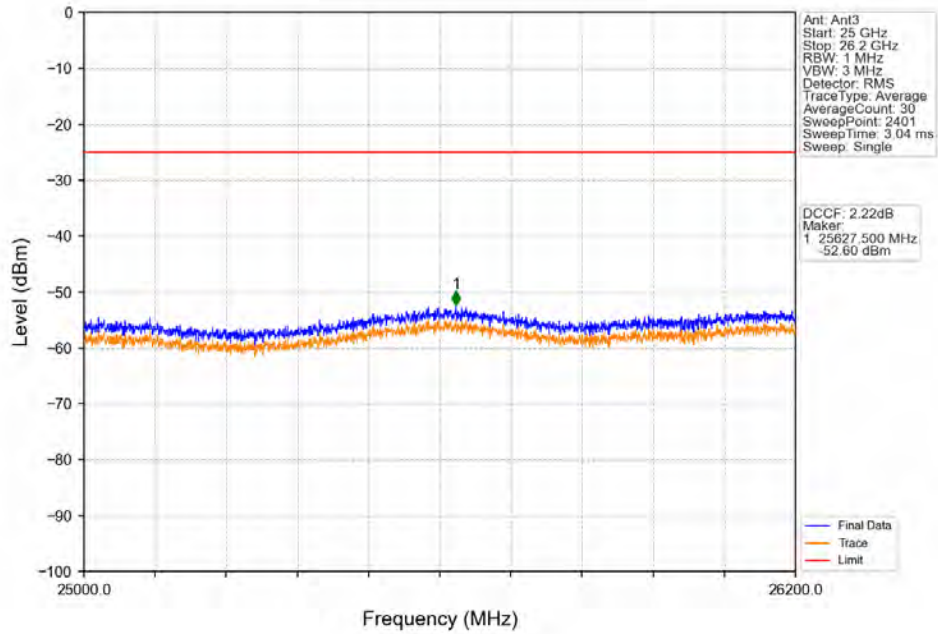


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Band38_20MHz_64QAM_HCH_2610MHz_RB_1_0_NTNV



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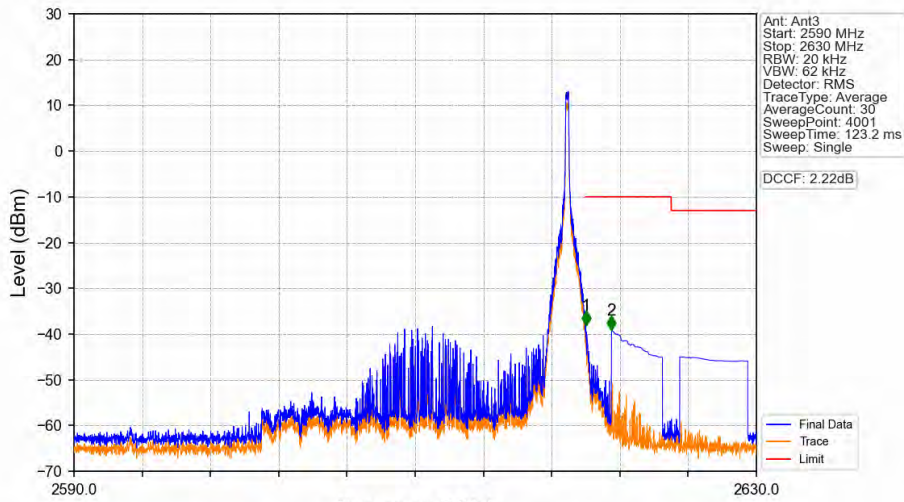
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Band38_20MHz_64QAM_HCH_2610MHz_RB_1_99_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2590	2620	0.02	/	/	/	/	/	/
2620	2621	0.02	/	1	2620.000	-38.07	-10	Pass
2621	2630	1	CHP	2	2621.510	-39.16	-10	Pass



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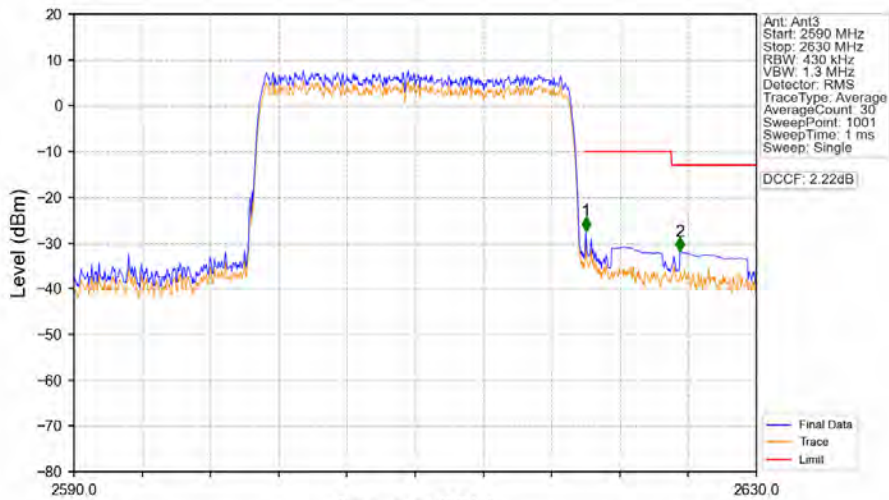
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Report No.: SEWM2311000454RG01

Rev.: 01

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Band38_20MHz_64QAM_HCH_2610MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2590	2620	0.43	/	/	/	/	/	/
2620	2621	0.43	/	1	2620.000	-27.38	-10	Pass
2621	2630	1	CHP	2	2625.520	-31.81	-13	Pass



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6. Field Strength of Spurious Radiation

Test Band = LTE Band 38_TM1
Test Channel = Low Channel _Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5142.18	43.70	-47.85	31.84	-67.57	-25.00	42.57	Horizontal
2	7713.27	40.92	-45.17	36.54	-62.97	-25.00	37.97	Horizontal
3	10284.36	38.34	-41.30	38.76	-59.47	-25.00	34.47	Horizontal
4	12855.45	37.06	-39.37	38.69	-58.89	-25.00	33.89	Horizontal
5	15426.54	33.72	-37.45	39.29	-59.70	-25.00	34.70	Horizontal
6	17997.63	34.16	-36.60	45.29	-52.41	-25.00	27.41	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5142.18	43.45	-47.85	31.84	-67.82	-25.00	42.82	Vertical
2	7713.27	41.63	-45.17	36.54	-62.26	-25.00	37.26	Vertical
3	10284.36	38.61	-41.30	38.76	-59.20	-25.00	34.20	Vertical
4	12855.45	36.12	-39.37	38.69	-59.83	-25.00	34.83	Vertical
5	15426.54	34.41	-37.45	39.29	-59.01	-25.00	34.01	Vertical
6	17997.63	33.11	-36.60	45.29	-53.46	-25.00	28.46	Vertical



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Test Band = LTE Band 38_ TM1
 Test Channel = Mid Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17588.5	35.47	-36.83	42.67	-53.95	-25.00	28.95	Horizontal
2	5172.18	43.63	-47.87	31.91	-67.59	-25.00	42.59	Horizontal
3	7758.27	41.77	-45.03	36.49	-62.03	-25.00	37.03	Horizontal
4	10344.36	37.97	-41.19	38.81	-59.67	-25.00	34.67	Horizontal
5	12930.45	36.90	-39.42	38.64	-59.14	-25.00	34.14	Horizontal
6	15516.54	34.12	-37.99	39.12	-60.02	-25.00	35.02	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17517	35.50	-36.82	42.21	-54.37	-25.00	29.37	Vertical
2	5172.18	42.58	-47.87	31.91	-68.64	-25.00	43.64	Vertical
3	7758.27	41.73	-45.03	36.49	-62.07	-25.00	37.07	Vertical
4	10344.36	37.66	-41.19	38.81	-59.98	-25.00	34.98	Vertical
5	12930.45	36.48	-39.42	38.64	-59.56	-25.00	34.56	Vertical
6	15516.54	35.35	-37.99	39.12	-58.79	-25.00	33.79	Vertical



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Test Band = LTE Band 38_ TM1
 Test Channel = High Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17738	35.12	-37.66	43.62	-54.18	-25.00	29.18	Horizontal
2	5202.18	43.88	-47.89	31.99	-67.28	-25.00	42.28	Horizontal
3	7803.27	41.41	-44.93	36.44	-62.34	-25.00	37.34	Horizontal
4	10404.36	37.95	-41.21	38.86	-59.66	-25.00	34.66	Horizontal
5	13005.45	35.95	-39.34	38.61	-60.03	-25.00	35.03	Horizontal
6	15606.54	33.84	-37.65	38.95	-60.12	-25.00	35.12	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17416.5	35.12	-37.27	41.57	-55.85	-25.00	30.85	Vertical
2	5202.18	43.15	-47.89	31.99	-68.01	-25.00	43.01	Vertical
3	7803.27	40.95	-44.93	36.44	-62.80	-25.00	37.80	Vertical
4	10404.36	37.61	-41.21	38.86	-60.00	-25.00	35.00	Vertical
5	13005.45	36.72	-39.34	38.61	-59.26	-25.00	34.26	Vertical
6	15606.54	34.24	-37.65	38.95	-59.72	-25.00	34.72	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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