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Appendix B.16

LTE Band 38



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1. Effective (Isotropic) Radiated Power Output Data

Ant41

1.1 B38_5MHz_EIRP

1.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2572.5	1	0	23.33	0.30	23.63	<=33.01	Pass		
			13	23.59	0.30	23.89	<=33.01	Pass		
			24	23.49	0.30	23.79	<=33.01	Pass		
		12	0	22.56	0.30	22.86	<=33.01	Pass		
			6	22.63	0.30	22.93	<=33.01	Pass		
			13	22.55	0.30	22.85	<=33.01	Pass		
		25	0	22.58	0.30	22.88	<=33.01	Pass		
		2595	1	0	23.42	0.30	23.72	<=33.01	Pass	
				13	23.51	0.30	23.81	<=33.01	Pass	
	24			23.45	0.30	23.75	<=33.01	Pass		
	12		0	22.45	0.30	22.75	<=33.01	Pass		
			6	22.47	0.30	22.77	<=33.01	Pass		
			13	22.51	0.30	22.81	<=33.01	Pass		
	25		0	22.43	0.30	22.73	<=33.01	Pass		
	2617.5		1	0	23.38	0.30	23.68	<=33.01	Pass	
				13	23.39	0.30	23.69	<=33.01	Pass	
		24		23.33	0.30	23.63	<=33.01	Pass		
		12	0	22.43	0.30	22.73	<=33.01	Pass		
			6	22.42	0.30	22.72	<=33.01	Pass		
			13	22.39	0.30	22.69	<=33.01	Pass		
		25	0	22.38	0.30	22.68	<=33.01	Pass		
		16QAM	2572.5	1	0	22.56	0.30	22.86	<=33.01	Pass
					13	22.59	0.30	22.89	<=33.01	Pass
	24				22.54	0.30	22.84	<=33.01	Pass	
12	0			21.63	0.30	21.93	<=33.01	Pass		
	6			21.69	0.30	21.99	<=33.01	Pass		
	13			21.53	0.30	21.83	<=33.01	Pass		
25	0			21.58	0.30	21.88	<=33.01	Pass		
2595	1			0	22.54	0.30	22.84	<=33.01	Pass	
				13	22.45	0.30	22.75	<=33.01	Pass	
			24	22.36	0.30	22.66	<=33.01	Pass		
	12		0	21.46	0.30	21.76	<=33.01	Pass		
			6	21.44	0.30	21.74	<=33.01	Pass		
			13	21.53	0.30	21.83	<=33.01	Pass		
	25		0	21.42	0.30	21.72	<=33.01	Pass		



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	2617.5	1	0	22.32	0.30	22.62	<=33.01	Pass		
			13	22.44	0.30	22.74	<=33.01	Pass		
			24	22.39	0.30	22.69	<=33.01	Pass		
		12	0	21.39	0.30	21.69	<=33.01	Pass		
			6	21.41	0.30	21.71	<=33.01	Pass		
			13	21.47	0.30	21.77	<=33.01	Pass		
		25	0	21.42	0.30	21.72	<=33.01	Pass		
		64QAM	2572.5	1	0	21.49	0.30	21.79	<=33.01	Pass
					13	21.54	0.30	21.84	<=33.01	Pass
24	21.37				0.30	21.67	<=33.01	Pass		
12	0			20.57	0.30	20.87	<=33.01	Pass		
	6			20.62	0.30	20.92	<=33.01	Pass		
	13			20.58	0.30	20.88	<=33.01	Pass		
25	0			20.56	0.30	20.86	<=33.01	Pass		
2595	1			0	21.36	0.30	21.66	<=33.01	Pass	
				13	21.46	0.30	21.76	<=33.01	Pass	
			24	21.35	0.30	21.65	<=33.01	Pass		
	12		0	20.44	0.30	20.74	<=33.01	Pass		
			6	20.50	0.30	20.80	<=33.01	Pass		
			13	20.48	0.30	20.78	<=33.01	Pass		
	25		0	20.45	0.30	20.75	<=33.01	Pass		
	2617.5		1	0	21.31	0.30	21.61	<=33.01	Pass	
				13	21.40	0.30	21.70	<=33.01	Pass	
24				21.37	0.30	21.67	<=33.01	Pass		
12			0	20.39	0.30	20.69	<=33.01	Pass		
			6	20.46	0.30	20.76	<=33.01	Pass		
			13	20.40	0.30	20.70	<=33.01	Pass		
25			0	20.40	0.30	20.70	<=33.01	Pass		

1.2 B38_10MHz_EIRP

1.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2575	1	0	23.55	0.30	23.85	<=33.01	Pass
			25	23.55	0.30	23.85	<=33.01	Pass
			49	23.46	0.30	23.76	<=33.01	Pass
		25	0	22.58	0.30	22.88	<=33.01	Pass
			13	22.61	0.30	22.91	<=33.01	Pass
			25	22.57	0.30	22.87	<=33.01	Pass
	50	0	22.60	0.30	22.90	<=33.01	Pass	
	2595	1	0	23.47	0.30	23.77	<=33.01	Pass
			25	23.50	0.30	23.80	<=33.01	Pass
			49	23.46	0.30	23.76	<=33.01	Pass



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		25	0	22.44	0.30	22.74	<=33.01	Pass	
			13	22.48	0.30	22.78	<=33.01	Pass	
			25	22.51	0.30	22.81	<=33.01	Pass	
		50	0	22.47	0.30	22.77	<=33.01	Pass	
			1	0	23.34	0.30	23.64	<=33.01	Pass
				25	23.39	0.30	23.69	<=33.01	Pass
	2615	25	49	23.37	0.30	23.67	<=33.01	Pass	
			0	22.35	0.30	22.65	<=33.01	Pass	
			13	22.41	0.30	22.71	<=33.01	Pass	
		50	25	22.40	0.30	22.70	<=33.01	Pass	
			0	22.35	0.30	22.65	<=33.01	Pass	
			1	0	22.57	0.30	22.87	<=33.01	Pass
16QAM	2575	1	25	22.51	0.30	22.81	<=33.01	Pass	
			49	22.46	0.30	22.76	<=33.01	Pass	
			0	21.58	0.30	21.88	<=33.01	Pass	
		25	13	21.60	0.30	21.90	<=33.01	Pass	
			25	21.58	0.30	21.88	<=33.01	Pass	
			0	21.57	0.30	21.87	<=33.01	Pass	
	2595	1	0	22.42	0.30	22.72	<=33.01	Pass	
			25	22.51	0.30	22.81	<=33.01	Pass	
			49	22.41	0.30	22.71	<=33.01	Pass	
		25	0	21.47	0.30	21.77	<=33.01	Pass	
			13	21.45	0.30	21.75	<=33.01	Pass	
			25	21.53	0.30	21.83	<=33.01	Pass	
	2615	50	0	21.44	0.30	21.74	<=33.01	Pass	
			1	0	22.31	0.30	22.61	<=33.01	Pass
			25	22.46	0.30	22.76	<=33.01	Pass	
		25	49	22.41	0.30	22.71	<=33.01	Pass	
			0	21.32	0.30	21.62	<=33.01	Pass	
			13	21.45	0.30	21.75	<=33.01	Pass	
	64QAM	2575	1	25	21.38	0.30	21.68	<=33.01	Pass
				25	21.38	0.30	21.68	<=33.01	Pass
				0	21.36	0.30	21.66	<=33.01	Pass
			25	0	21.57	0.30	21.87	<=33.01	Pass
				25	21.56	0.30	21.86	<=33.01	Pass
				49	21.37	0.30	21.67	<=33.01	Pass
2595		1	0	20.58	0.30	20.88	<=33.01	Pass	
			13	20.62	0.30	20.92	<=33.01	Pass	
			25	20.57	0.30	20.87	<=33.01	Pass	
		25	0	20.58	0.30	20.88	<=33.01	Pass	
			0	21.50	0.30	21.80	<=33.01	Pass	
			25	21.50	0.30	21.80	<=33.01	Pass	
2615		1	49	21.44	0.30	21.74	<=33.01	Pass	
			0	20.44	0.30	20.74	<=33.01	Pass	
			13	20.47	0.30	20.77	<=33.01	Pass	
		50	25	20.56	0.30	20.86	<=33.01	Pass	
			0	20.47	0.30	20.77	<=33.01	Pass	
			1	0	21.31	0.30	21.61	<=33.01	Pass
			1	25	21.46	0.30	21.76	<=33.01	Pass



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		49	21.41	0.30	21.71	<=33.01	Pass
	25	0	20.34	0.30	20.64	<=33.01	Pass
		13	20.42	0.30	20.72	<=33.01	Pass
		25	20.40	0.30	20.70	<=33.01	Pass
	50	0	20.34	0.30	20.64	<=33.01	Pass

1.3 B38_15MHz_EIRP

1.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2577.5	1	0	23.35	0.30	23.65	<=33.01	Pass		
			38	23.45	0.30	23.75	<=33.01	Pass		
			74	23.34	0.30	23.64	<=33.01	Pass		
		36	0	22.51	0.30	22.81	<=33.01	Pass		
			18	22.49	0.30	22.79	<=33.01	Pass		
			39	22.48	0.30	22.78	<=33.01	Pass		
		75	0	22.49	0.30	22.79	<=33.01	Pass		
		2595	1	0	23.35	0.30	23.65	<=33.01	Pass	
				38	23.33	0.30	23.63	<=33.01	Pass	
	74			23.22	0.30	23.52	<=33.01	Pass		
	36		0	22.37	0.30	22.67	<=33.01	Pass		
			18	22.35	0.30	22.65	<=33.01	Pass		
			39	22.45	0.30	22.75	<=33.01	Pass		
	75		0	22.39	0.30	22.69	<=33.01	Pass		
	2612.5		1	0	23.16	0.30	23.46	<=33.01	Pass	
				38	23.20	0.30	23.50	<=33.01	Pass	
		74		23.17	0.30	23.47	<=33.01	Pass		
		36	0	22.25	0.30	22.55	<=33.01	Pass		
			18	22.24	0.30	22.54	<=33.01	Pass		
			39	22.36	0.30	22.66	<=33.01	Pass		
		75	0	22.26	0.30	22.56	<=33.01	Pass		
		16QAM	2577.5	1	0	22.43	0.30	22.73	<=33.01	Pass
					38	22.44	0.30	22.74	<=33.01	Pass
	74				22.36	0.30	22.66	<=33.01	Pass	
36	0			21.51	0.30	21.81	<=33.01	Pass		
	18			21.50	0.30	21.80	<=33.01	Pass		
	39			21.49	0.30	21.79	<=33.01	Pass		
75	0			21.49	0.30	21.79	<=33.01	Pass		
2595	1			0	22.32	0.30	22.62	<=33.01	Pass	
				38	22.27	0.30	22.57	<=33.01	Pass	
			74	22.20	0.30	22.50	<=33.01	Pass		
	36		0	21.39	0.30	21.69	<=33.01	Pass		
			18	21.36	0.30	21.66	<=33.01	Pass		



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	2612.5	75	39	21.42	0.30	21.72	<=33.01	Pass	
			0	21.37	0.30	21.67	<=33.01	Pass	
			0	22.28	0.30	22.58	<=33.01	Pass	
		1	38	22.26	0.30	22.56	<=33.01	Pass	
			74	22.23	0.30	22.53	<=33.01	Pass	
			0	21.27	0.30	21.57	<=33.01	Pass	
	36	18	21.26	0.30	21.56	<=33.01	Pass		
		39	21.35	0.30	21.65	<=33.01	Pass		
		75	0	21.29	0.30	21.59	<=33.01	Pass	
	64QAM	2577.5	1	0	21.39	0.30	21.69	<=33.01	Pass
				38	21.38	0.30	21.68	<=33.01	Pass
				74	21.34	0.30	21.64	<=33.01	Pass
36			0	20.50	0.30	20.80	<=33.01	Pass	
			18	20.48	0.30	20.78	<=33.01	Pass	
			39	20.50	0.30	20.80	<=33.01	Pass	
75		0	20.52	0.30	20.82	<=33.01	Pass		
2595		1	0	21.25	0.30	21.55	<=33.01	Pass	
			38	21.28	0.30	21.58	<=33.01	Pass	
			74	21.28	0.30	21.58	<=33.01	Pass	
		36	0	20.42	0.30	20.72	<=33.01	Pass	
			18	20.37	0.30	20.67	<=33.01	Pass	
			39	20.46	0.30	20.76	<=33.01	Pass	
75		0	20.38	0.30	20.68	<=33.01	Pass		
2612.5		1	0	21.19	0.30	21.49	<=33.01	Pass	
			38	21.22	0.30	21.52	<=33.01	Pass	
			74	21.21	0.30	21.51	<=33.01	Pass	
		36	0	20.31	0.30	20.61	<=33.01	Pass	
	18		20.30	0.30	20.60	<=33.01	Pass		
	39		20.37	0.30	20.67	<=33.01	Pass		
75	0	20.31	0.30	20.61	<=33.01	Pass			

1.4 B38_20MHz_EIRP

1.4.1 Test Result

Band: 38 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2580	1	0	23.37	0.30	23.67	<=33.01	Pass
			50	23.38	0.30	23.68	<=33.01	Pass
			99	23.25	0.30	23.55	<=33.01	Pass
		50	0	22.45	0.30	22.75	<=33.01	Pass
			25	22.50	0.30	22.80	<=33.01	Pass
			50	22.48	0.30	22.78	<=33.01	Pass
	100	0	22.49	0.30	22.79	<=33.01	Pass	
	2595	1	0	23.37	0.30	23.67	<=33.01	Pass



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16QAM	2610	50	50	23.33	0.30	23.63	<=33.01	Pass
			99	23.21	0.30	23.51	<=33.01	Pass
			0	22.41	0.30	22.71	<=33.01	Pass
		100	25	22.40	0.30	22.70	<=33.01	Pass
			50	22.49	0.30	22.79	<=33.01	Pass
			0	22.40	0.30	22.70	<=33.01	Pass
	2580	1	0	23.26	0.30	23.56	<=33.01	Pass
			50	23.24	0.30	23.54	<=33.01	Pass
			99	23.15	0.30	23.45	<=33.01	Pass
		50	0	22.29	0.30	22.59	<=33.01	Pass
			25	22.38	0.30	22.68	<=33.01	Pass
			50	22.35	0.30	22.65	<=33.01	Pass
	2595	1	0	22.29	0.30	22.59	<=33.01	Pass
			50	22.37	0.30	22.67	<=33.01	Pass
			99	22.35	0.30	22.65	<=33.01	Pass
		50	0	21.45	0.30	21.75	<=33.01	Pass
			25	21.51	0.30	21.81	<=33.01	Pass
			50	21.50	0.30	21.80	<=33.01	Pass
2610		1	0	21.53	0.30	21.83	<=33.01	Pass
			50	22.25	0.30	22.55	<=33.01	Pass
			99	22.19	0.30	22.49	<=33.01	Pass
		50	0	22.21	0.30	22.51	<=33.01	Pass
			25	21.43	0.30	21.73	<=33.01	Pass
			50	21.41	0.30	21.71	<=33.01	Pass
64QAM	1	0	21.46	0.30	21.76	<=33.01	Pass	
		50	21.36	0.30	21.66	<=33.01	Pass	
		99	21.36	0.30	21.66	<=33.01	Pass	
	50	0	22.36	0.30	22.66	<=33.01	Pass	
		25	22.30	0.30	22.60	<=33.01	Pass	
		50	22.23	0.30	22.53	<=33.01	Pass	
2580	1	0	21.33	0.30	21.63	<=33.01	Pass	
		25	21.41	0.30	21.71	<=33.01	Pass	
		50	21.39	0.30	21.69	<=33.01	Pass	
	50	0	21.31	0.30	21.61	<=33.01	Pass	
		25	21.42	0.30	21.72	<=33.01	Pass	
		50	21.38	0.30	21.68	<=33.01	Pass	
	2595	1	99	21.25	0.30	21.55	<=33.01	Pass
			0	20.46	0.30	20.76	<=33.01	Pass
			25	20.53	0.30	20.83	<=33.01	Pass
		50	50	20.50	0.30	20.80	<=33.01	Pass
			0	20.50	0.30	20.80	<=33.01	Pass
			0	21.34	0.30	21.64	<=33.01	Pass
64QAM	1	50	21.23	0.30	21.53	<=33.01	Pass	
		99	21.34	0.30	21.64	<=33.01	Pass	
		0	20.43	0.30	20.73	<=33.01	Pass	
	50	25	20.41	0.30	20.71	<=33.01	Pass	
		50	20.44	0.30	20.74	<=33.01	Pass	
		0	20.38	0.30	20.68	<=33.01	Pass	



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2610	1	0	21.23	0.30	21.53	<=33.01	Pass
		50	21.31	0.30	21.61	<=33.01	Pass
		99	21.31	0.30	21.61	<=33.01	Pass
	50	0	20.33	0.30	20.63	<=33.01	Pass
		25	20.40	0.30	20.70	<=33.01	Pass
		50	20.36	0.30	20.66	<=33.01	Pass
	100	0	20.29	0.30	20.59	<=33.01	Pass



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2. Frequency Stability

2.1 B38_5MHz

2.1.1 Test Result

Band: 38 / Bandwidth: 5MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2572.5	25	0	20	3.7	-1.439	-0.0006	/	Pass	
					3.91	-1.819	-0.0007	/	Pass	
					4.4	-2.418	-0.0009	/	Pass	
				-30	3.91	-1.065	-0.0004	/	Pass	
					-20	3.91	-1.899	-0.0007	/	Pass
						-10	3.91	0.315	0.0001	/
				0	3.91	1.058	0.0004	/	Pass	
					10	3.91	-0.259	-0.0001	/	Pass
				30	3.91	-1.300	-0.0005	/	Pass	
	40	3.91	0.440	0.0002	/	Pass				
	50	3.91	1.427	0.0006	/	Pass				
	2595	25	0	20	3.7	3.848	0.0015	/	Pass	
					3.91	-0.071	0.0000	/	Pass	
					4.4	-1.390	-0.0005	/	Pass	
				-30	3.91	2.588	0.0010	/	Pass	
					-20	3.91	-0.102	0.0000	/	Pass
						-10	3.91	0.034	0.0000	/
				0	3.91	1.917	0.0007	/	Pass	
					10	3.91	2.067	0.0008	/	Pass
				30	3.91	0.296	0.0001	/	Pass	
	40	3.91	3.514	0.0014	/	Pass				
	50	3.91	0.545	0.0002	/	Pass				
	2617.5	25	0	20	3.7	-0.261	-0.0001	/	Pass	
					3.91	1.442	0.0006	/	Pass	
					4.4	1.053	0.0004	/	Pass	
				-30	3.91	0.821	0.0003	/	Pass	
					-20	3.91	1.162	0.0004	/	Pass
-10						3.91	-1.004	-0.0004	/	Pass
0				3.91	-1.247	-0.0005	/	Pass		
				10	3.91	-1.825	-0.0007	/	Pass	
30				3.91	-0.244	-0.0001	/	Pass		
40	3.91	-0.348	-0.0001	/	Pass					
50	3.91	2.084	0.0008	/	Pass					
16QAM	2572.5	25	0	20	3.7	0.343	0.0001	/	Pass	
					3.91	0.739	0.0003	/	Pass	



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64QAM	2595	25	0		4.4	0.887	0.0003	/	Pass	
				-30	3.91	1.184	0.0005	/	Pass	
				-20	3.91	0.389	0.0002	/	Pass	
				-10	3.91	2.068	0.0008	/	Pass	
				0	3.91	-2.061	-0.0008	/	Pass	
				10	3.91	-0.246	-0.0001	/	Pass	
				30	3.91	0.371	0.0001	/	Pass	
				40	3.91	-0.904	-0.0004	/	Pass	
	50	3.91	1.229	0.0005	/	Pass				
	2617.5	25	0	20		3.7	-1.470	-0.0006	/	Pass
						3.91	-0.063	0.0000	/	Pass
						4.4	1.961	0.0008	/	Pass
					-30	3.91	2.030	0.0008	/	Pass
					-20	3.91	2.251	0.0009	/	Pass
					-10	3.91	0.715	0.0003	/	Pass
					0	3.91	1.527	0.0006	/	Pass
					10	3.91	-1.195	-0.0005	/	Pass
	2617.5	25	0	20		3.7	-2.215	-0.0008	/	Pass
						3.91	-1.982	-0.0008	/	Pass
						4.4	-1.262	-0.0005	/	Pass
					-30	3.91	1.735	0.0007	/	Pass
					-20	3.91	-2.065	-0.0008	/	Pass
					-10	3.91	1.156	0.0004	/	Pass
					0	3.91	0.022	0.0000	/	Pass
					10	3.91	1.293	0.0005	/	Pass
	2572.5	25	0	20		3.7	0.192	0.0001	/	Pass
						3.91	-0.854	-0.0003	/	Pass
						4.4	-1.216	-0.0005	/	Pass
-30					3.91	1.515	0.0006	/	Pass	
-20					3.91	1.644	0.0006	/	Pass	
-10					3.91	-1.689	-0.0007	/	Pass	
0					3.91	0.765	0.0003	/	Pass	
10					3.91	-0.510	-0.0002	/	Pass	
2595	25	0	20		3.7	2.999	0.0012	/	Pass	
					3.91	0.459	0.0002	/	Pass	
					4.4	1.959	0.0008	/	Pass	
				-30	3.91	0.140	0.0001	/	Pass	
				-20	3.91	-0.045	0.0000	/	Pass	
				-10	3.91	1.708	0.0007	/	Pass	



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				0	3.91	1.059	0.0004	/	Pass			
				10	3.91	0.007	0.0000	/	Pass			
				30	3.91	1.257	0.0005	/	Pass			
				40	3.91	2.901	0.0011	/	Pass			
				50	3.91	2.110	0.0008	/	Pass			
	2617.5	25	0	20	3.7	-1.936	-0.0007	/	Pass			
								3.91	2.133	0.0008	/	Pass
								4.4	0.557	0.0002	/	Pass
							-30	3.91	0.626	0.0002	/	Pass
							-20	3.91	1.176	0.0004	/	Pass
							-10	3.91	-1.325	-0.0005	/	Pass
							0	3.91	-0.920	-0.0004	/	Pass
							10	3.91	-2.603	-0.0010	/	Pass
							30	3.91	-1.122	-0.0004	/	Pass
							40	3.91	-1.141	-0.0004	/	Pass
							50	3.91	2.320	0.0009	/	Pass

2.2 B38_10MHz

2.2.1 Test Result

Band: 38 / Bandwidth: 10MHz												
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
		Size	Offset				Result	Limit				
QPSK	2575	50	0	20	3.7	0.181	0.0001	/	Pass			
						3.91	0.826	0.0003	/	Pass		
						4.4	-0.224	-0.0001	/	Pass		
							-30	3.91	-2.710	-0.0011	/	Pass
							-20	3.91	1.734	0.0007	/	Pass
							-10	3.91	-1.446	-0.0006	/	Pass
							0	3.91	0.755	0.0003	/	Pass
							10	3.91	-2.131	-0.0008	/	Pass
							30	3.91	-1.677	-0.0007	/	Pass
							40	3.91	-1.123	-0.0004	/	Pass
				50	3.91	1.407	0.0005	/	Pass			
		2595	50	0	20	3.7	-3.056	-0.0012	/	Pass		
								3.91	0.264	0.0001	/	Pass
								4.4	-2.996	-0.0012	/	Pass
							-30	3.91	-3.141	-0.0012	/	Pass
							-20	3.91	-0.187	-0.0001	/	Pass
							-10	3.91	-0.569	-0.0002	/	Pass
							0	3.91	-2.439	-0.0009	/	Pass
							10	3.91	0.394	0.0002	/	Pass
							30	3.91	-0.805	-0.0003	/	Pass
						40	3.91	-2.531	-0.0010	/	Pass	
			50	3.91	-1.685	-0.0006	/	Pass				



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2615	50	0	20	3.7	-1.707	-0.0007	/	Pass	
				3.91	-2.513	-0.0010	/	Pass	
				4.4	0.058	0.0000	/	Pass	
			-30	3.91	-1.064	-0.0004	/	Pass	
			-20	3.91	-2.621	-0.0010	/	Pass	
			-10	3.91	0.508	0.0002	/	Pass	
			0	3.91	0.347	0.0001	/	Pass	
			10	3.91	1.498	0.0006	/	Pass	
			30	3.91	-1.469	-0.0006	/	Pass	
			40	3.91	-1.225	-0.0005	/	Pass	
50	3.91	1.227	0.0005	/	Pass				
2575	50	0	20	3.7	-0.262	-0.0001	/	Pass	
				3.91	2.173	0.0008	/	Pass	
				4.4	-2.487	-0.0010	/	Pass	
			-30	3.91	-0.432	-0.0002	/	Pass	
			-20	3.91	0.237	0.0001	/	Pass	
			-10	3.91	1.197	0.0005	/	Pass	
			0	3.91	-1.007	-0.0004	/	Pass	
			10	3.91	-1.741	-0.0007	/	Pass	
			30	3.91	-1.397	-0.0005	/	Pass	
			40	3.91	1.240	0.0005	/	Pass	
50	3.91	1.564	0.0006	/	Pass				
16QAM	2595	50	0	20	3.7	1.314	0.0005	/	Pass
					3.91	0.593	0.0002	/	Pass
					4.4	0.445	0.0002	/	Pass
				-30	3.91	-2.948	-0.0011	/	Pass
				-20	3.91	-0.565	-0.0002	/	Pass
				-10	3.91	-1.784	-0.0007	/	Pass
				0	3.91	-2.633	-0.0010	/	Pass
				10	3.91	0.932	0.0004	/	Pass
				30	3.91	-2.893	-0.0011	/	Pass
				40	3.91	0.090	0.0000	/	Pass
50	3.91	0.689	0.0003	/	Pass				
2615	50	0	20	3.7	-1.975	-0.0008	/	Pass	
				3.91	-0.816	-0.0003	/	Pass	
				4.4	-1.271	-0.0005	/	Pass	
			-30	3.91	-1.210	-0.0005	/	Pass	
			-20	3.91	2.108	0.0008	/	Pass	
			-10	3.91	1.229	0.0005	/	Pass	
			0	3.91	0.864	0.0003	/	Pass	
			10	3.91	-1.712	-0.0007	/	Pass	
			30	3.91	-2.238	-0.0009	/	Pass	
			40	3.91	0.694	0.0003	/	Pass	
50	3.91	1.372	0.0005	/	Pass				
64QAM	2575	50	0	20	3.7	0.905	0.0004	/	Pass
					3.91	-0.009	0.0000	/	Pass
					4.4	-1.842	-0.0007	/	Pass
				-30	3.91	-0.001	0.0000	/	Pass



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2595	50	0	-20	3.91	0.266	0.0001	/	Pass
			-10	3.91	-1.948	-0.0008	/	Pass
			0	3.91	-1.642	-0.0006	/	Pass
			10	3.91	-2.184	-0.0008	/	Pass
			30	3.91	0.677	0.0003	/	Pass
			40	3.91	1.103	0.0004	/	Pass
			50	3.91	0.279	0.0001	/	Pass
			20	3.7	-1.784	-0.0007	/	Pass
				3.91	-1.764	-0.0007	/	Pass
	4.4	-2.681		-0.0010	/	Pass		
	-30	3.91	0.971	0.0004	/	Pass		
	-20	3.91	0.005	0.0000	/	Pass		
	-10	3.91	-3.006	-0.0012	/	Pass		
	0	3.91	-2.100	-0.0008	/	Pass		
	10	3.91	-1.414	-0.0005	/	Pass		
	30	3.91	1.303	0.0005	/	Pass		
	40	3.91	1.676	0.0006	/	Pass		
	50	3.91	-0.960	-0.0004	/	Pass		
2615	50	0	20	3.7	-1.354	-0.0005	/	Pass
				3.91	1.248	0.0005	/	Pass
				4.4	-1.325	-0.0005	/	Pass
			-30	3.91	-1.029	-0.0004	/	Pass
			-20	3.91	1.823	0.0007	/	Pass
			-10	3.91	-1.204	-0.0005	/	Pass
	0	3.91	2.198	0.0008	/	Pass		
		10	3.91	1.047	0.0004	/	Pass	
		30	3.91	-0.303	-0.0001	/	Pass	
		40	3.91	1.698	0.0006	/	Pass	
		50	3.91	2.649	0.0010	/	Pass	

2.3 B38_15MHz

2.3.1 Test Result

Band: 38 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2577.5	75	0	20	3.7	-1.471	-0.0006	/	Pass
					3.91	-0.582	-0.0002	/	Pass
					4.4	-3.528	-0.0014	/	Pass
				-30	3.91	-1.757	-0.0007	/	Pass
				-20	3.91	-0.479	-0.0002	/	Pass
				-10	3.91	-1.877	-0.0007	/	Pass
				0	3.91	0.627	0.0002	/	Pass
				10	3.91	0.849	0.0003	/	Pass
				30	3.91	1.197	0.0005	/	Pass



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16QAM	2595	75	0	40	3.91	-1.900	-0.0007	/	Pass
				50	3.91	-0.752	-0.0003	/	Pass
				20	3.7	-0.443	-0.0002	/	Pass
					3.91	2.253	0.0009	/	Pass
					4.4	1.132	0.0004	/	Pass
				-30	3.91	1.521	0.0006	/	Pass
				-20	3.91	2.716	0.0010	/	Pass
				-10	3.91	1.234	0.0005	/	Pass
				0	3.91	-2.177	-0.0008	/	Pass
				10	3.91	-1.746	-0.0007	/	Pass
	30	3.91	-0.672	-0.0003	/	Pass			
	40	3.91	-1.091	-0.0004	/	Pass			
	50	3.91	1.671	0.0006	/	Pass			
	2612.5	75	0	20	3.7	-0.855	-0.0003	/	Pass
					3.91	-1.886	-0.0007	/	Pass
					4.4	-2.741	-0.0010	/	Pass
				-30	3.91	-2.792	-0.0011	/	Pass
				-20	3.91	0.355	0.0001	/	Pass
				-10	3.91	-1.974	-0.0008	/	Pass
				0	3.91	0.777	0.0003	/	Pass
10				3.91	-1.537	-0.0006	/	Pass	
30				3.91	0.718	0.0003	/	Pass	
40				3.91	-0.329	-0.0001	/	Pass	
50	3.91	0.739	0.0003	/	Pass				
2577.5	75	0	20	3.7	0.516	0.0002	/	Pass	
				3.91	-2.072	-0.0008	/	Pass	
				4.4	-1.546	-0.0006	/	Pass	
			-30	3.91	-2.856	-0.0011	/	Pass	
			-20	3.91	0.992	0.0004	/	Pass	
			-10	3.91	-1.371	-0.0005	/	Pass	
			0	3.91	-0.257	-0.0001	/	Pass	
			10	3.91	0.193	0.0001	/	Pass	
			30	3.91	-1.485	-0.0006	/	Pass	
			40	3.91	-2.845	-0.0011	/	Pass	
50	3.91	-2.736	-0.0011	/	Pass				
2595	75	0	20	3.7	-1.096	-0.0004	/	Pass	
				3.91	1.970	0.0008	/	Pass	
				4.4	0.596	0.0002	/	Pass	
			-30	3.91	-2.587	-0.0010	/	Pass	
			-20	3.91	1.194	0.0005	/	Pass	
			-10	3.91	-1.748	-0.0007	/	Pass	
			0	3.91	-1.144	-0.0004	/	Pass	
			10	3.91	-0.868	-0.0003	/	Pass	
			30	3.91	-0.515	-0.0002	/	Pass	
			40	3.91	-1.140	-0.0004	/	Pass	
50	3.91	2.801	0.0011	/	Pass				
2612.5	75	0	20	3.7	-0.329	-0.0001	/	Pass	
				3.91	1.263	0.0005	/	Pass	



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					4.4	-2.493	-0.0010	/	Pass				
				-30	3.91	-1.863	-0.0007	/	Pass				
				-20	3.91	1.544	0.0006	/	Pass				
				-10	3.91	-1.963	-0.0008	/	Pass				
				0	3.91	-1.741	-0.0007	/	Pass				
				10	3.91	-1.767	-0.0007	/	Pass				
				30	3.91	-2.000	-0.0008	/	Pass				
				40	3.91	-1.901	-0.0007	/	Pass				
				50	3.91	0.711	0.0003	/	Pass				
64QAM	2577.5	75	0	20	3.7	-0.619	-0.0002	/	Pass				
					3.91	-2.259	-0.0009	/	Pass				
					4.4	-0.022	0.0000	/	Pass				
								-30	3.91	1.264	0.0005	/	Pass
								-20	3.91	0.260	0.0001	/	Pass
								-10	3.91	0.581	0.0002	/	Pass
								0	3.91	-1.983	-0.0008	/	Pass
								10	3.91	0.716	0.0003	/	Pass
								30	3.91	-2.184	-0.0008	/	Pass
					40	3.91	1.390	0.0005	/	Pass			
					50	3.91	1.566	0.0006	/	Pass			
		2595	75	0	20	3.7	-0.755	-0.0003	/	Pass			
	3.91					-2.023	-0.0008	/	Pass				
	4.4					-1.958	-0.0008	/	Pass				
								-30	3.91	-0.824	-0.0003	/	Pass
								-20	3.91	-0.276	-0.0001	/	Pass
								-10	3.91	-0.209	-0.0001	/	Pass
								0	3.91	1.657	0.0006	/	Pass
								10	3.91	1.387	0.0005	/	Pass
								30	3.91	-0.422	-0.0002	/	Pass
					40	3.91	0.840	0.0003	/	Pass			
					50	3.91	-0.257	-0.0001	/	Pass			
		2612.5	75	0	20	3.7	1.969	0.0008	/	Pass			
	3.91					-1.768	-0.0007	/	Pass				
	4.4					0.519	0.0002	/	Pass				
								-30	3.91	-1.444	-0.0006	/	Pass
								-20	3.91	-1.536	-0.0006	/	Pass
							-10	3.91	-1.178	-0.0005	/	Pass	
							0	3.91	-1.005	-0.0004	/	Pass	
							10	3.91	-2.140	-0.0008	/	Pass	
							30	3.91	-2.471	-0.0009	/	Pass	
				40	3.91	-1.485	-0.0006	/	Pass				
				50	3.91	-0.134	-0.0001	/	Pass				



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2.4 B38_20MHz

2.4.1 Test Result

Band: 38 / Bandwidth: 20MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2580	100	0	20	3.7	-0.594	-0.0002	/	Pass	
					3.91	2.342	0.0009	/	Pass	
					4.4	0.776	0.0003	/	Pass	
				-30	3.91	1.087	0.0004	/	Pass	
					-20	3.91	-3.171	-0.0012	/	Pass
					-10	3.91	-2.025	-0.0008	/	Pass
				0	3.91	0.181	0.0001	/	Pass	
					10	3.91	-0.454	-0.0002	/	Pass
					30	3.91	-0.151	-0.0001	/	Pass
	40	3.91	0.241		0.0001	/	Pass			
	50	3.91	-1.513		-0.0006	/	Pass			
	2595	100	0		20	3.7	1.293	0.0005	/	Pass
				3.91		-1.192	-0.0005	/	Pass	
				4.4		1.442	0.0006	/	Pass	
				-30	3.91	-1.285	-0.0005	/	Pass	
					-20	3.91	0.490	0.0002	/	Pass
					-10	3.91	-1.543	-0.0006	/	Pass
				0	3.91	-0.784	-0.0003	/	Pass	
					10	3.91	0.477	0.0002	/	Pass
					30	3.91	1.939	0.0007	/	Pass
	40	3.91	-1.232		-0.0005	/	Pass			
	50	3.91	1.600		0.0006	/	Pass			
	2610	100	0		20	3.7	2.485	0.0010	/	Pass
				3.91		1.444	0.0006	/	Pass	
				4.4		-0.820	-0.0003	/	Pass	
				-30	3.91	2.120	0.0008	/	Pass	
					-20	3.91	1.292	0.0005	/	Pass
-10					3.91	-1.903	-0.0007	/	Pass	
0				3.91	0.241	0.0001	/	Pass		
				10	3.91	2.180	0.0008	/	Pass	
				30	3.91	2.224	0.0009	/	Pass	
	40	3.91	-0.879	-0.0003	/	Pass				
	50	3.91	1.462	0.0006	/	Pass				
	16QAM	2580	100	0	20	3.7	-0.256	-0.0001	/	Pass
3.91						-0.440	-0.0002	/	Pass	
4.4						-0.098	0.0000	/	Pass	
-30					3.91	-2.475	-0.0010	/	Pass	
					-20	3.91	-0.864	-0.0003	/	Pass



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64QAM	2595	100	0	-10	3.91	-1.210	-0.0005	/	Pass		
				0	3.91	-1.414	-0.0005	/	Pass		
				10	3.91	-2.144	-0.0008	/	Pass		
				30	3.91	1.563	0.0006	/	Pass		
				40	3.91	-1.630	-0.0006	/	Pass		
				50	3.91	0.570	0.0002	/	Pass		
	2595	100	0	20	3.7	1.689	0.0007	/	Pass		
					3.91	1.520	0.0006	/	Pass		
					4.4	-0.796	-0.0003	/	Pass		
				-30	3.91	-2.321	-0.0009	/	Pass		
				-20	3.91	-1.127	-0.0004	/	Pass		
				-10	3.91	-0.404	-0.0002	/	Pass		
				0	3.91	1.588	0.0006	/	Pass		
				10	3.91	0.768	0.0003	/	Pass		
				30	3.91	-0.522	-0.0002	/	Pass		
				40	3.91	-1.385	-0.0005	/	Pass		
	50	3.91	-1.448	-0.0006	/	Pass					
	2610	100	0	20	3.7	1.704	0.0007	/	Pass		
					3.91	-2.559	-0.0010	/	Pass		
					4.4	0.594	0.0002	/	Pass		
				-30	3.91	0.796	0.0003	/	Pass		
				-20	3.91	-0.509	-0.0002	/	Pass		
				-10	3.91	-1.072	-0.0004	/	Pass		
				0	3.91	0.175	0.0001	/	Pass		
10				3.91	0.578	0.0002	/	Pass			
30				3.91	1.569	0.0006	/	Pass			
40				3.91	1.842	0.0007	/	Pass			
50	3.91	1.533	0.0006	/	Pass						
2580	100	0	20	3.7	-1.167	-0.0005	/	Pass			
				3.91	-1.248	-0.0005	/	Pass			
				4.4	2.805	0.0011	/	Pass			
			-30	3.91	-1.239	-0.0005	/	Pass			
			-20	3.91	-0.977	-0.0004	/	Pass			
			-10	3.91	-0.911	-0.0004	/	Pass			
			0	3.91	-2.378	-0.0009	/	Pass			
			10	3.91	-1.188	-0.0005	/	Pass			
			30	3.91	1.407	0.0005	/	Pass			
			40	3.91	-0.180	-0.0001	/	Pass			
			50	3.91	-2.584	-0.0010	/	Pass			
			2595	100	0	20	3.7	-1.899	-0.0007	/	Pass
							3.91	-1.682	-0.0006	/	Pass
							4.4	0.133	0.0001	/	Pass
-30	3.91	0.545				0.0002	/	Pass			
-20	3.91	-0.025				0.0000	/	Pass			
-10	3.91	0.401				0.0002	/	Pass			
0	3.91	-0.518				-0.0002	/	Pass			
10	3.91	0.148				0.0001	/	Pass			
30	3.91	1.419	0.0005	/	Pass						



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				40	3.91	1.558	0.0006	/	Pass
				50	3.91	0.696	0.0003	/	Pass
				20	3.7	-0.607	-0.0002	/	Pass
					3.91	-0.653	-0.0003	/	Pass
					4.4	-1.034	-0.0004	/	Pass
				-30	3.91	-0.752	-0.0003	/	Pass
				-20	3.91	0.498	0.0002	/	Pass
				-10	3.91	1.950	0.0007	/	Pass
				0	3.91	-2.231	-0.0009	/	Pass
				10	3.91	-1.283	-0.0005	/	Pass
				30	3.91	-1.101	-0.0004	/	Pass
				40	3.91	-1.012	-0.0004	/	Pass
				50	3.91	0.955	0.0004	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band38_OBW

3.1.1 Test Result

Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	4.572	/	Pass
		2595	25	0	4.582	/	Pass
		2617.5	25	0	4.580	/	Pass
	16QAM	2572.5	25	0	4.567	/	Pass
		2595	25	0	4.577	/	Pass
		2617.5	25	0	4.564	/	Pass
	64QAM	2572.5	25	0	4.585	/	Pass
		2595	25	0	4.546	/	Pass
		2617.5	25	0	4.586	/	Pass
10	QPSK	2575	50	0	9.097	/	Pass
		2595	50	0	9.075	/	Pass
		2615	50	0	9.068	/	Pass
	16QAM	2575	50	0	9.082	/	Pass
		2595	50	0	9.089	/	Pass
		2615	50	0	9.116	/	Pass
	64QAM	2575	50	0	9.087	/	Pass
		2595	50	0	9.066	/	Pass
		2615	50	0	9.062	/	Pass
15	QPSK	2577.5	75	0	13.614	/	Pass
		2595	75	0	13.644	/	Pass
		2612.5	75	0	13.626	/	Pass
	16QAM	2577.5	75	0	13.601	/	Pass
		2595	75	0	13.591	/	Pass
		2612.5	75	0	13.641	/	Pass
	64QAM	2577.5	75	0	13.601	/	Pass
		2595	75	0	13.612	/	Pass
		2612.5	75	0	13.602	/	Pass
20	QPSK	2580	100	0	18.177	/	Pass
		2595	100	0	18.108	/	Pass
		2610	100	0	18.133	/	Pass
	16QAM	2580	100	0	18.199	/	Pass
		2595	100	0	18.133	/	Pass
		2610	100	0	18.188	/	Pass
	64QAM	2580	100	0	18.132	/	Pass
		2595	100	0	18.102	/	Pass
		2610	100	0	18.129	/	Pass



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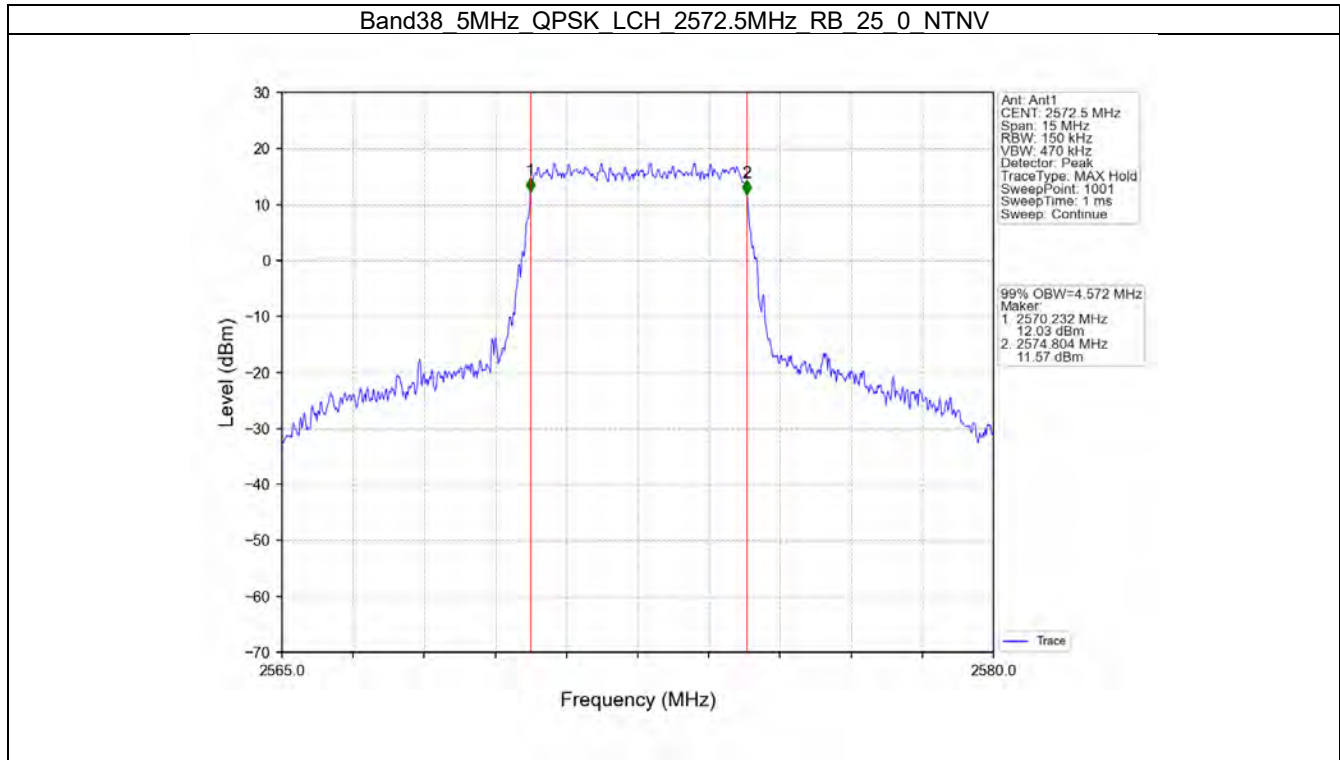
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3.1.2 Test Graph



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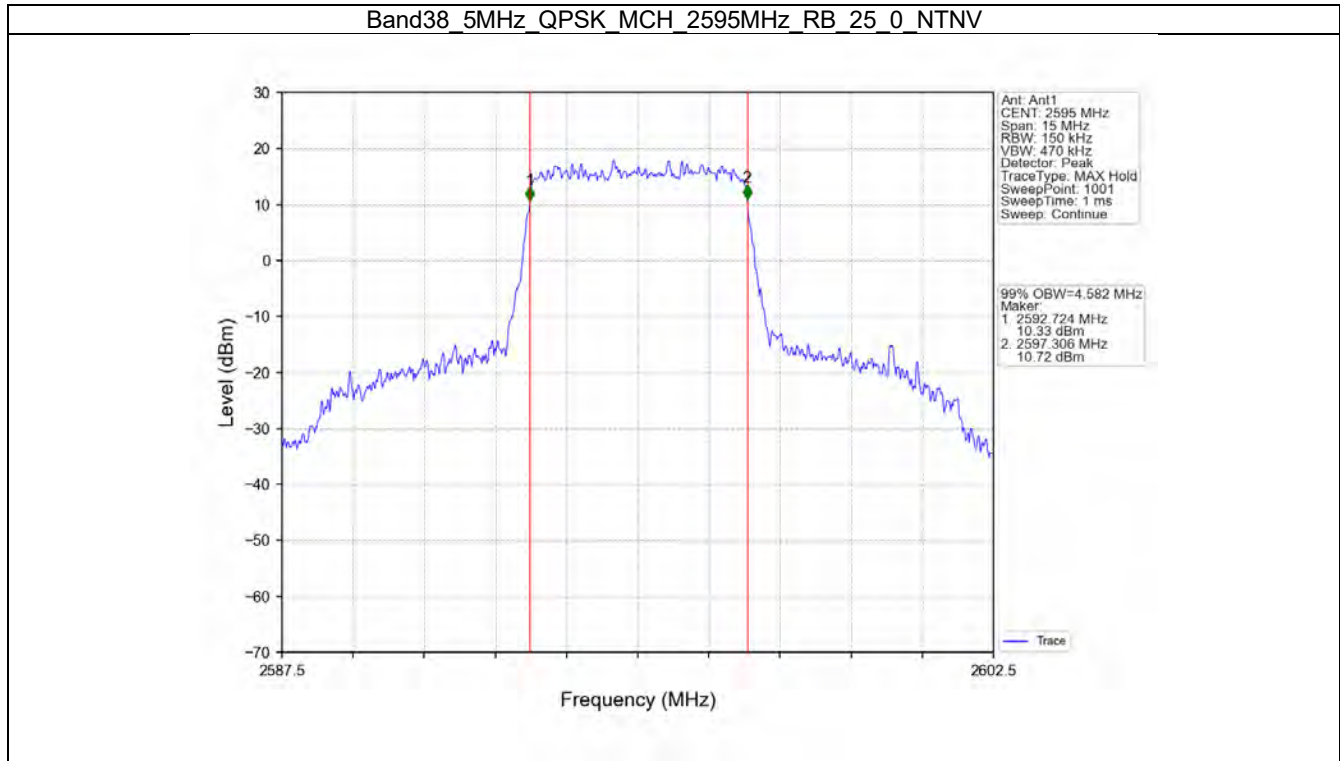


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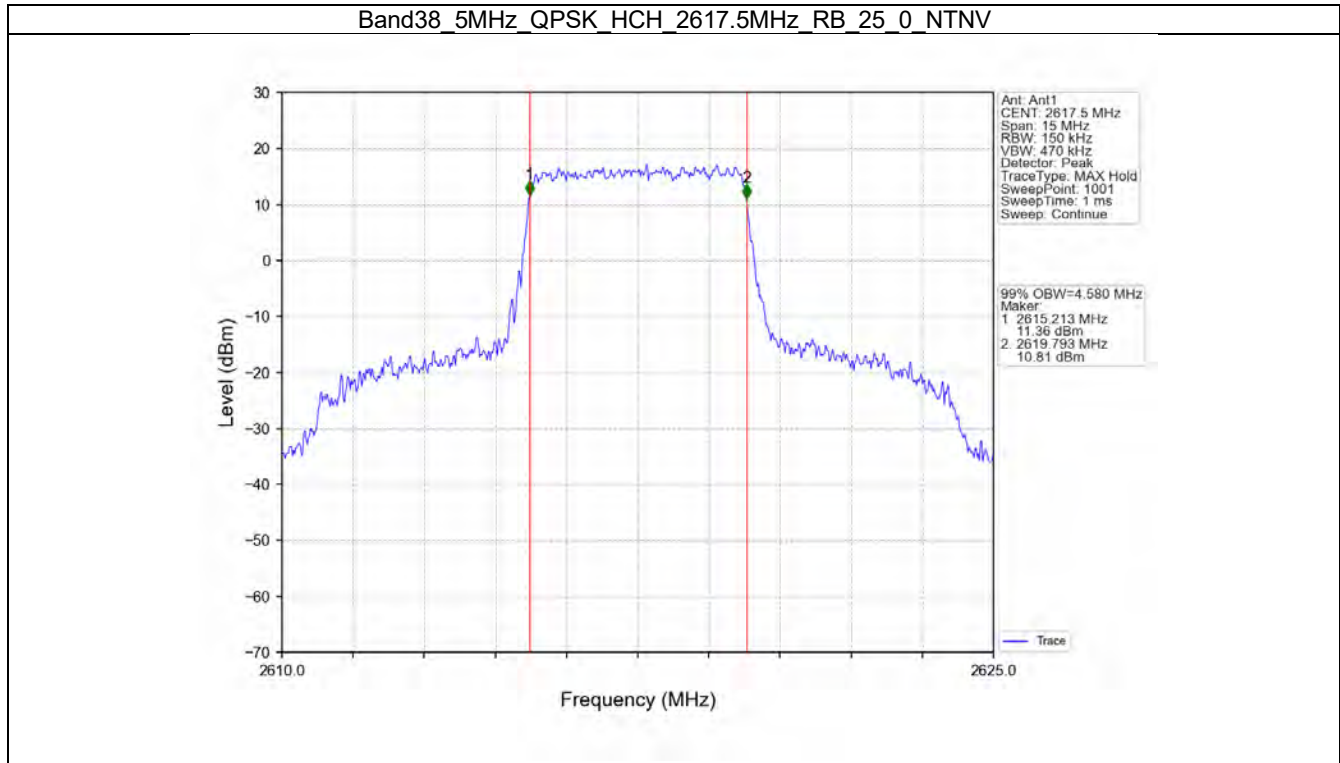


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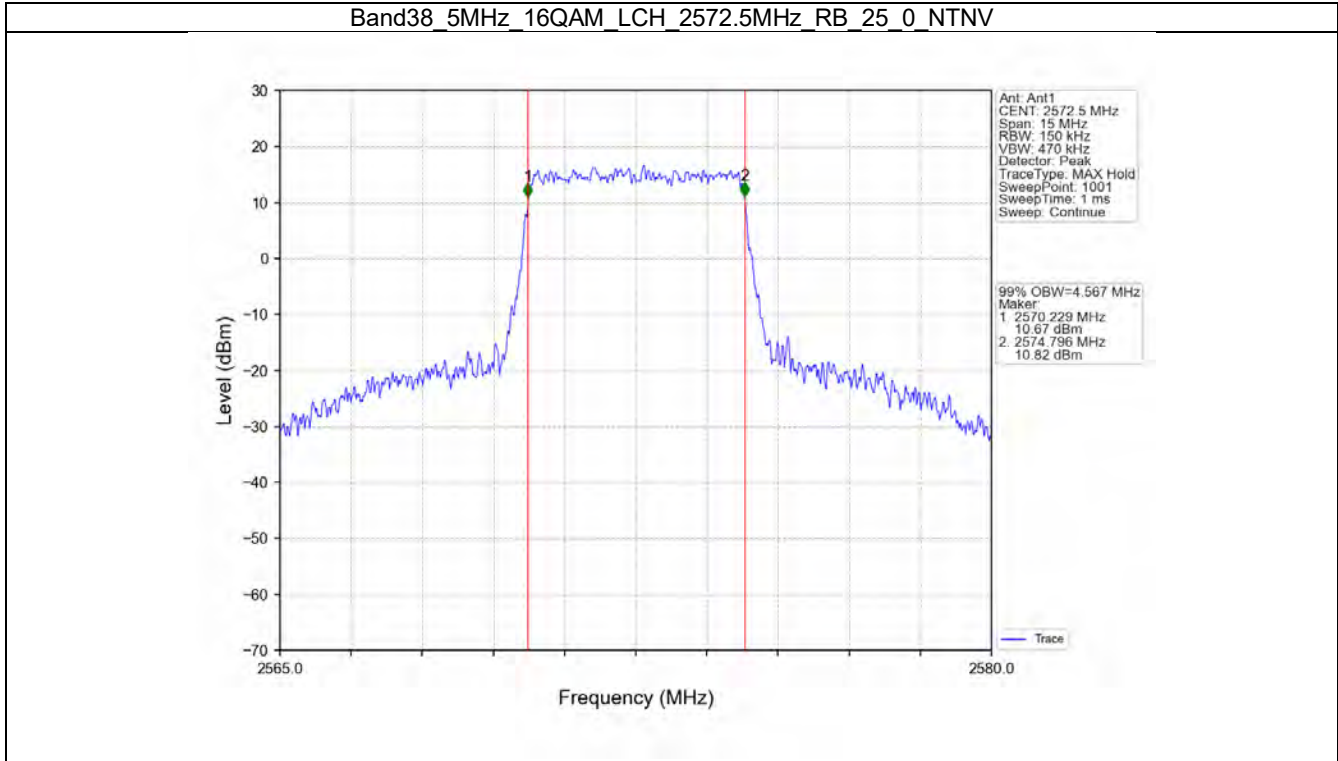


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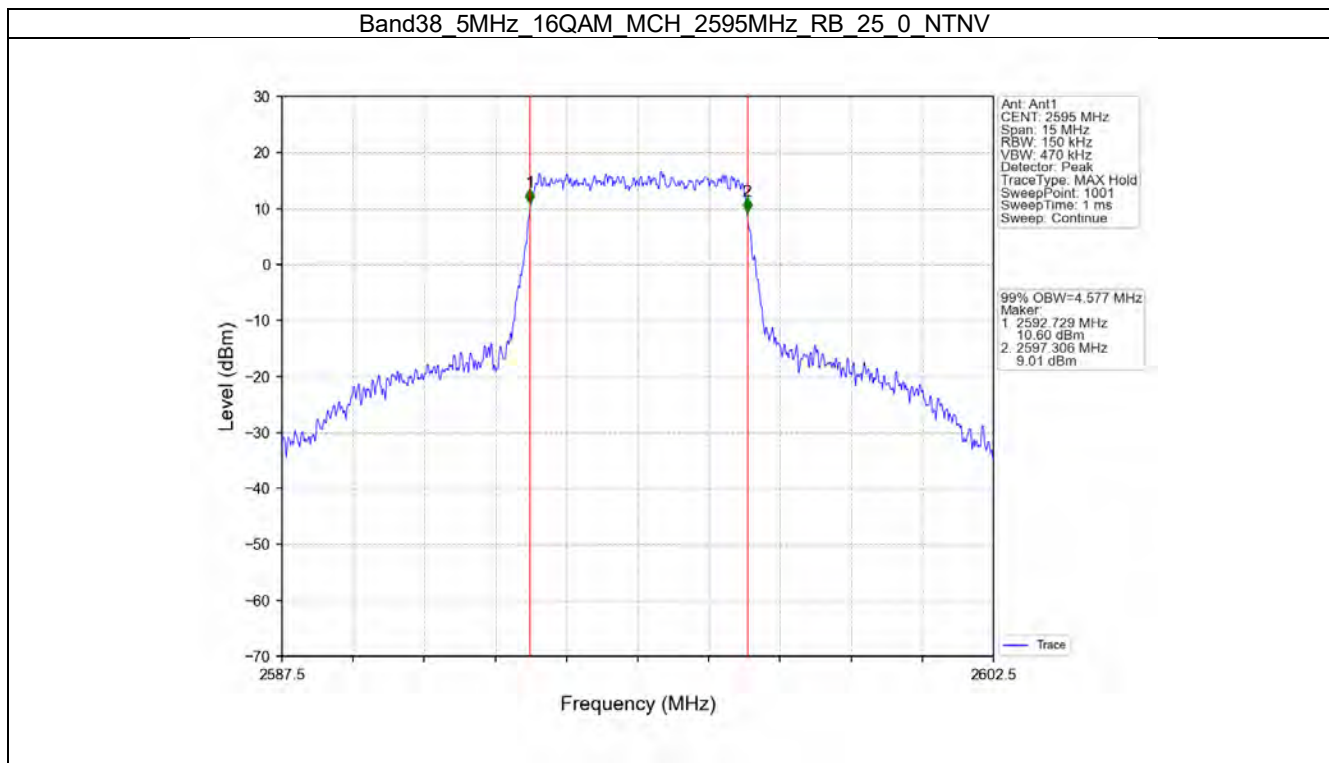
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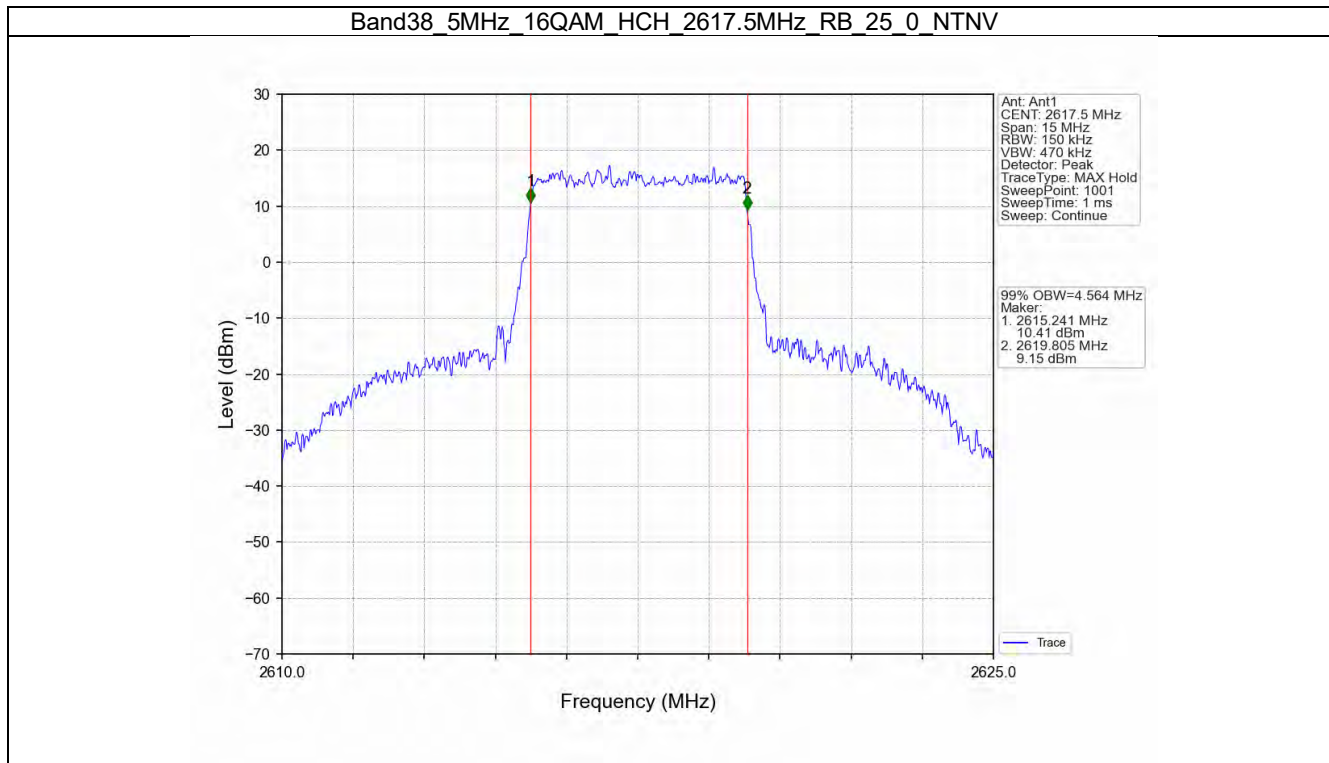
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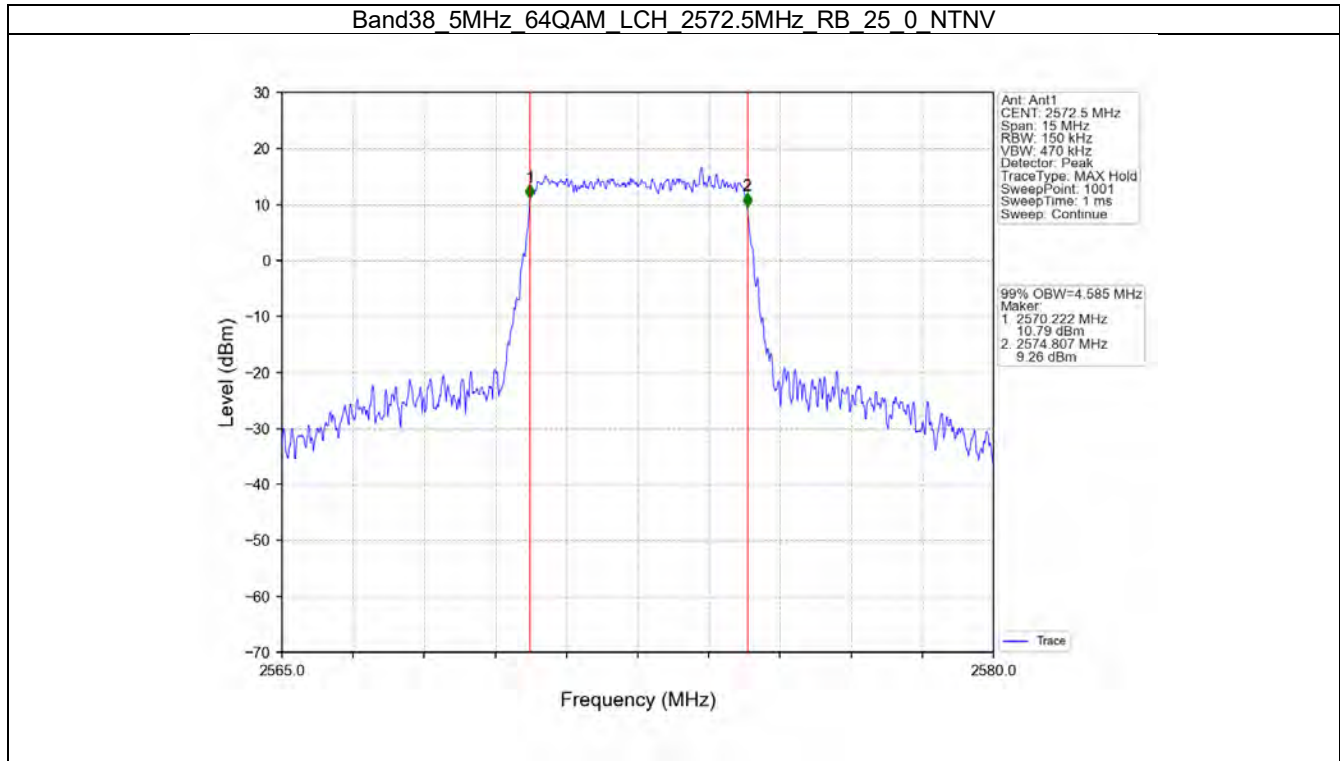


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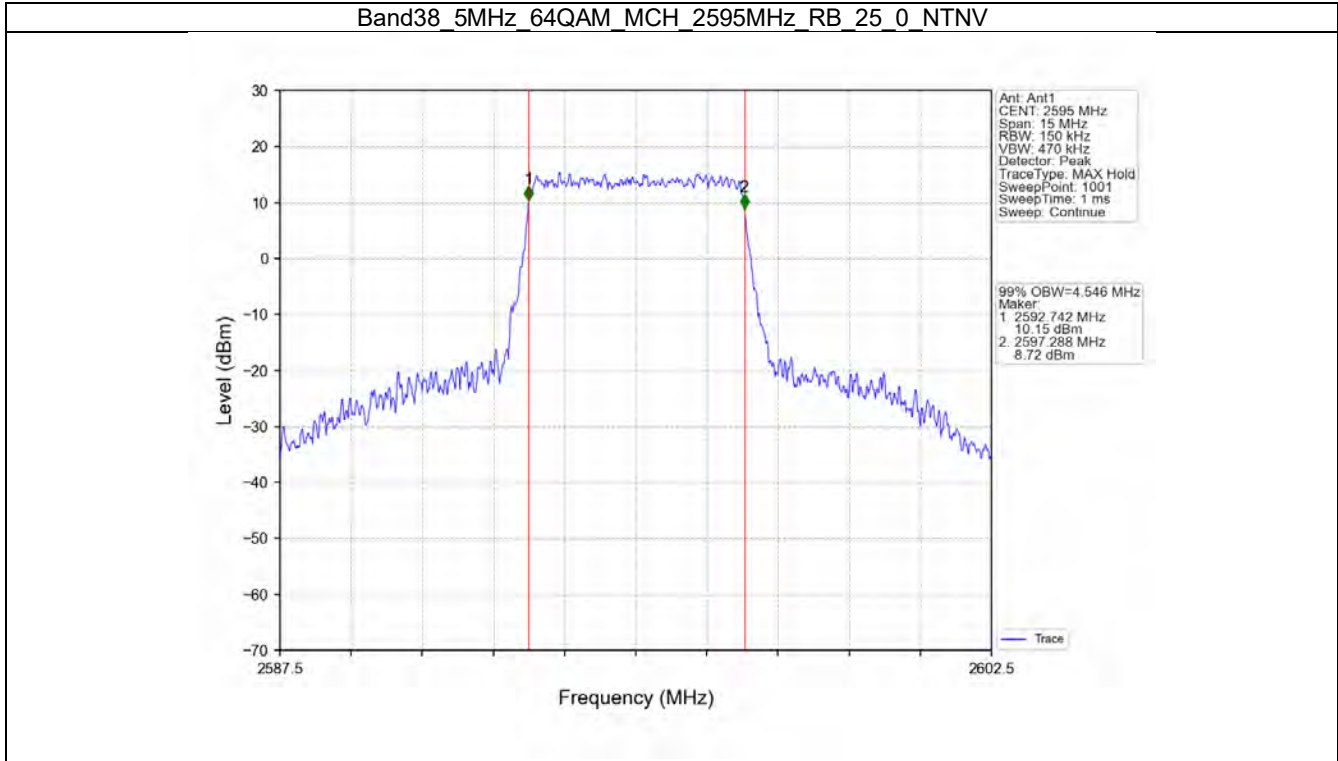


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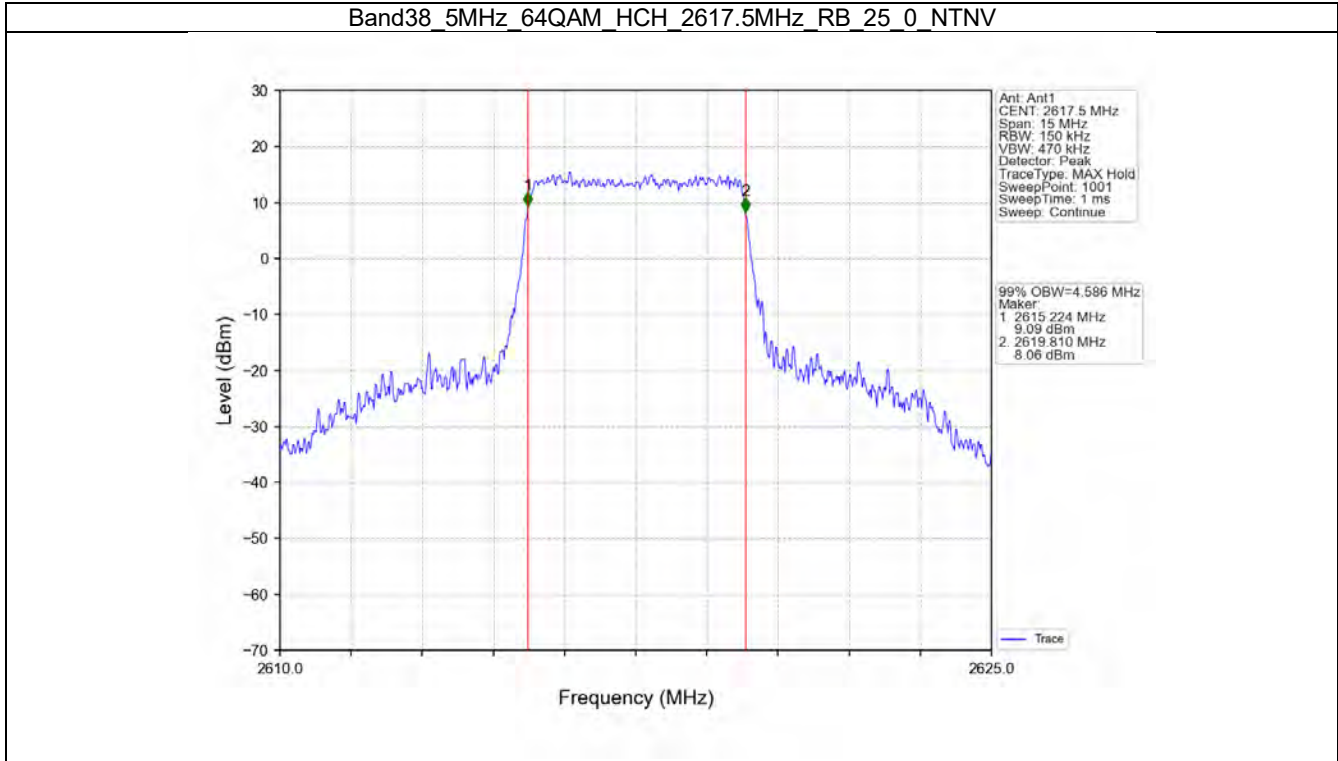


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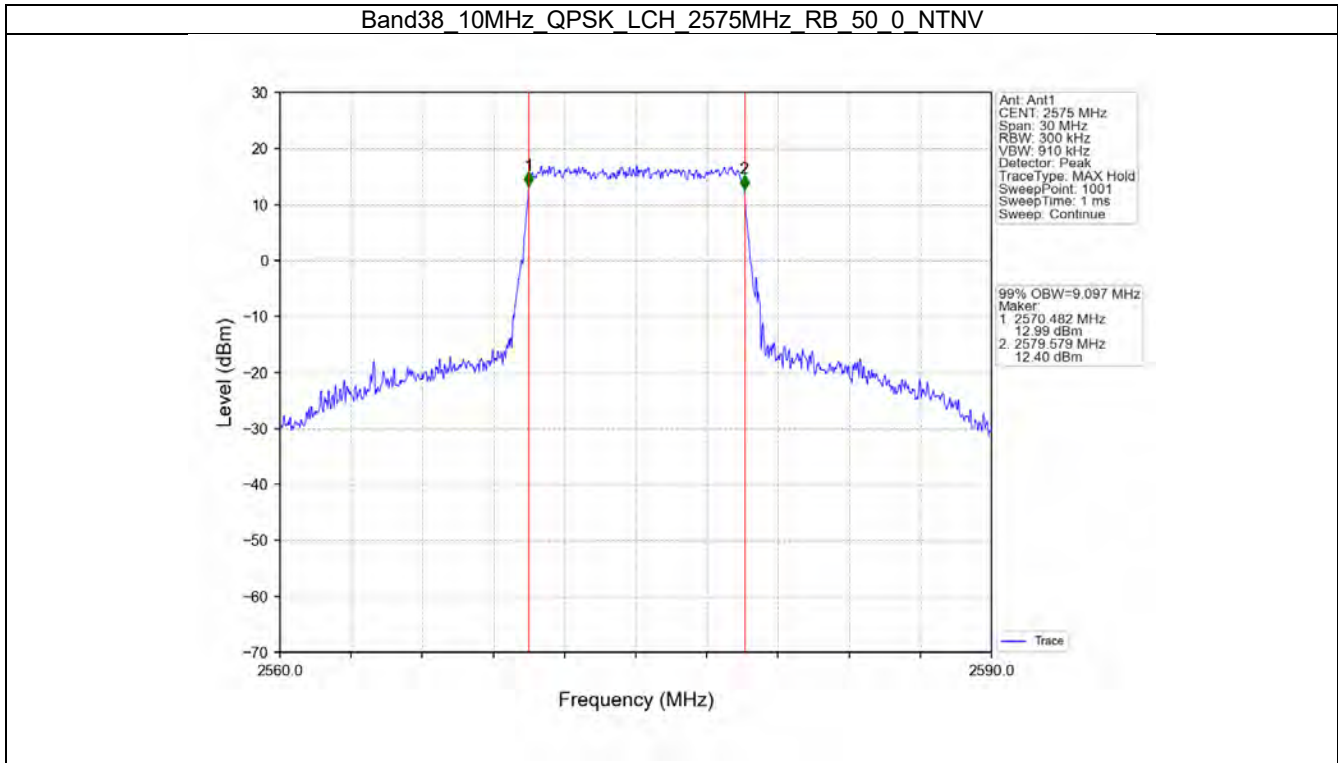


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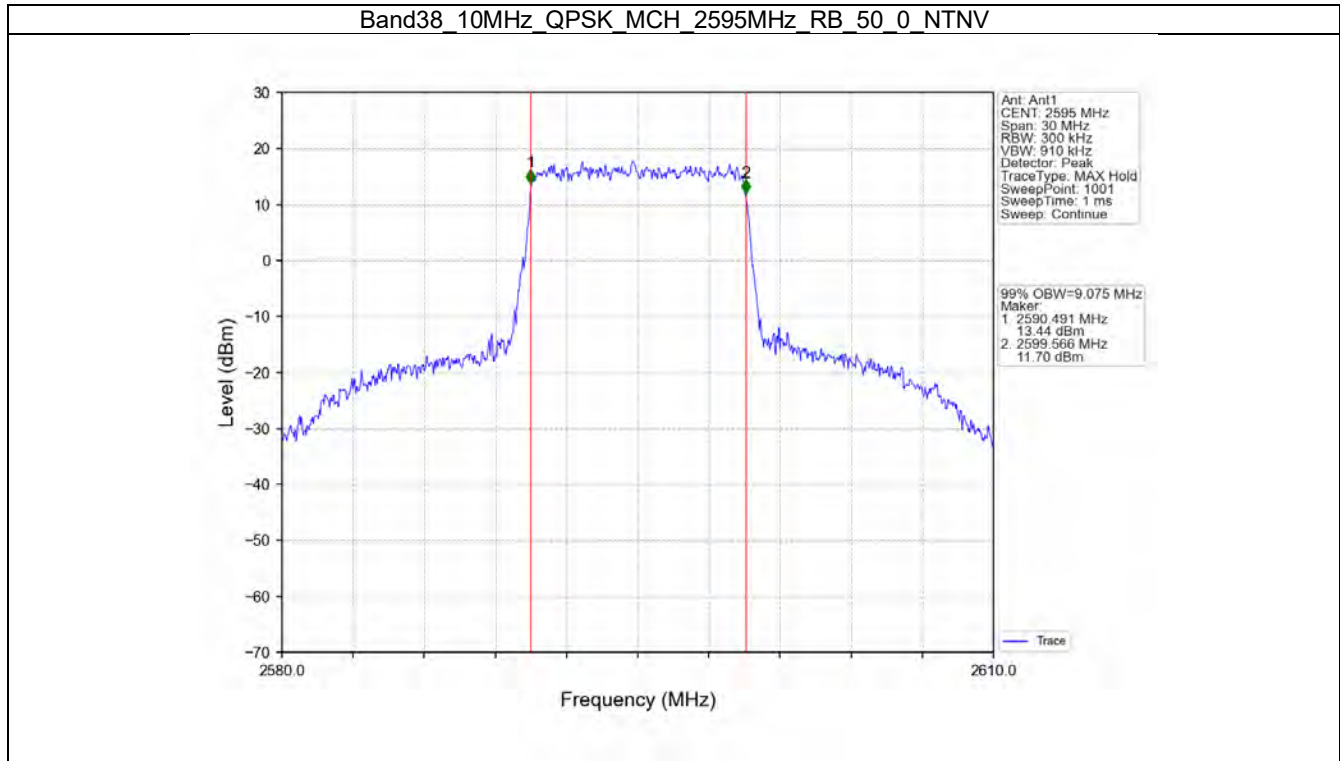


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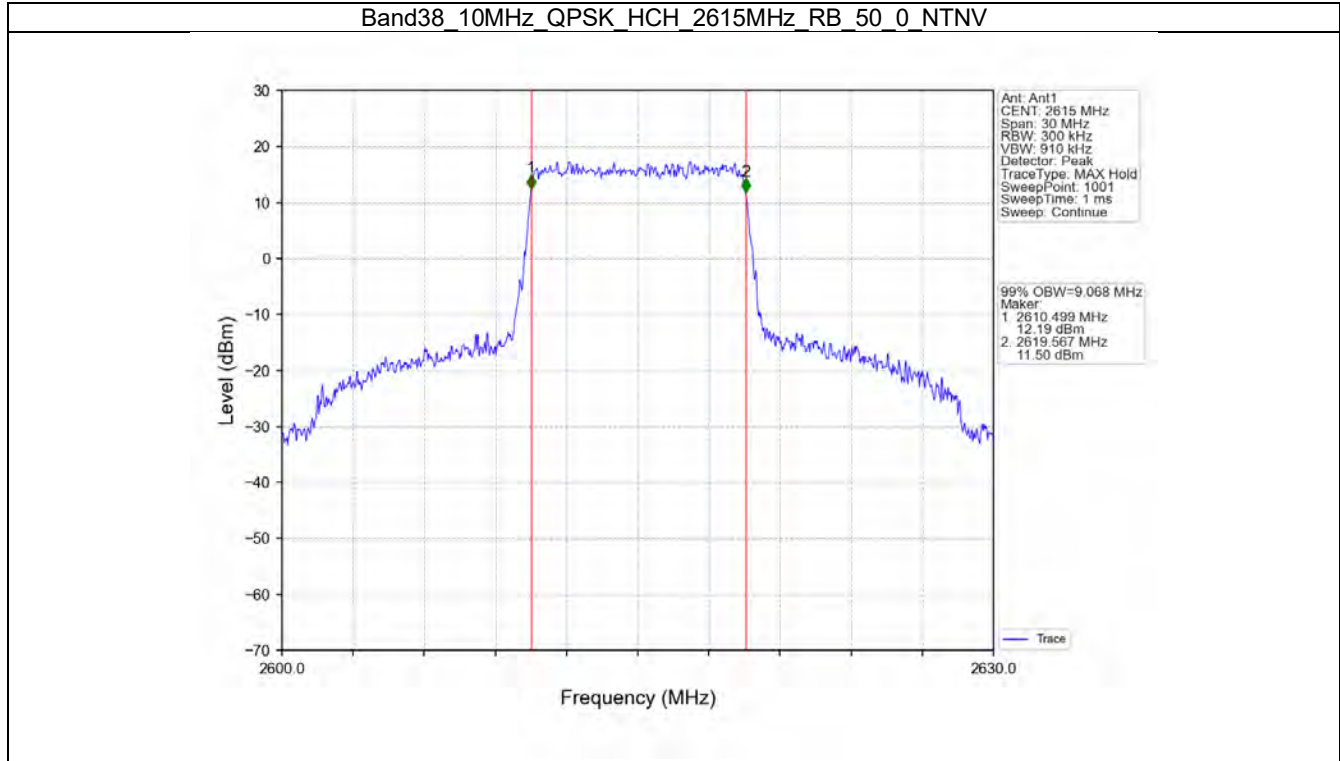


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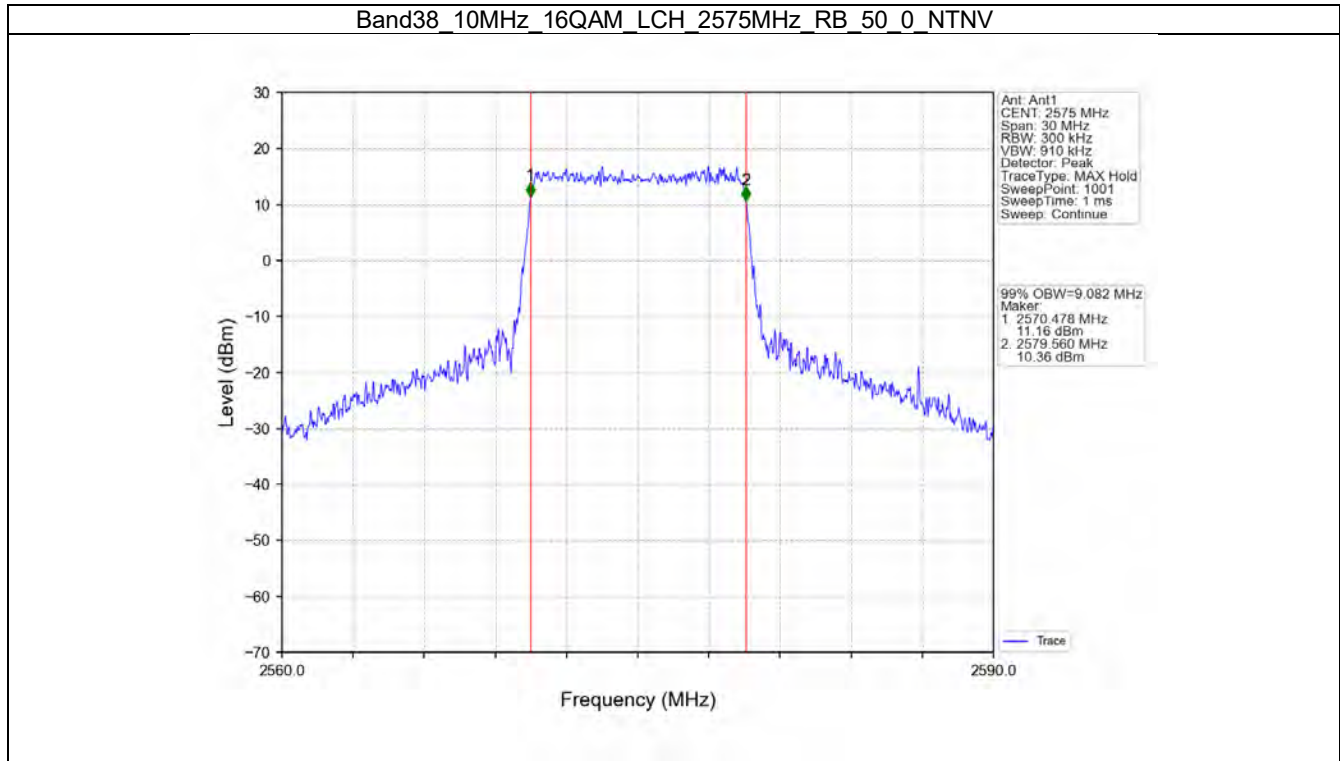


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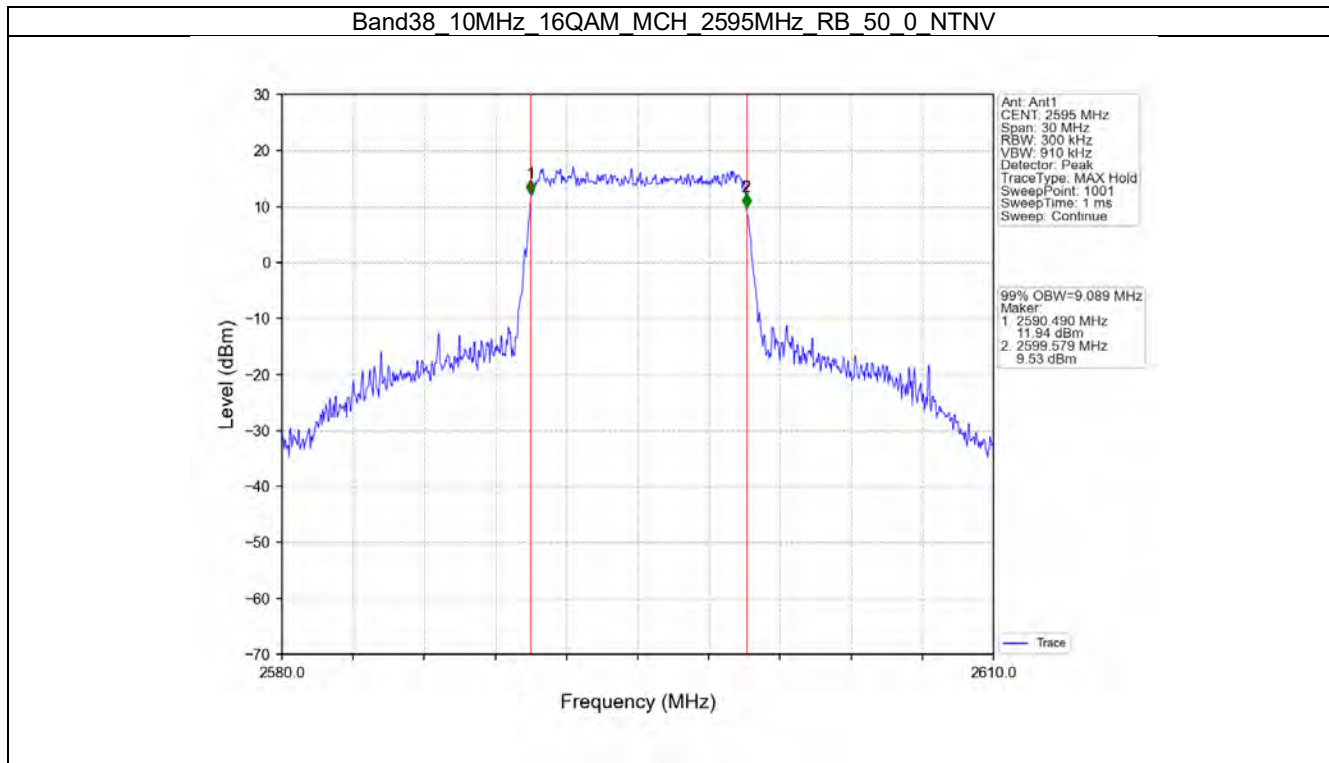
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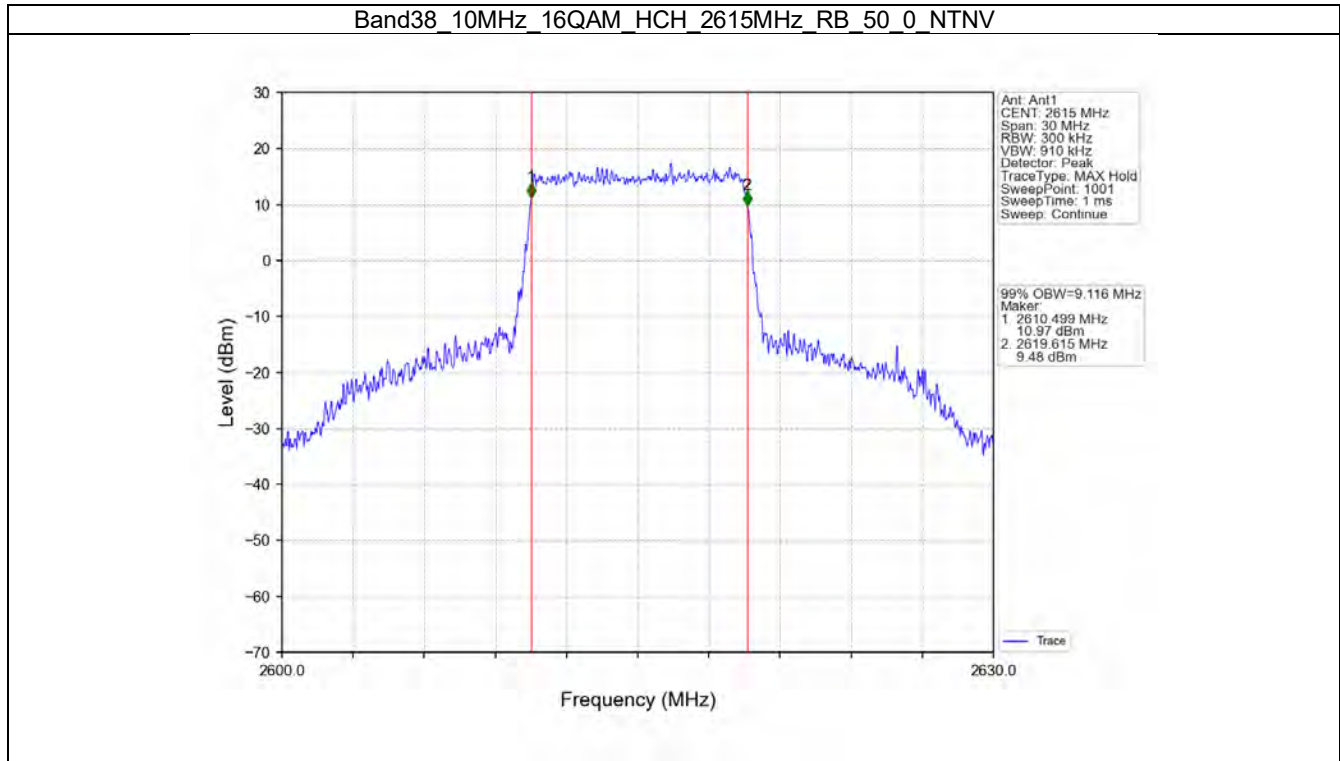


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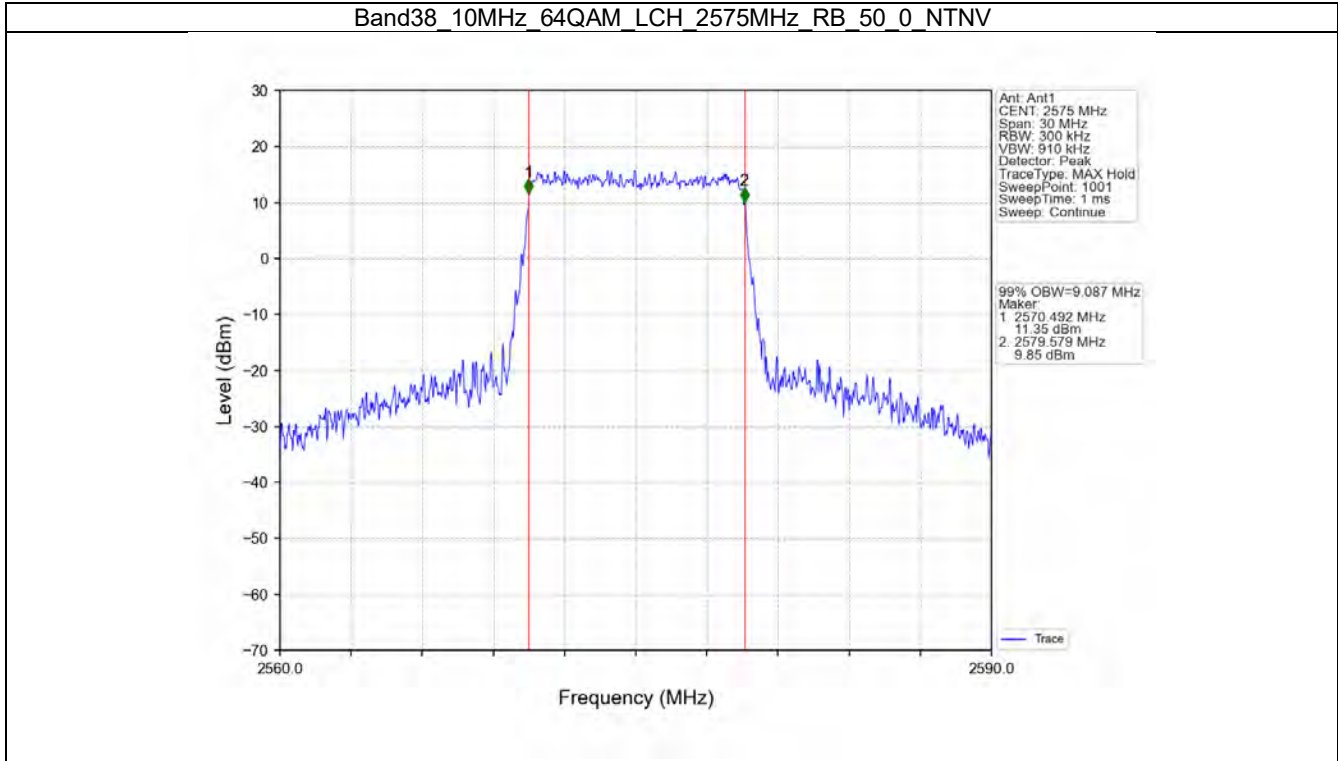


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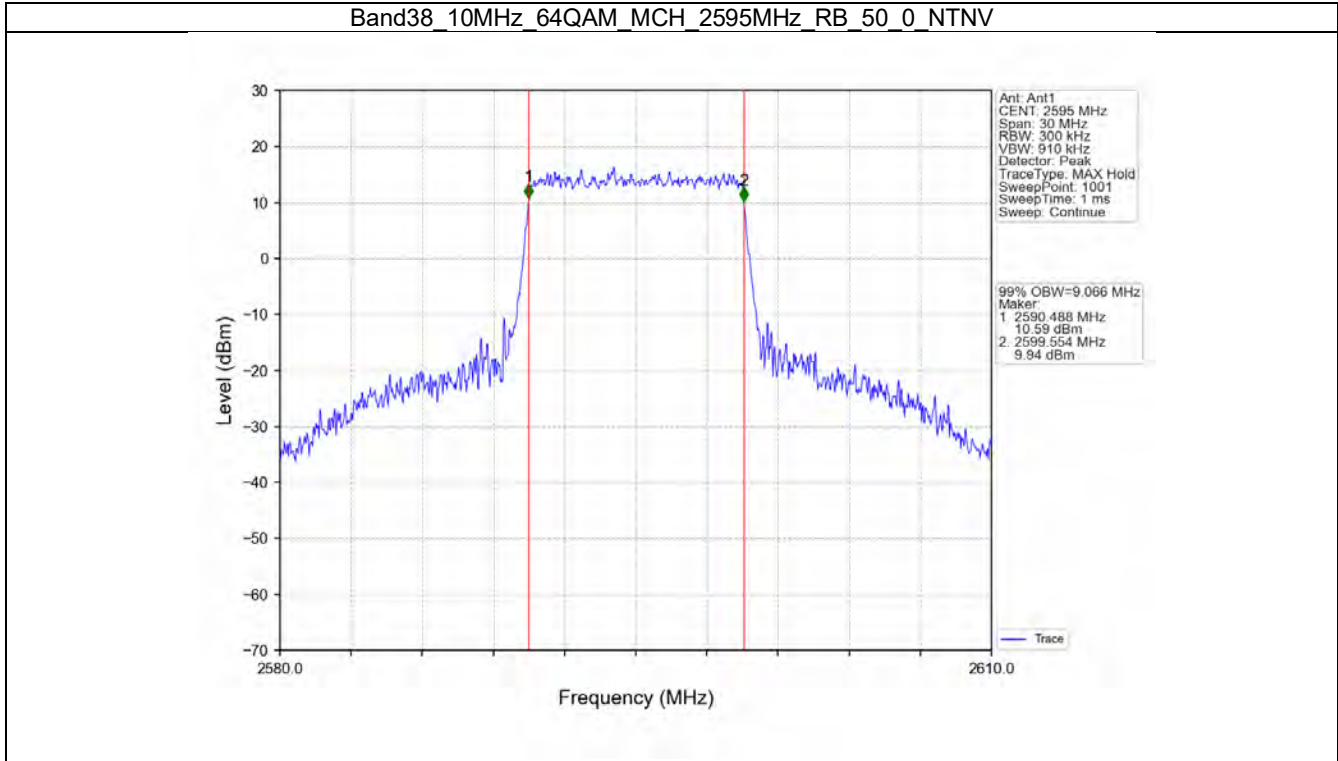


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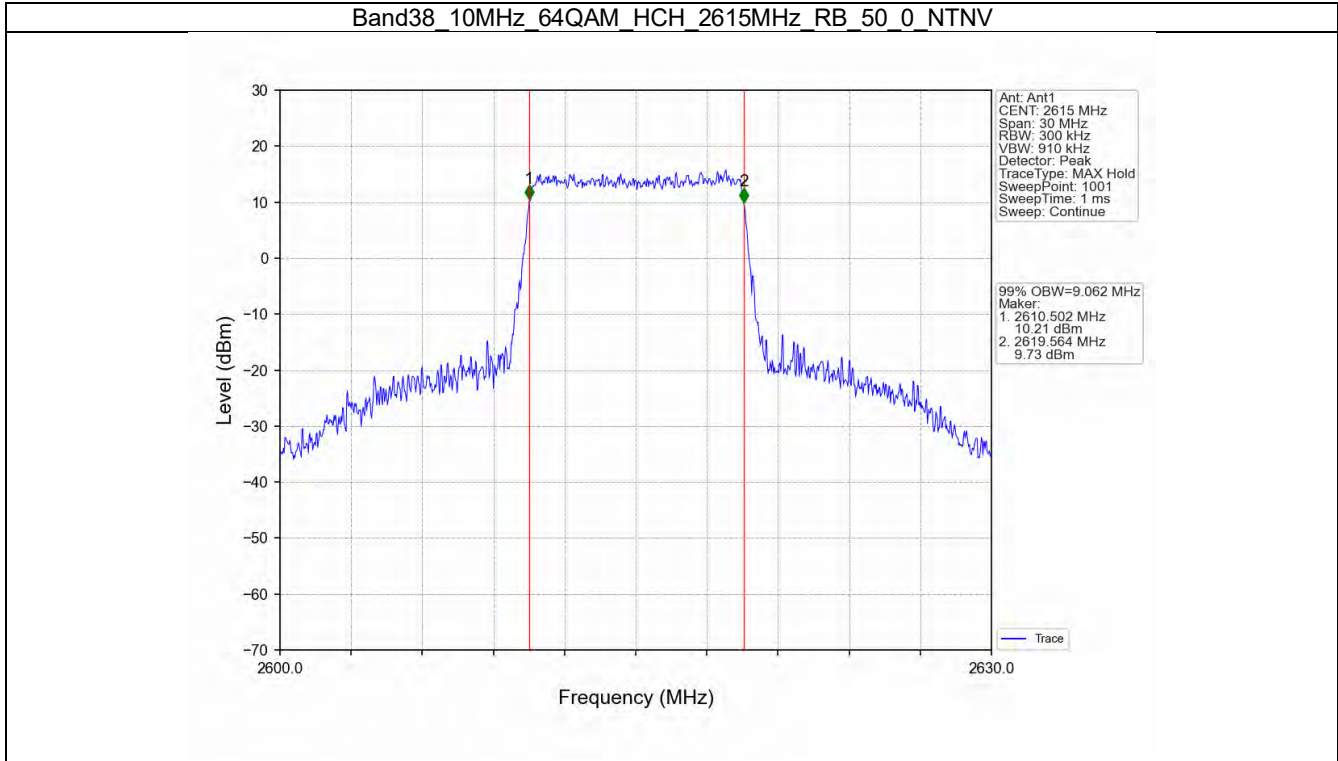


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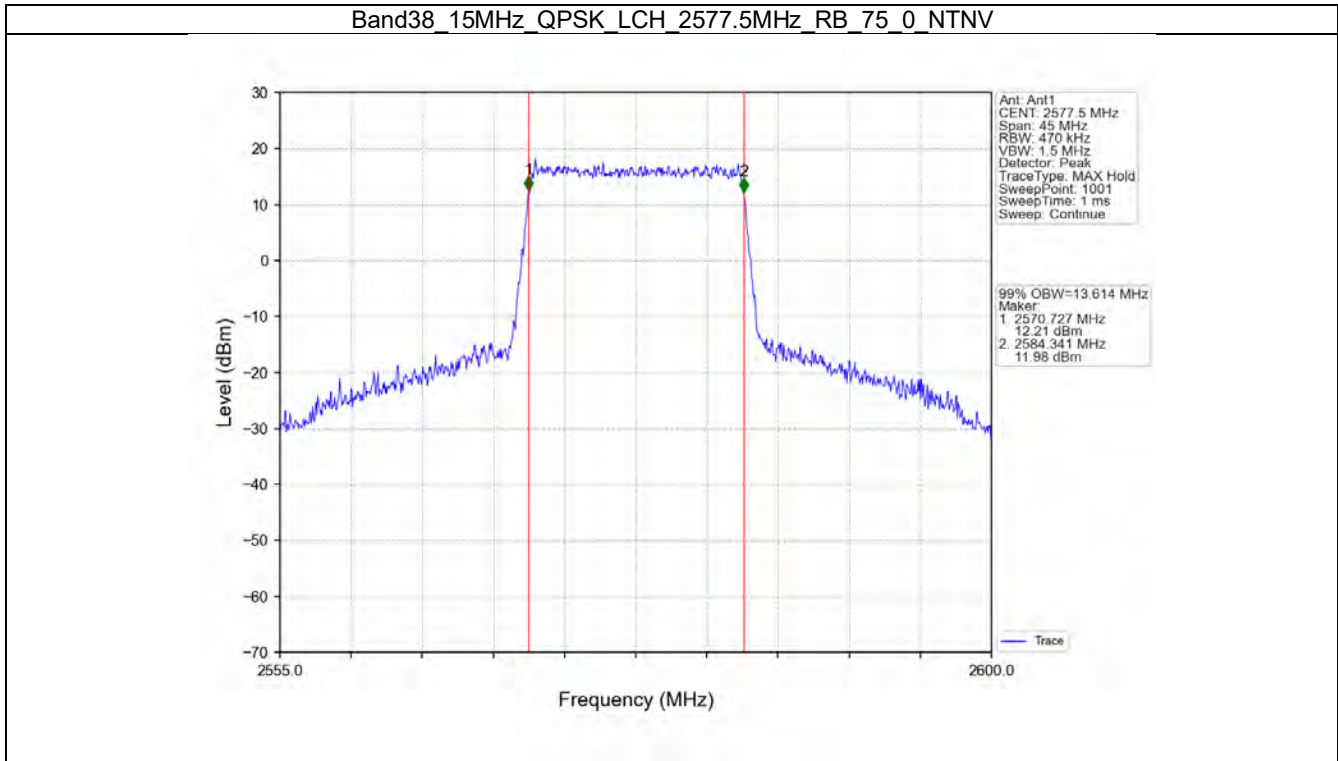


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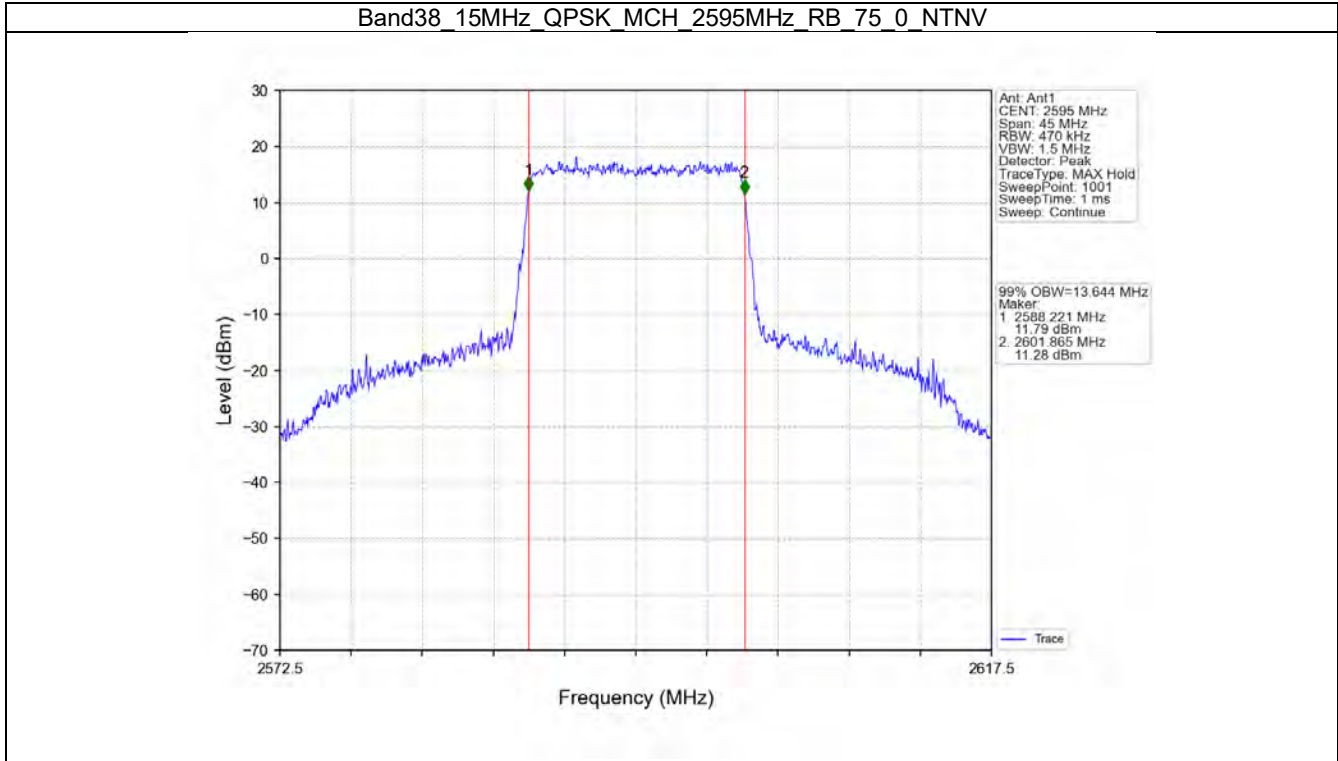


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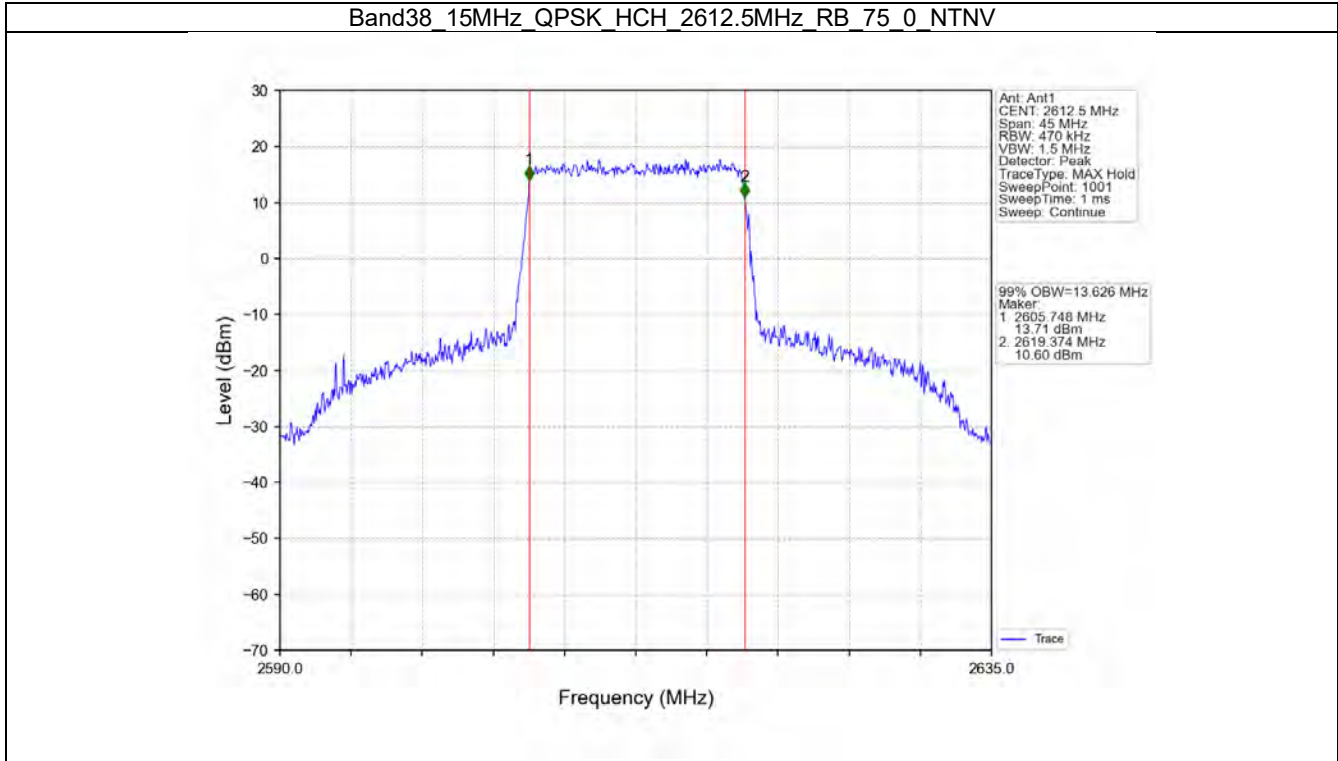


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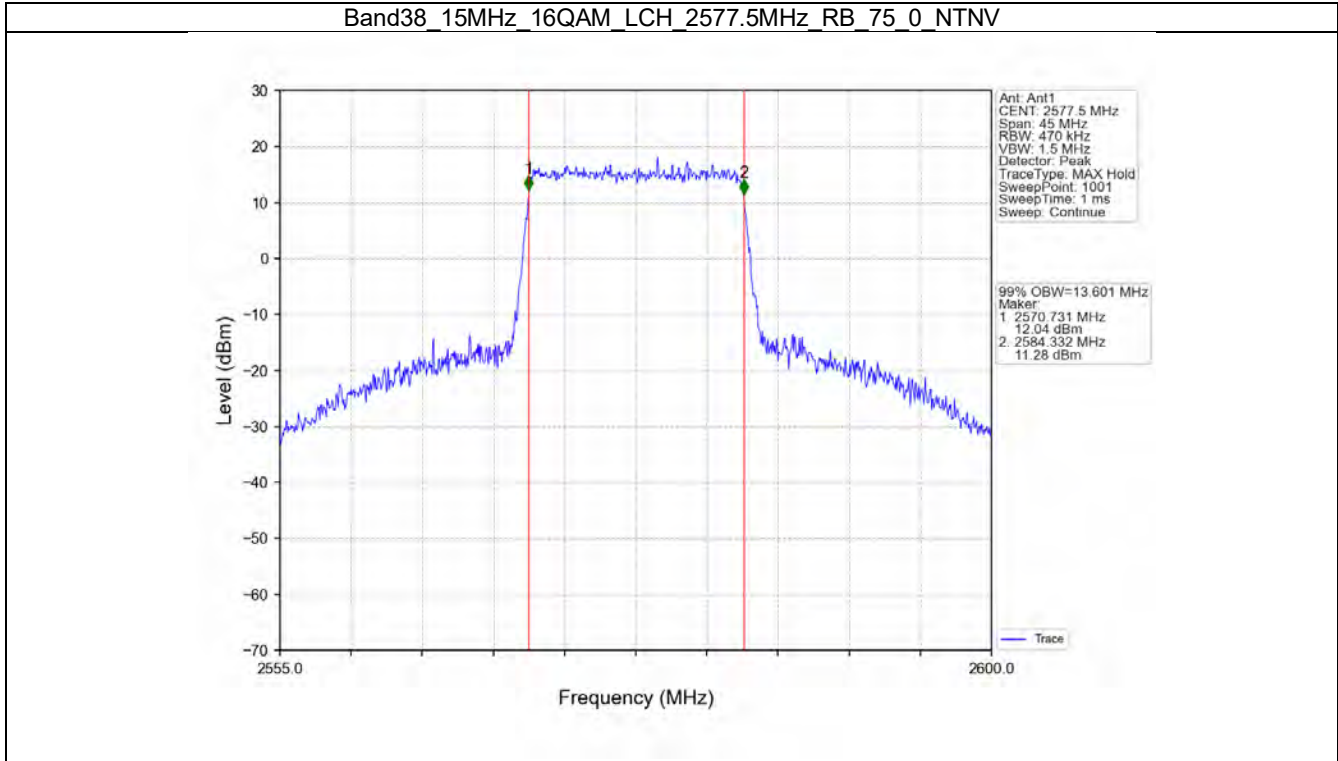


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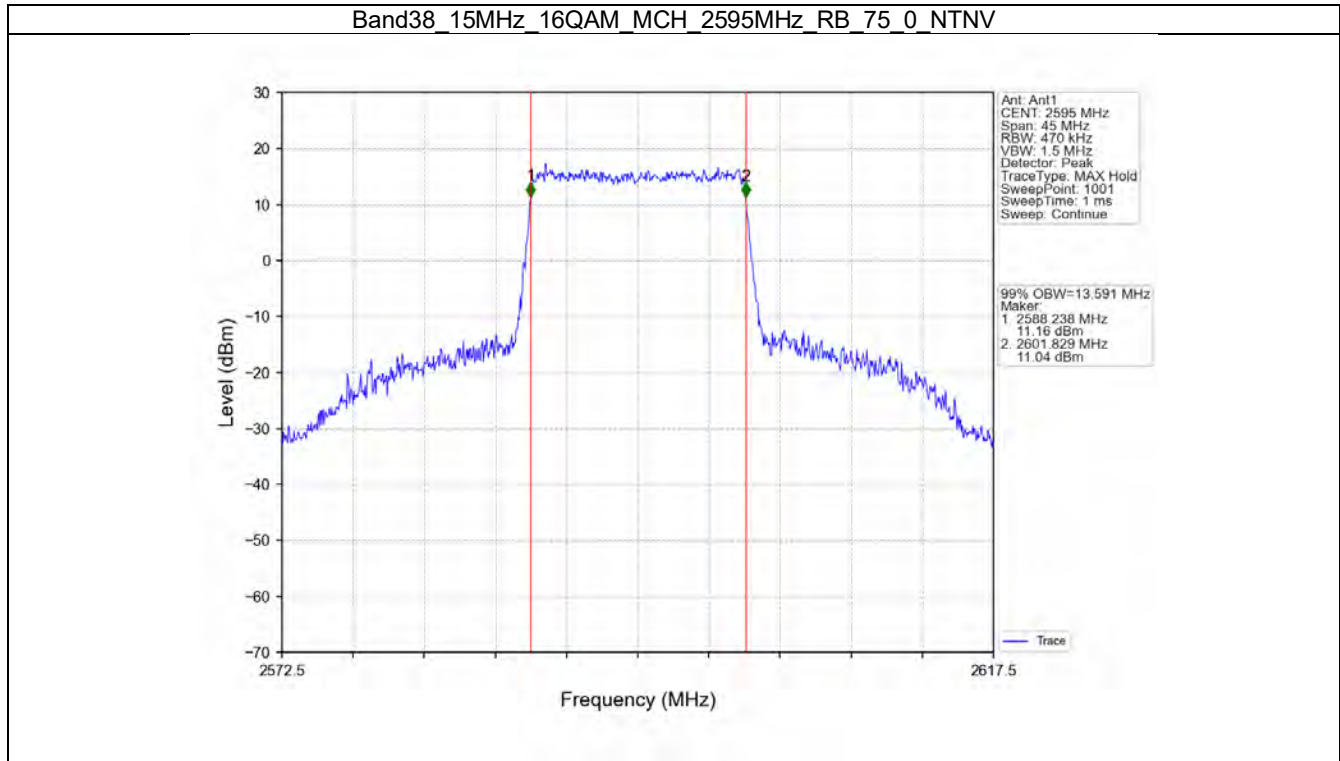


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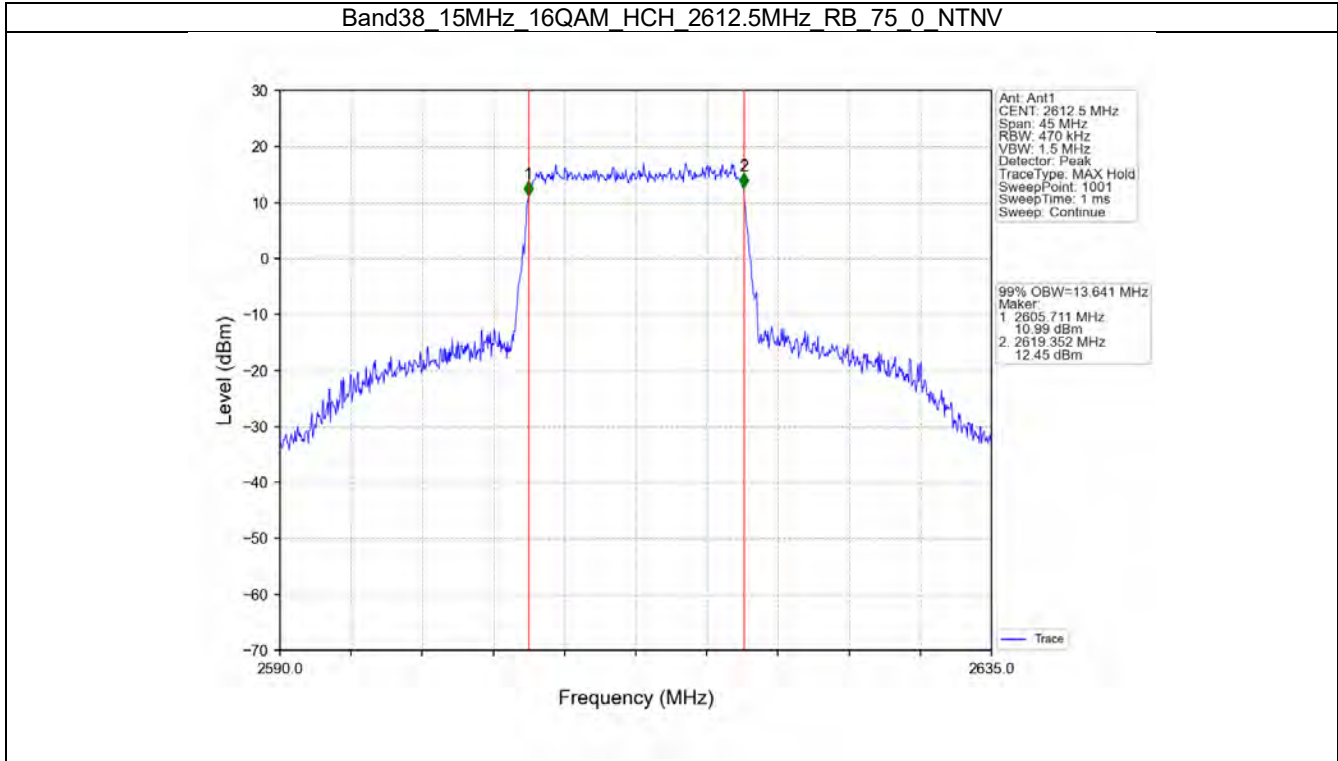


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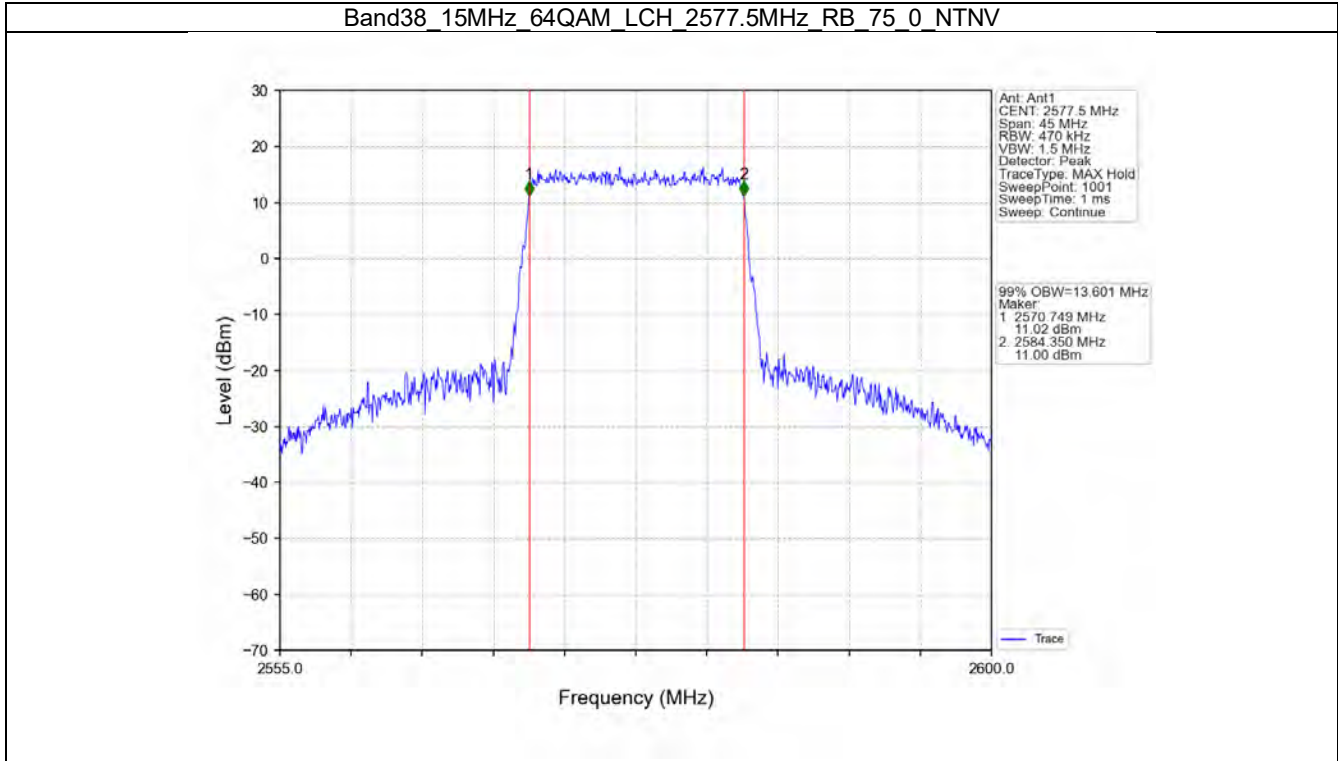


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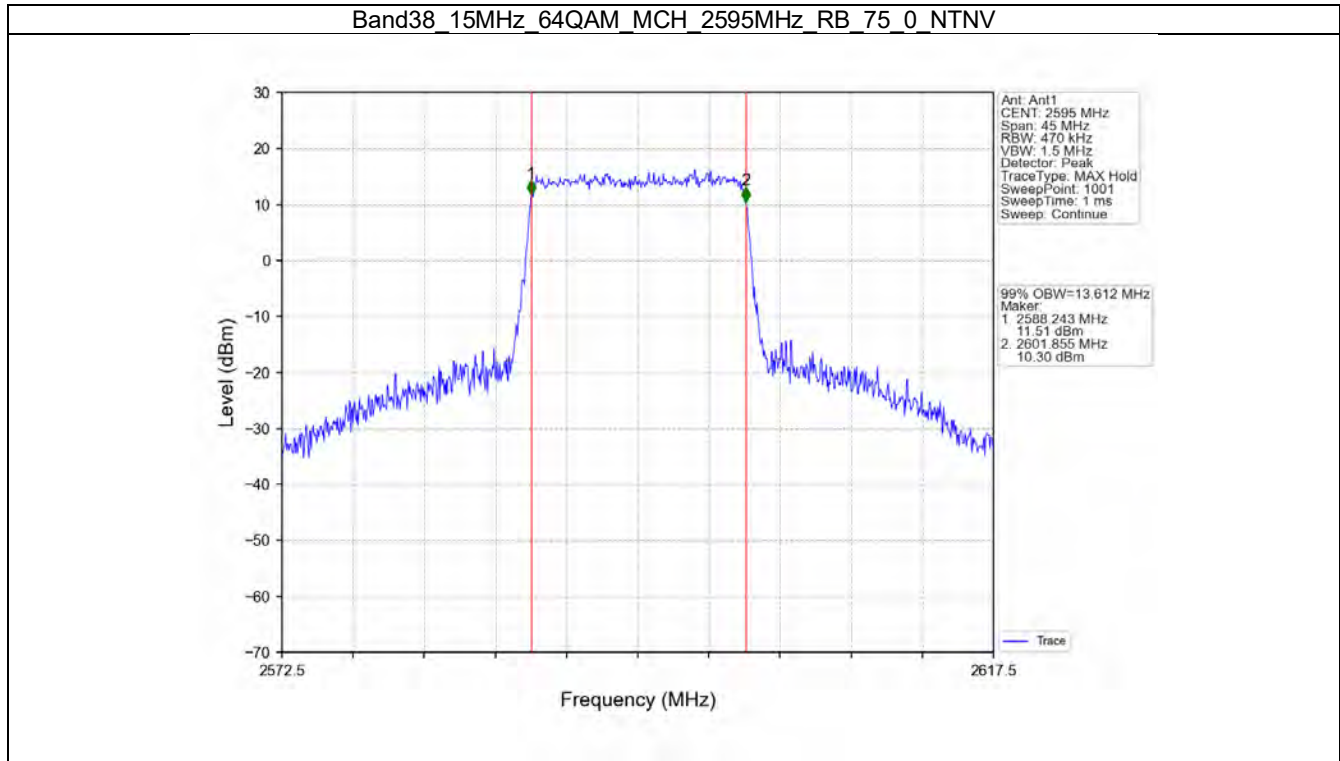


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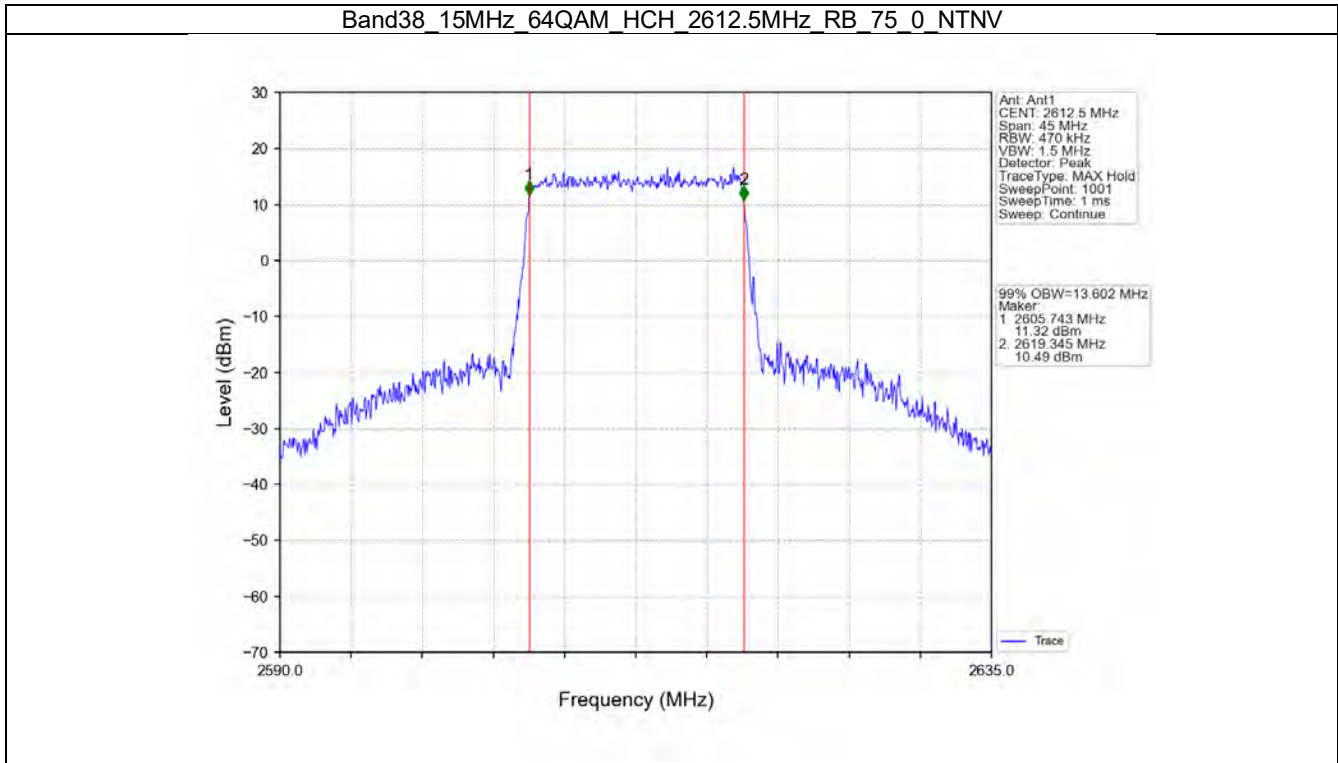


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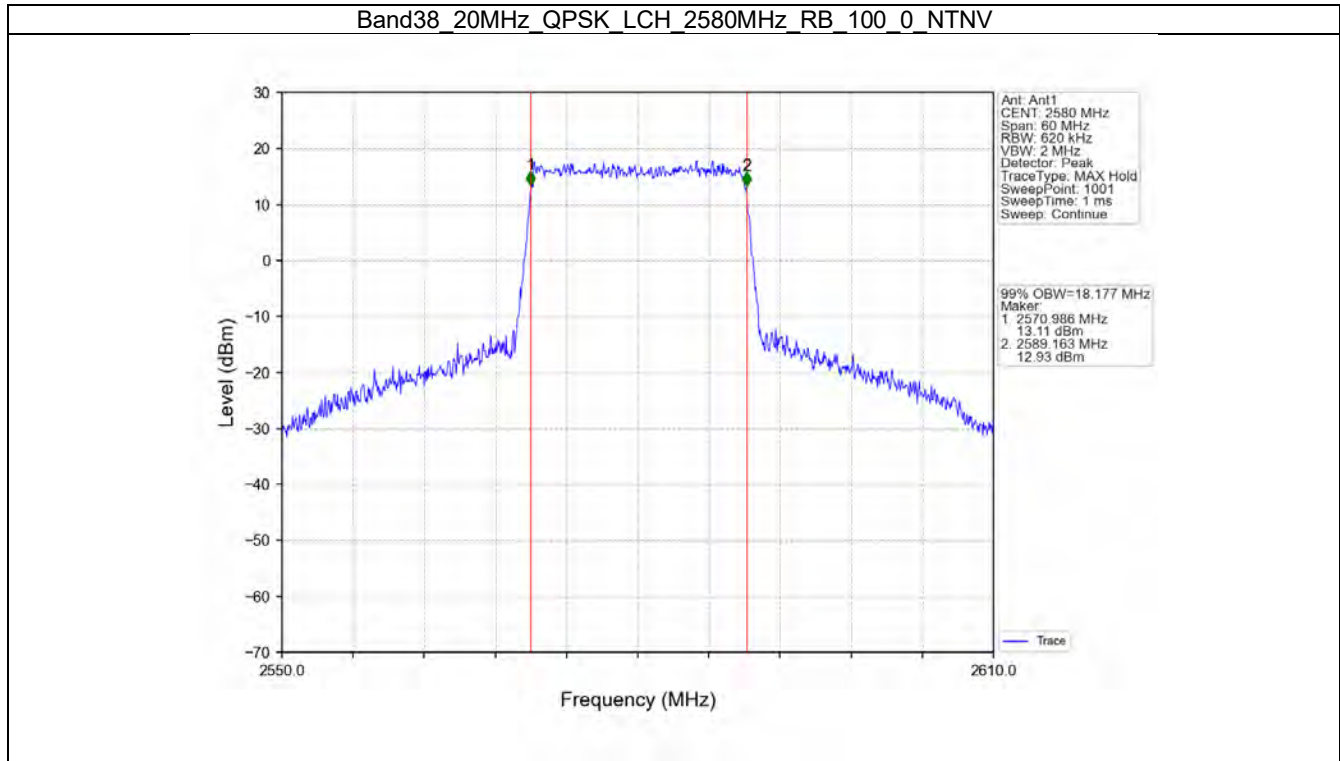


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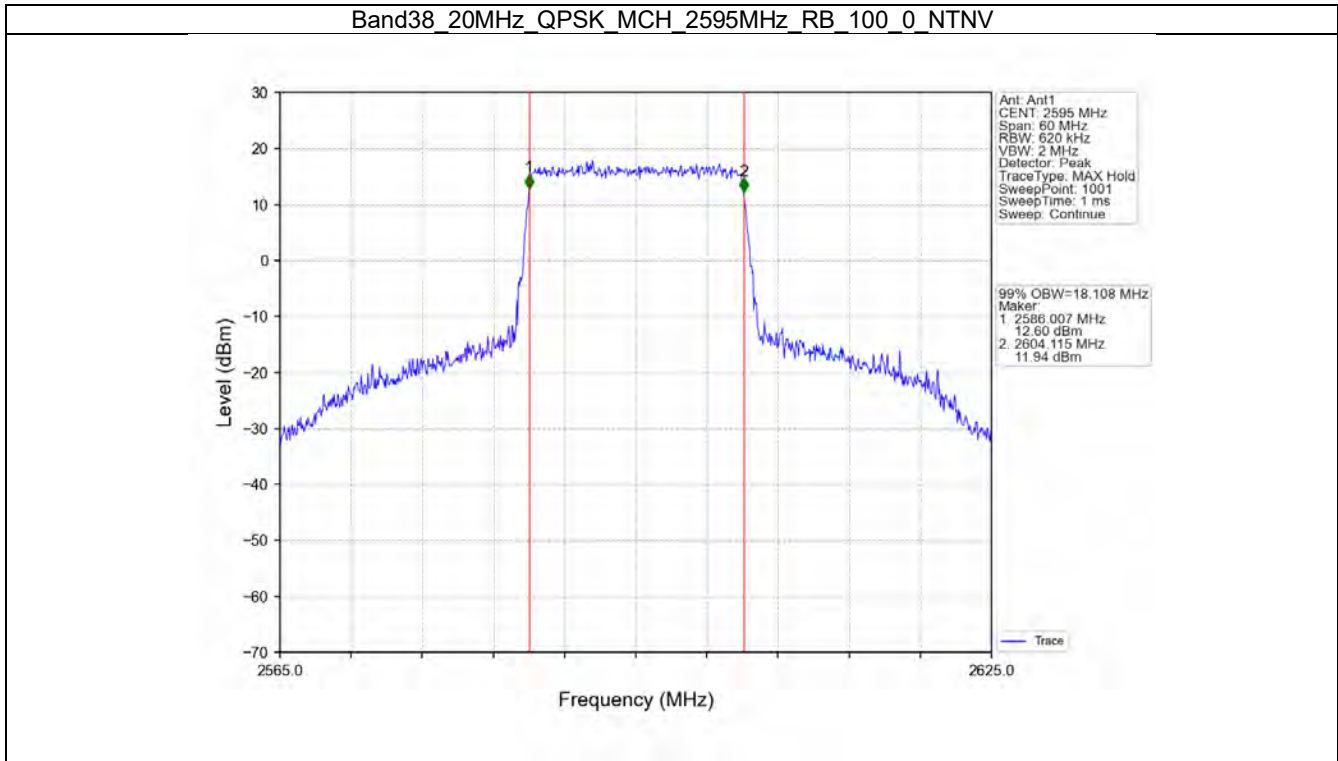


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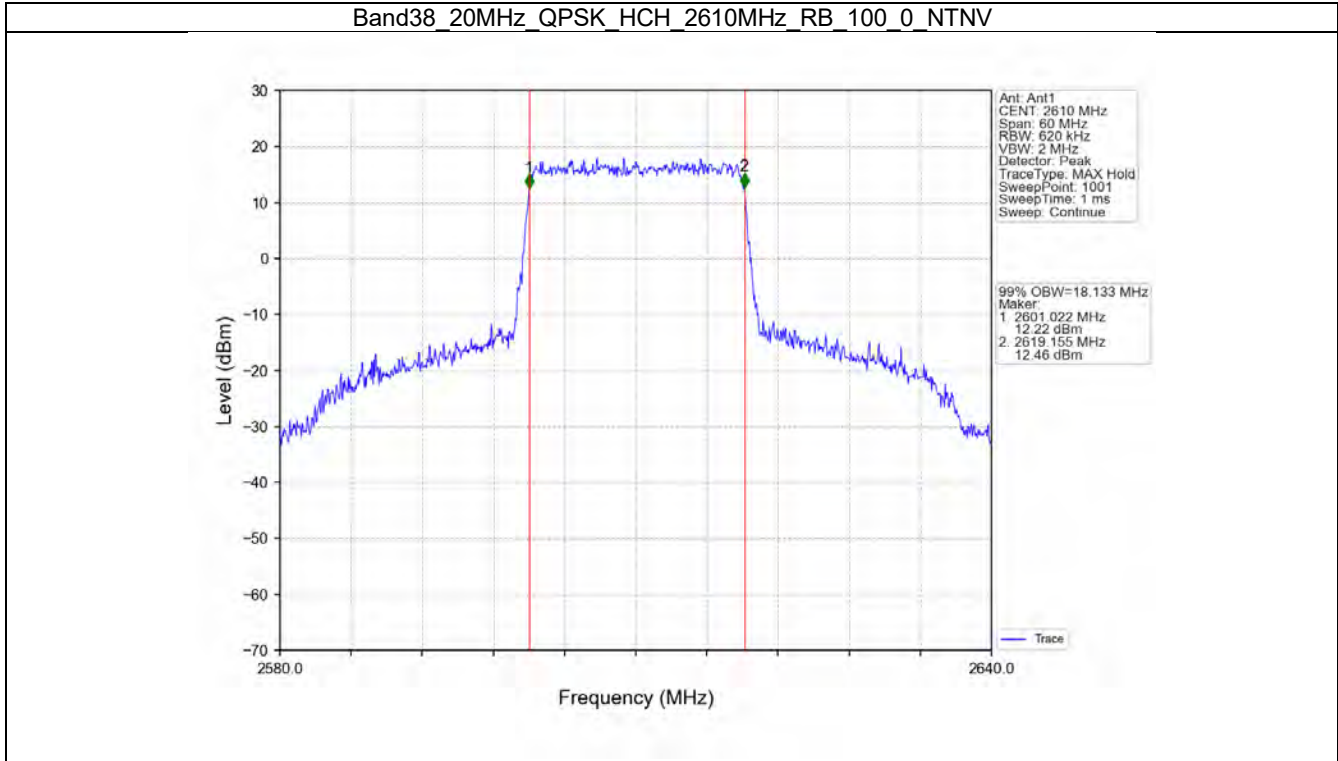


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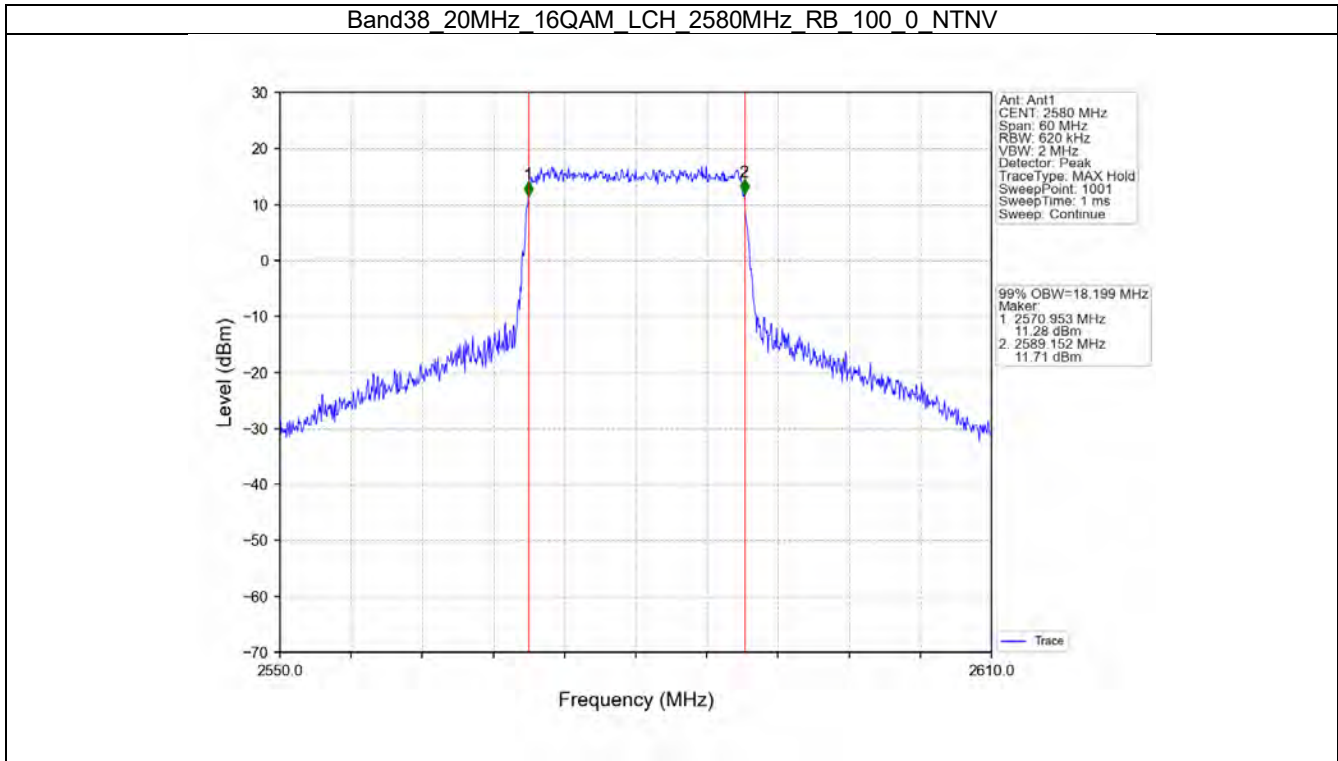


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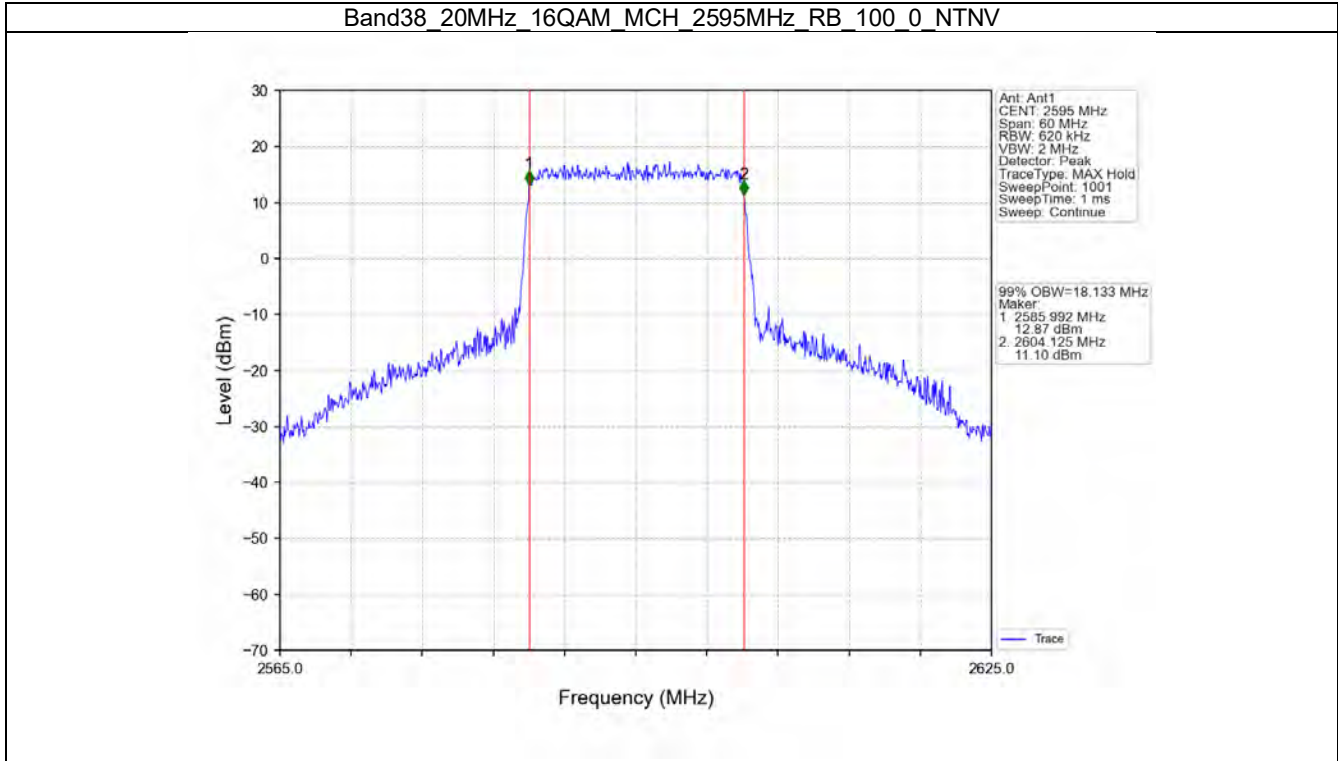


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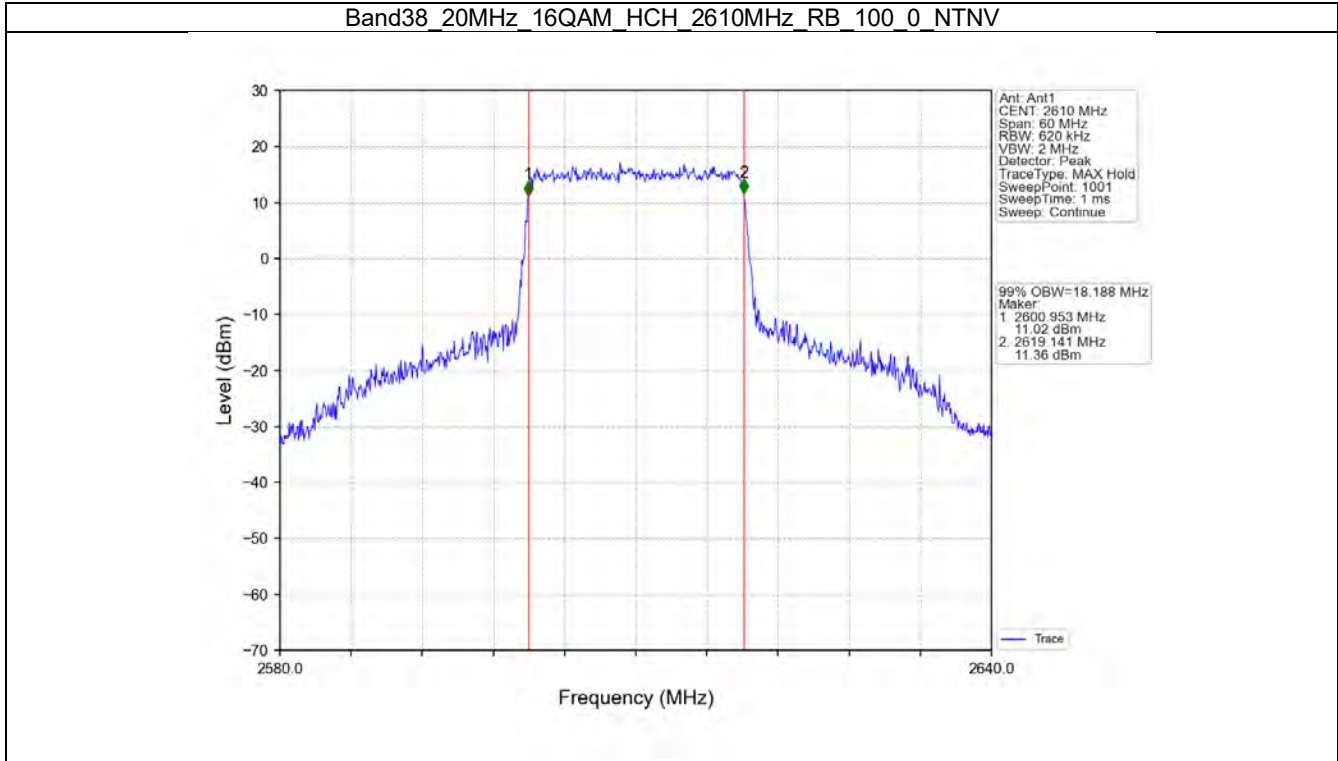


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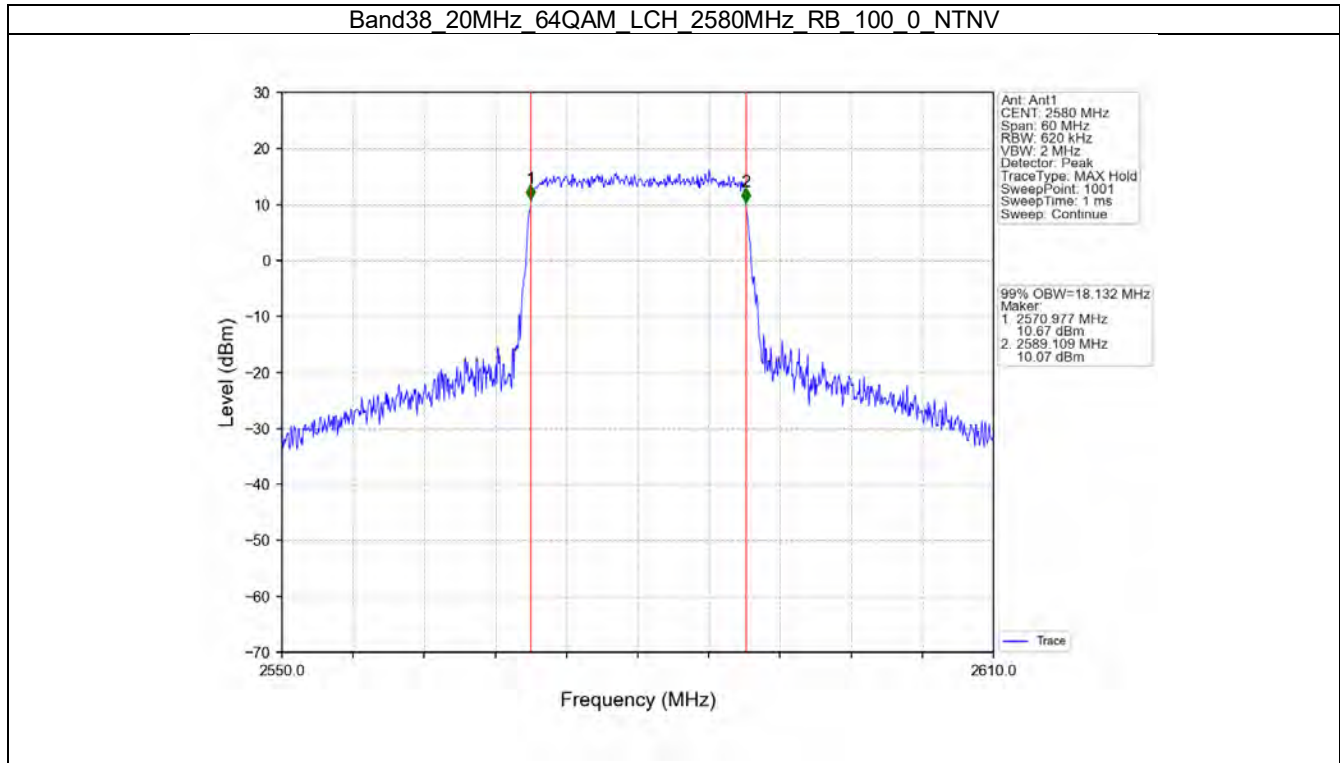


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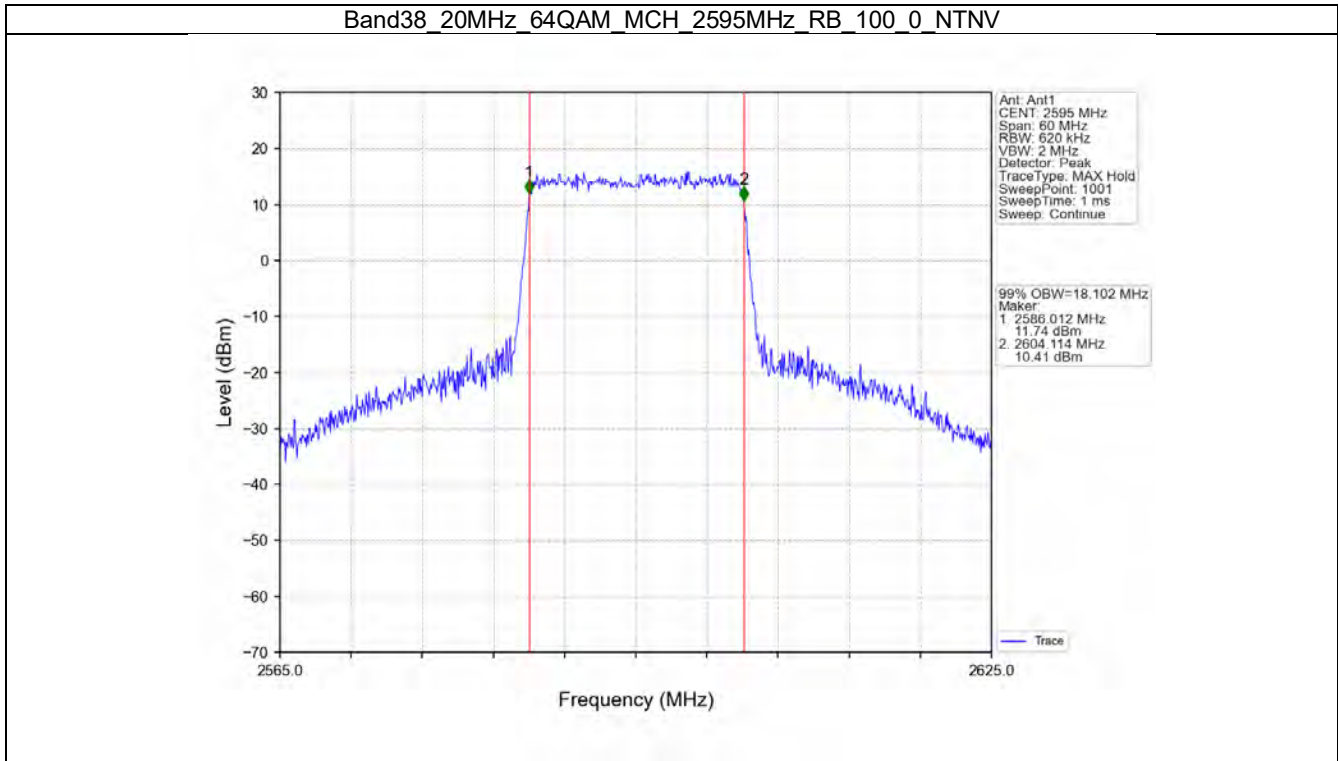


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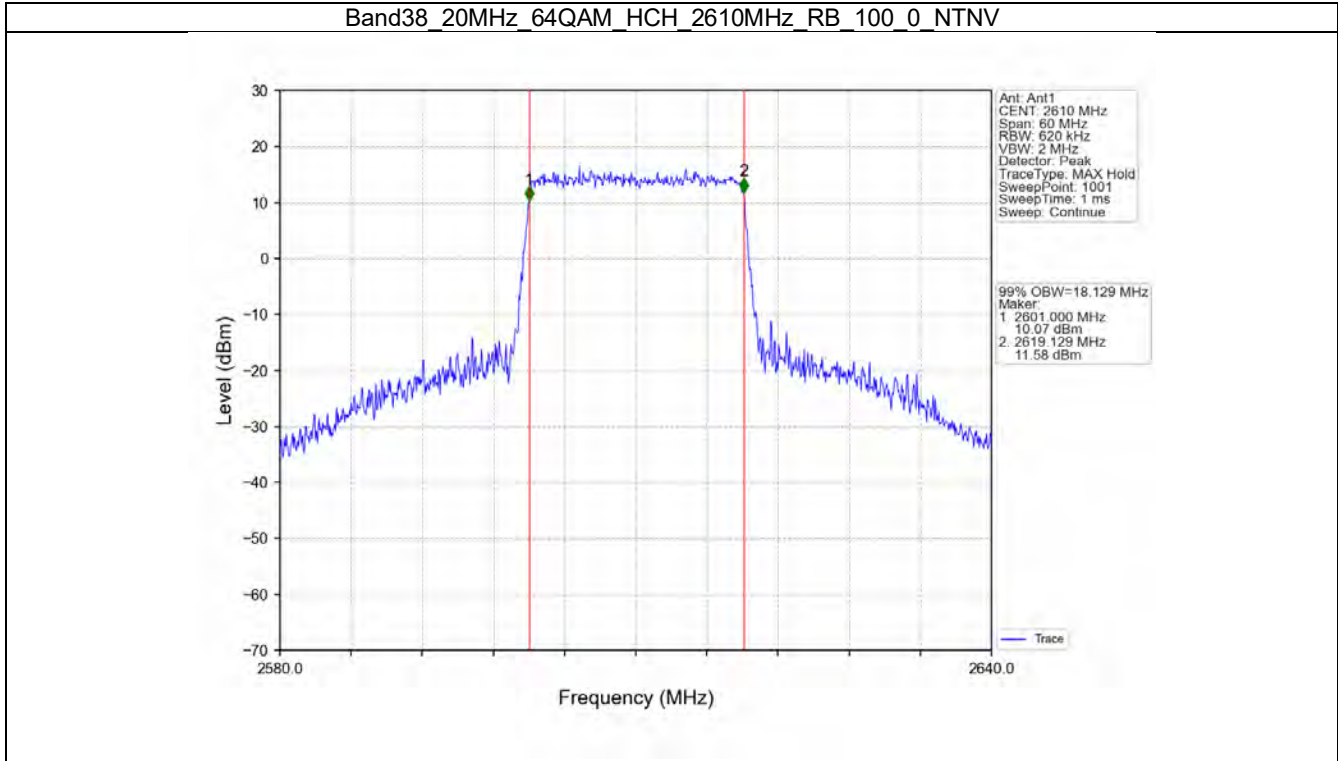


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3.2 Band38_XDB

3.2.1 Test Result

Band: 38 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	5.265	/	Pass
		2595	25	0	5.229	/	Pass
		2617.5	25	0	5.359	/	Pass
	16QAM	2572.5	25	0	5.251	/	Pass
		2595	25	0	5.229	/	Pass
		2617.5	25	0	5.273	/	Pass
	64QAM	2572.5	25	0	5.197	/	Pass
		2595	25	0	5.261	/	Pass
		2617.5	25	0	5.325	/	Pass
10	QPSK	2575	50	0	10.372	/	Pass
		2595	50	0	10.157	/	Pass
		2615	50	0	10.156	/	Pass
	16QAM	2575	50	0	10.234	/	Pass
		2595	50	0	10.102	/	Pass
		2615	50	0	10.134	/	Pass
	64QAM	2575	50	0	10.189	/	Pass
		2595	50	0	10.082	/	Pass
		2615	50	0	10.154	/	Pass
15	QPSK	2577.5	75	0	15.117	/	Pass
		2595	75	0	15.050	/	Pass
		2612.5	75	0	15.148	/	Pass
	16QAM	2577.5	75	0	15.075	/	Pass
		2595	75	0	15.086	/	Pass
		2612.5	75	0	15.202	/	Pass
	64QAM	2577.5	75	0	15.133	/	Pass
		2595	75	0	15.131	/	Pass
		2612.5	75	0	15.075	/	Pass
20	QPSK	2580	100	0	20.107	/	Pass
		2595	100	0	20.253	/	Pass
		2610	100	0	20.075	/	Pass
	16QAM	2580	100	0	20.032	/	Pass
		2595	100	0	21.063	/	Pass
		2610	100	0	19.958	/	Pass
	64QAM	2580	100	0	20.175	/	Pass
		2595	100	0	19.987	/	Pass
		2610	100	0	19.857	/	Pass



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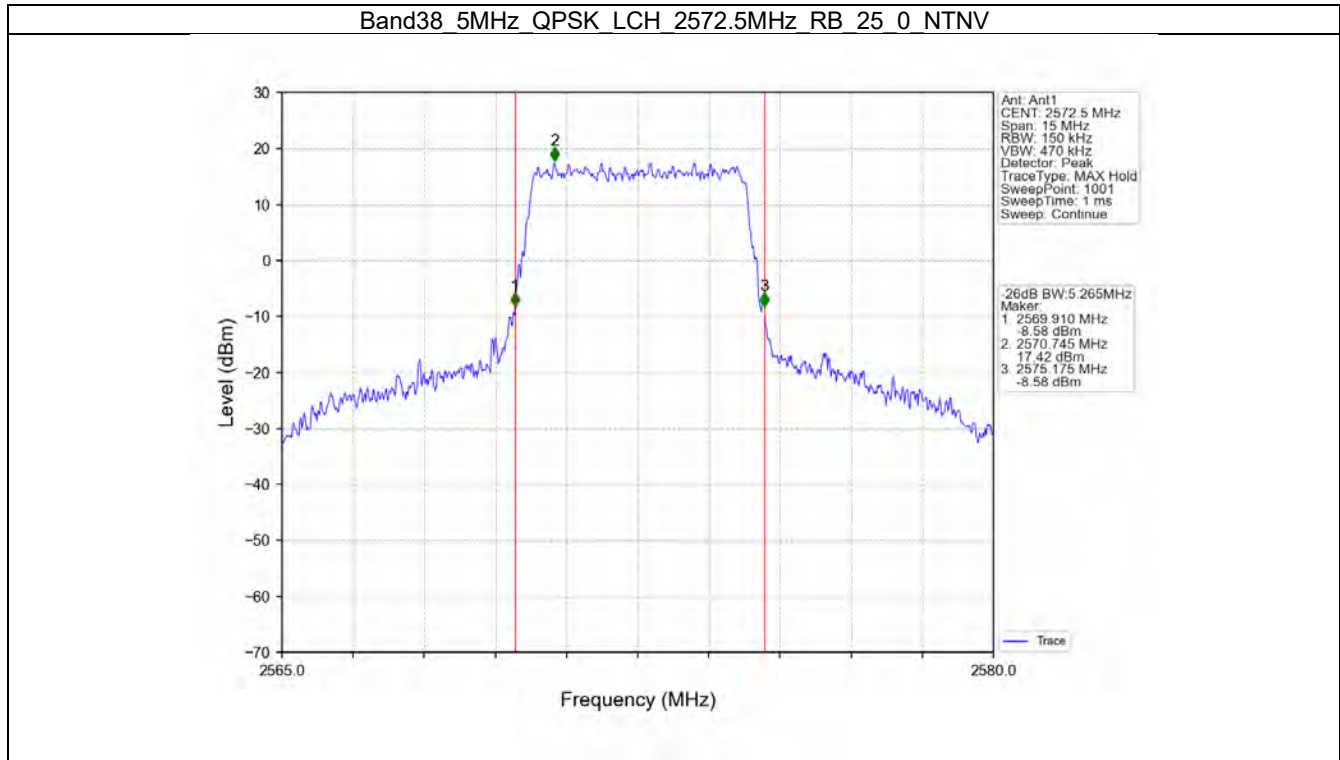
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3.2.2 Test Graph



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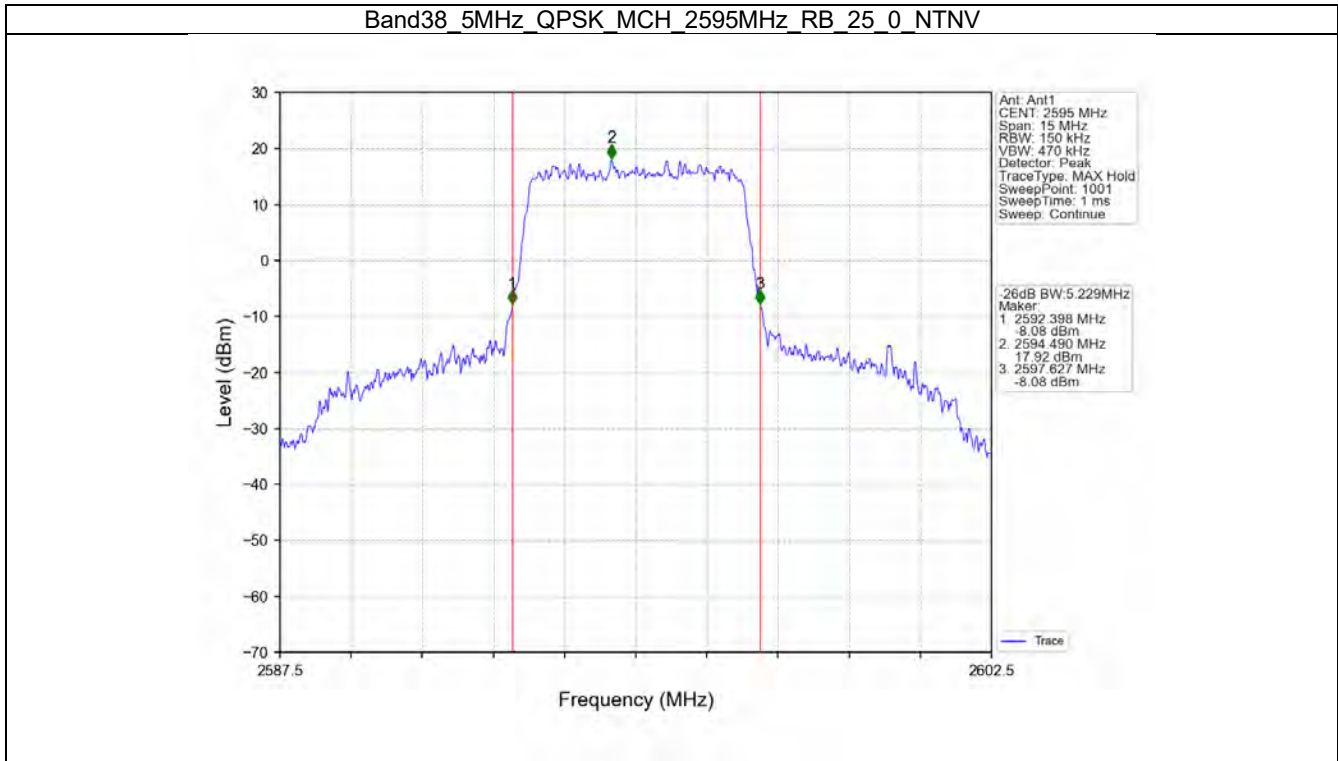


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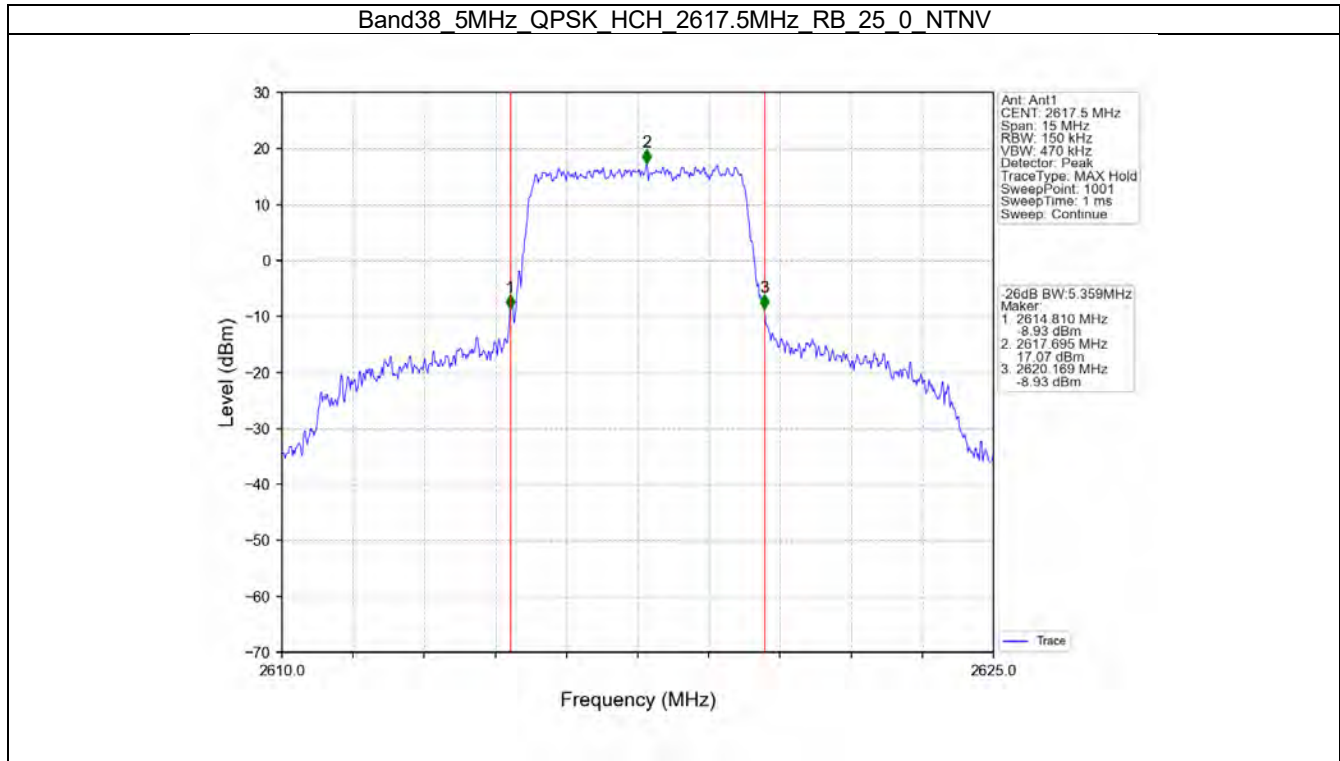


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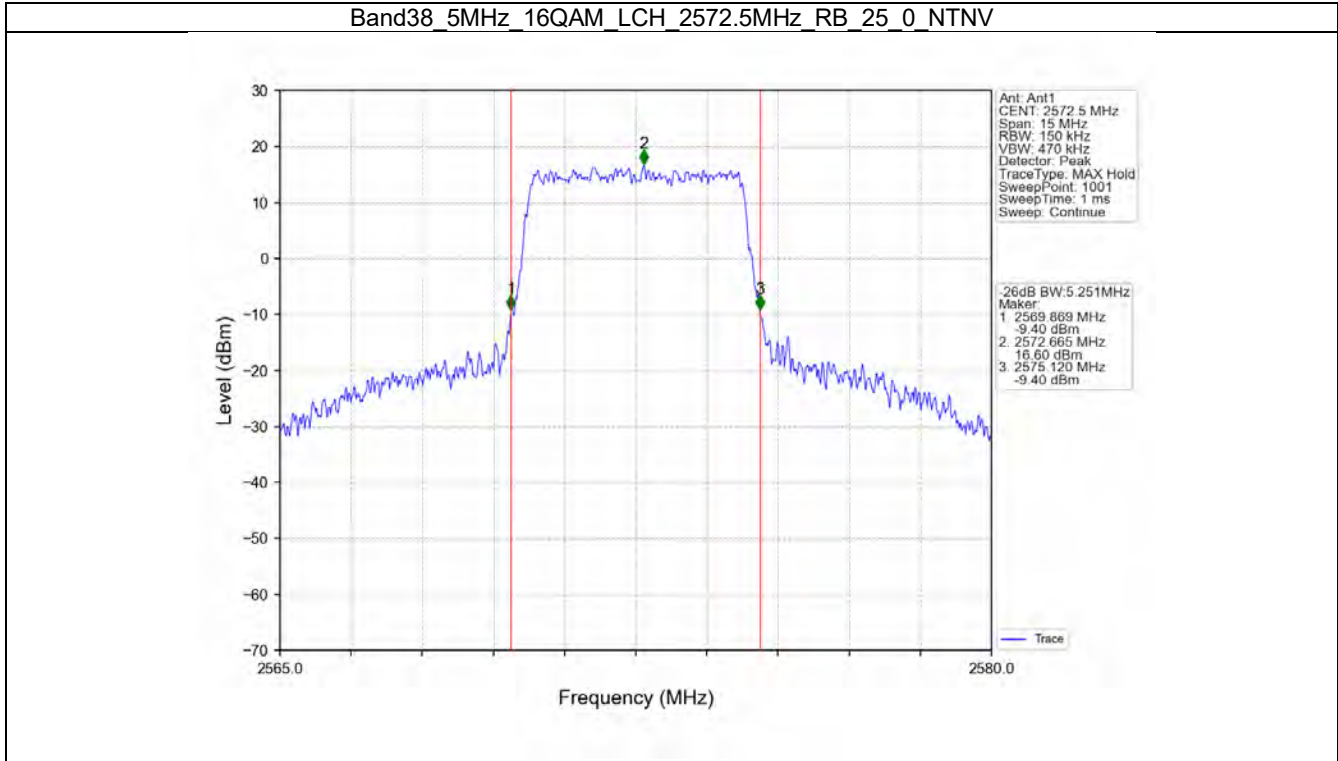


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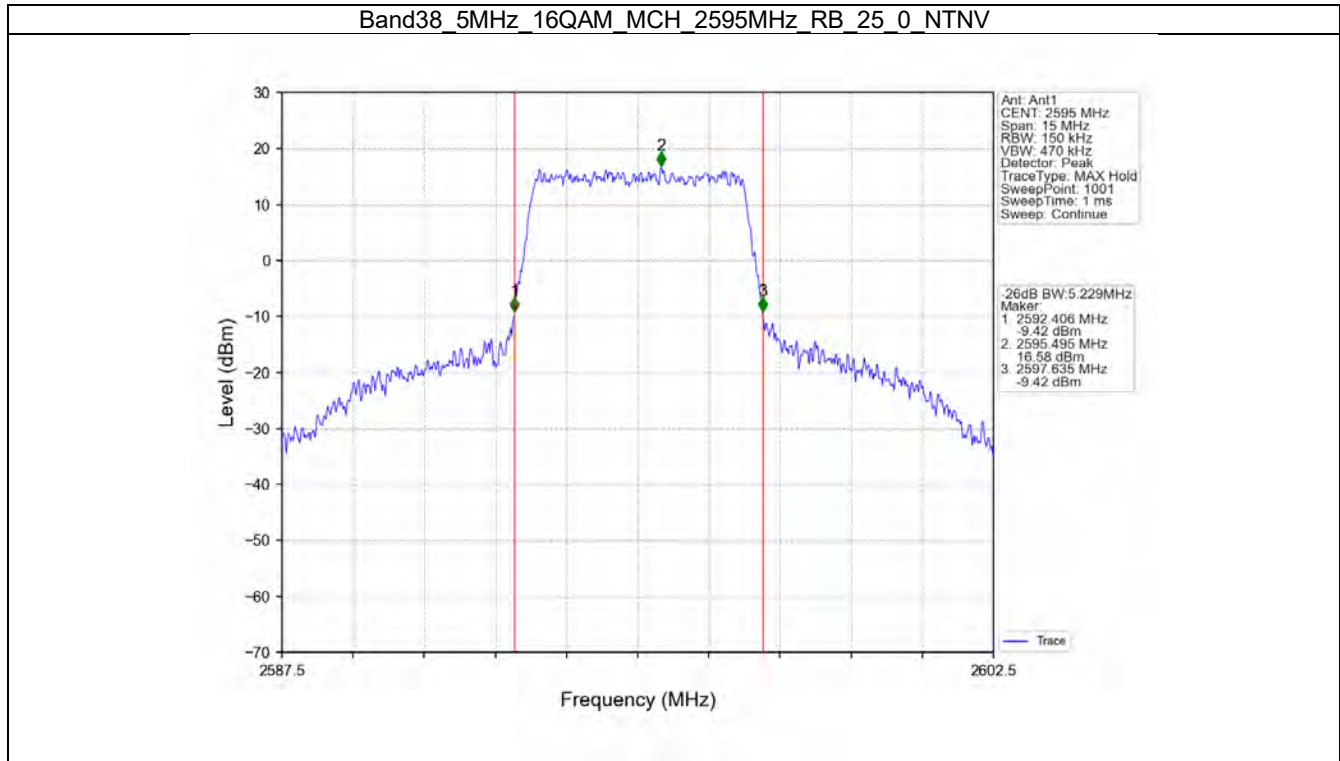


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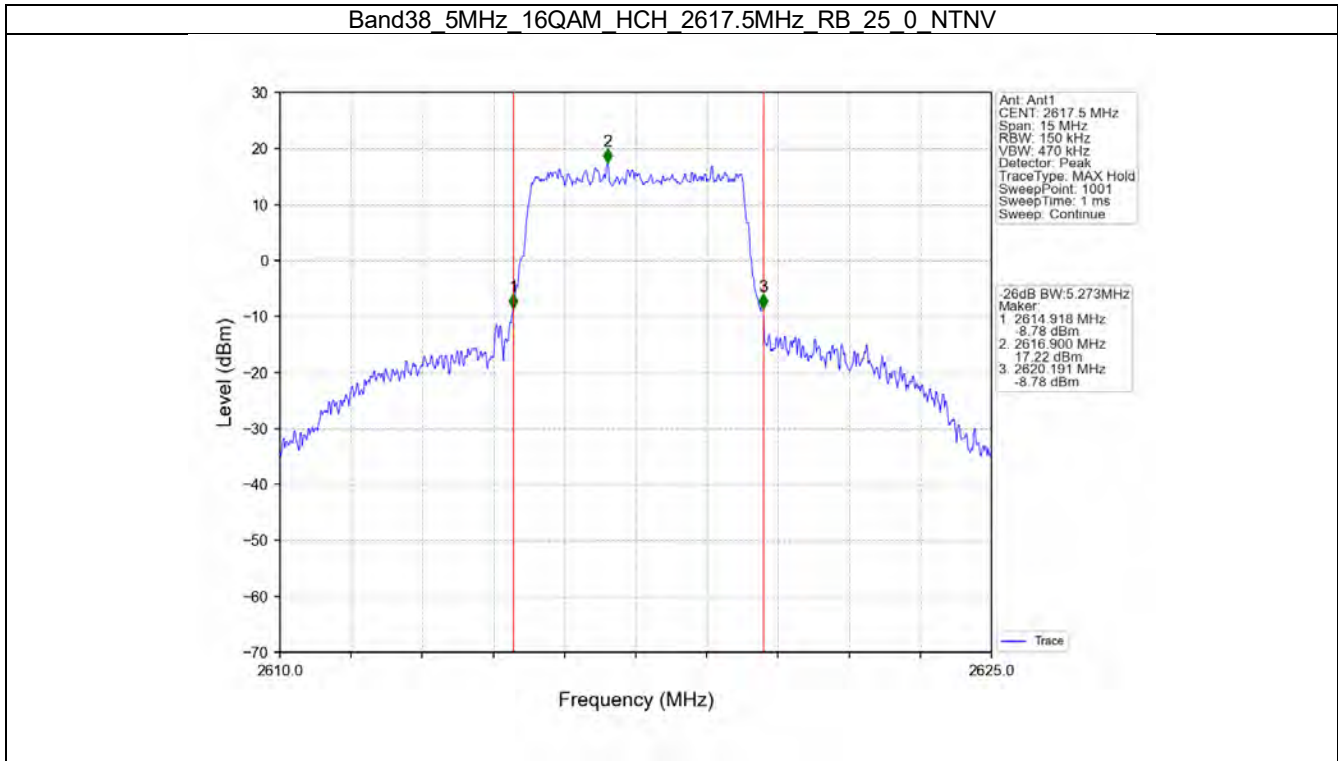


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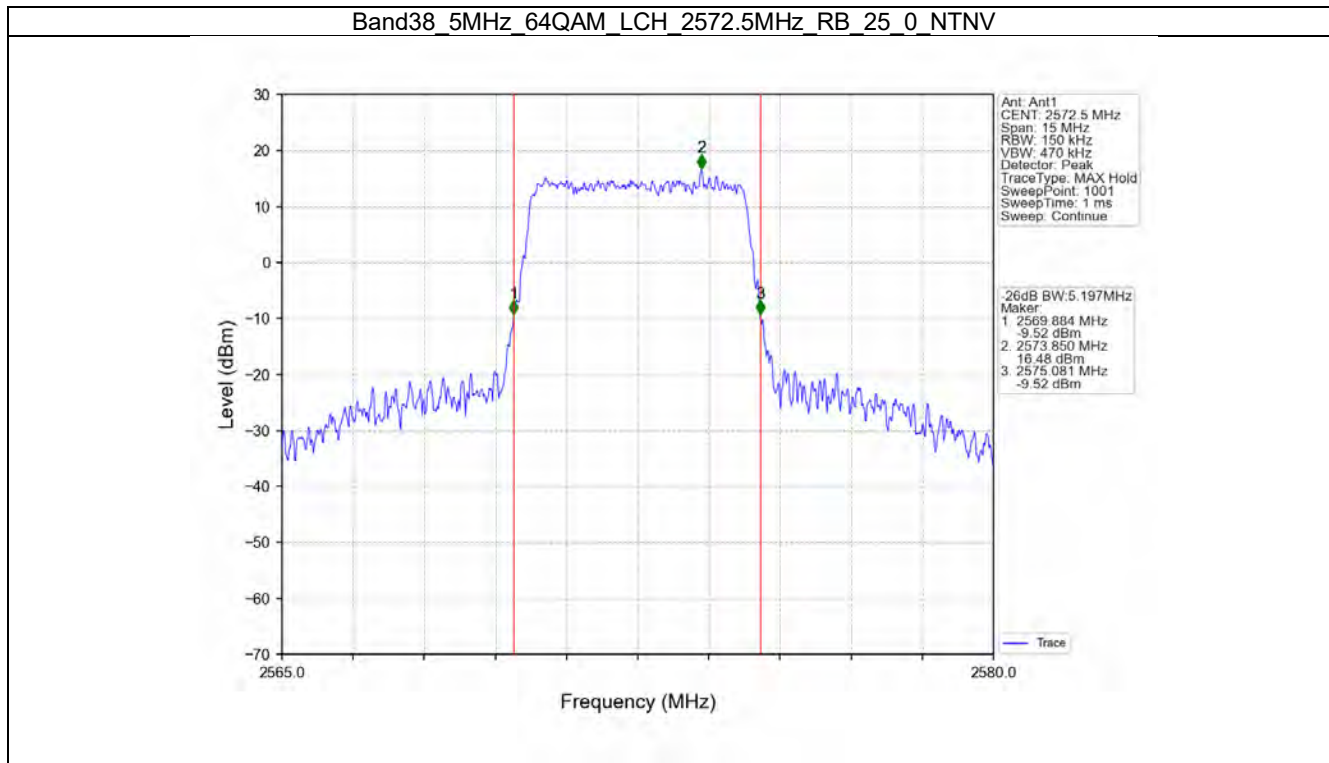
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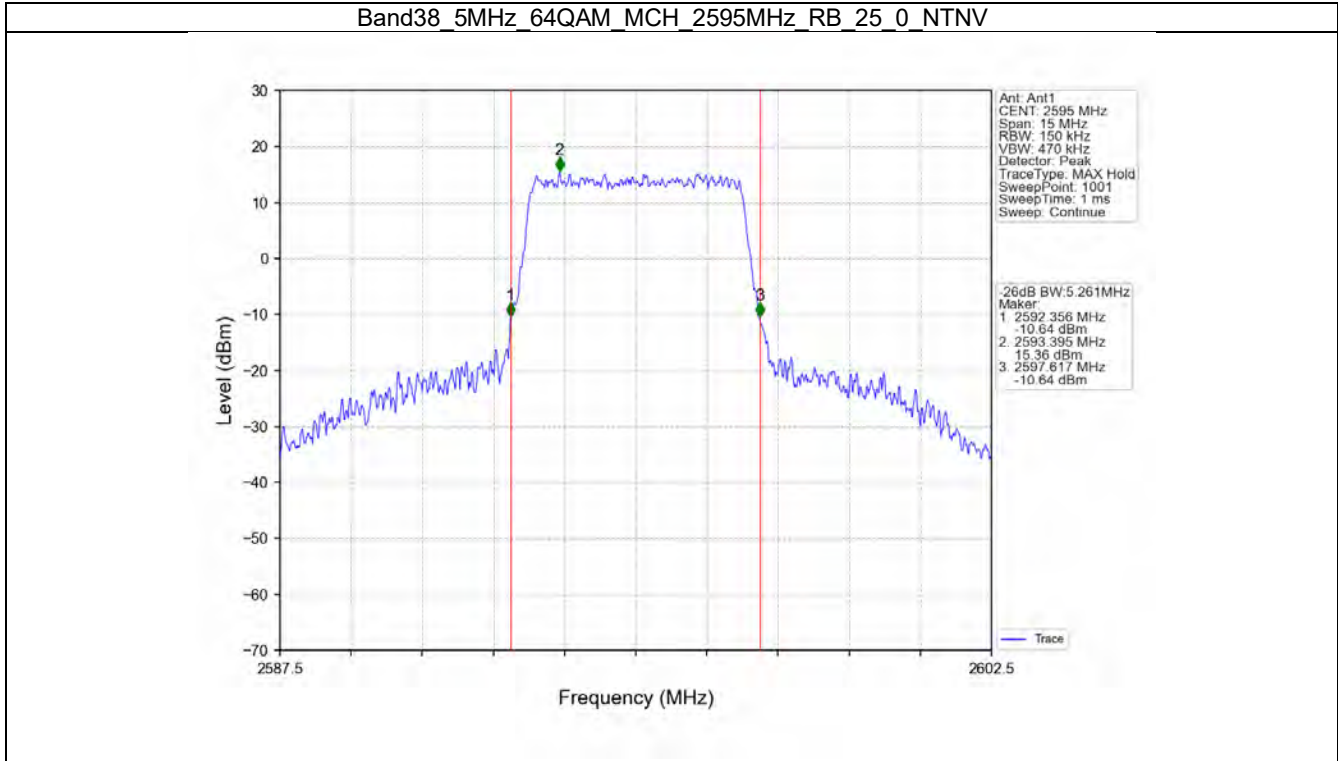


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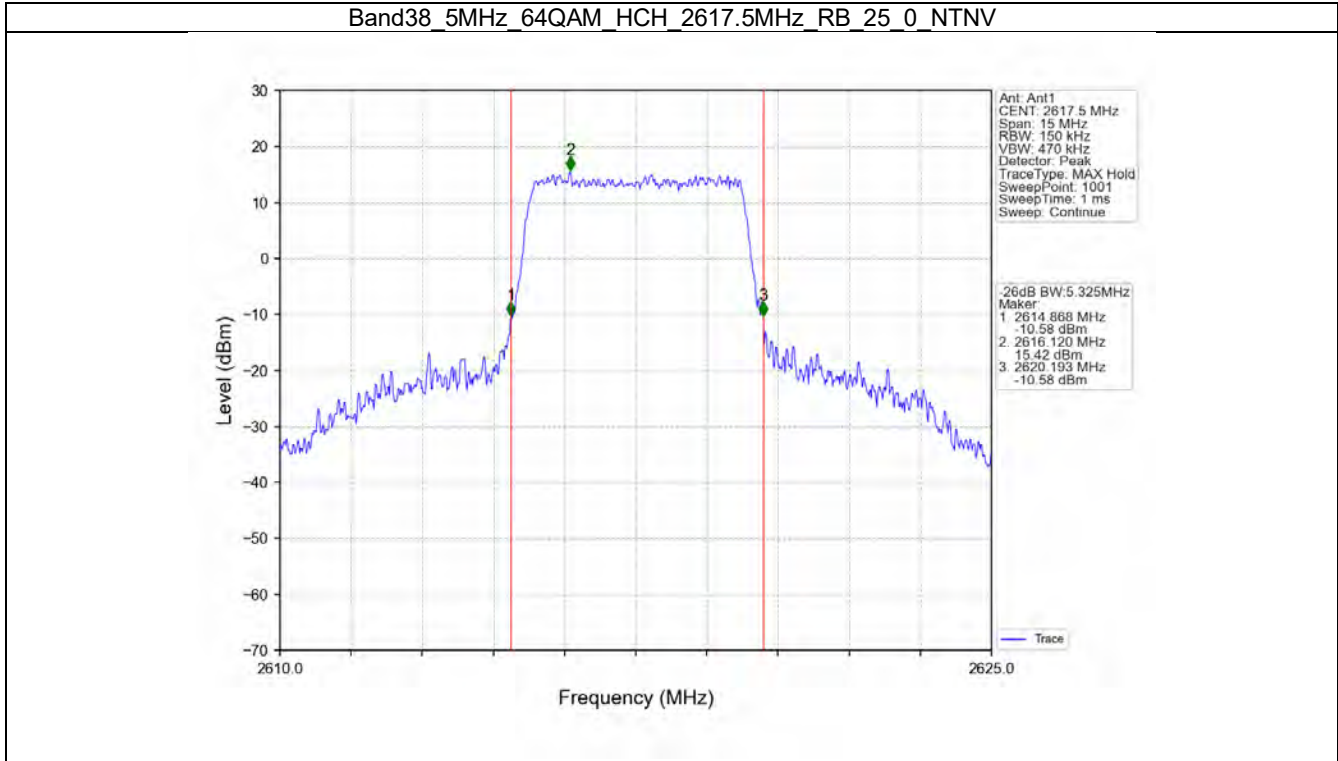


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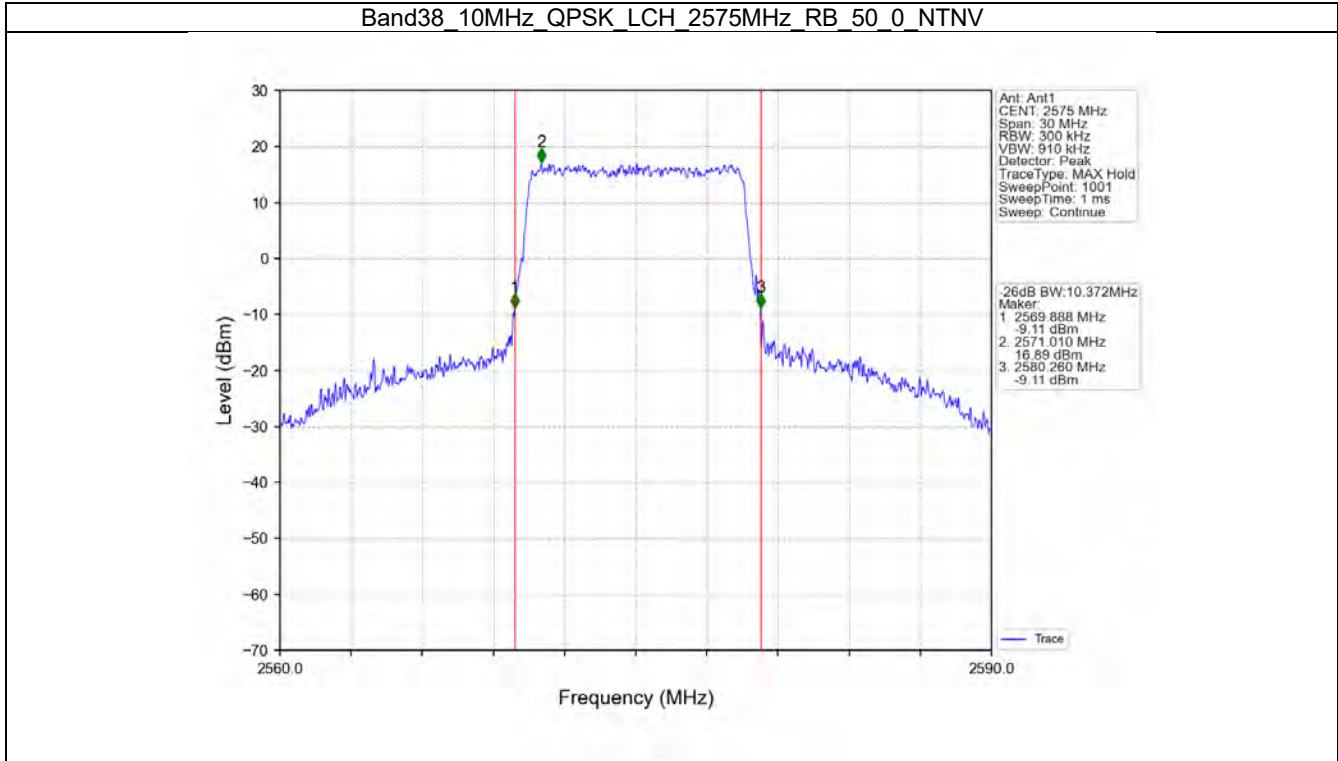


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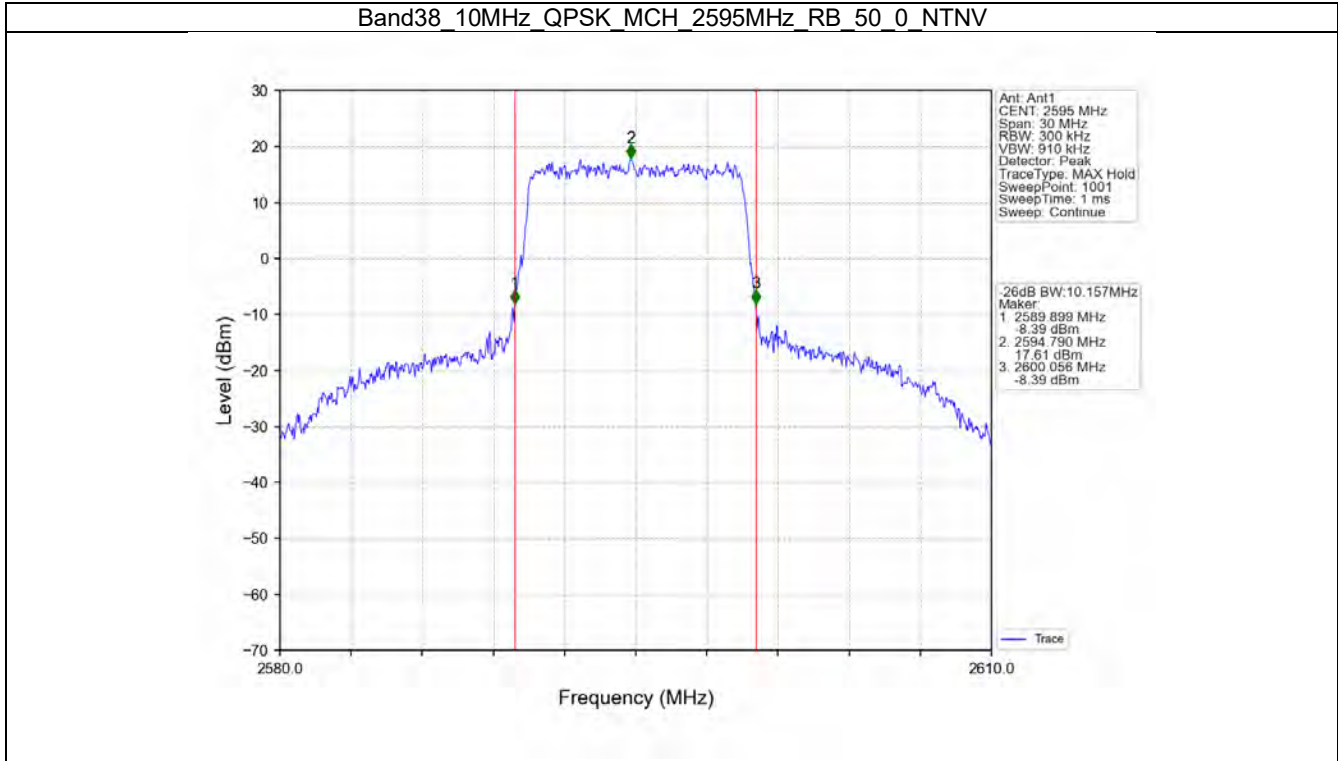


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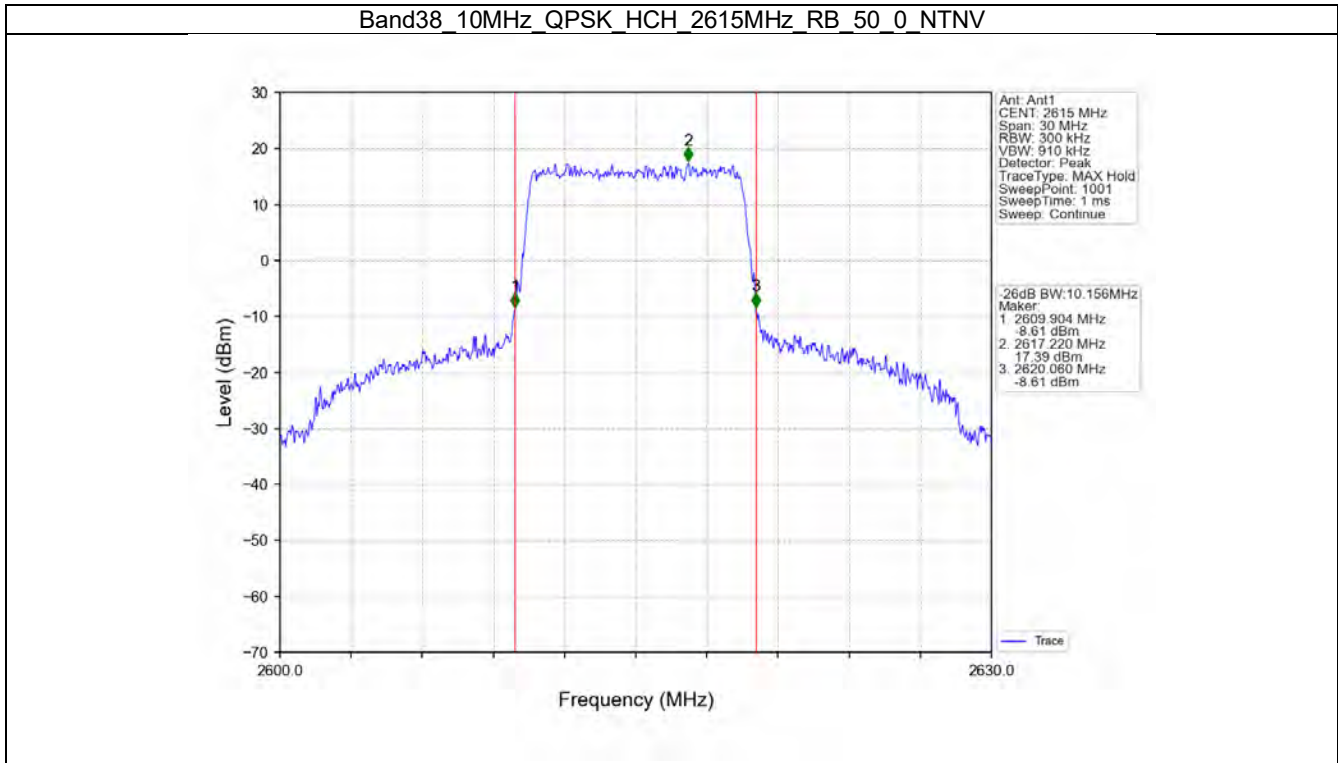


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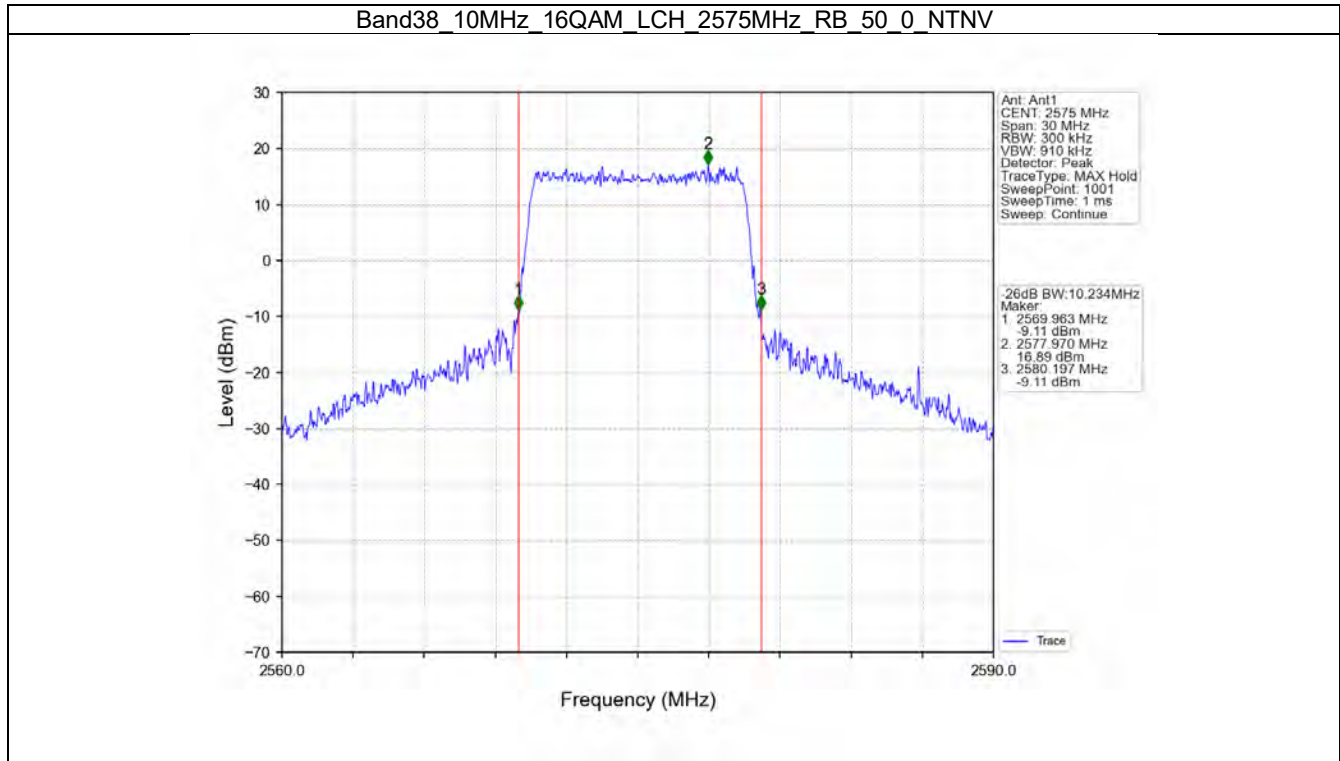


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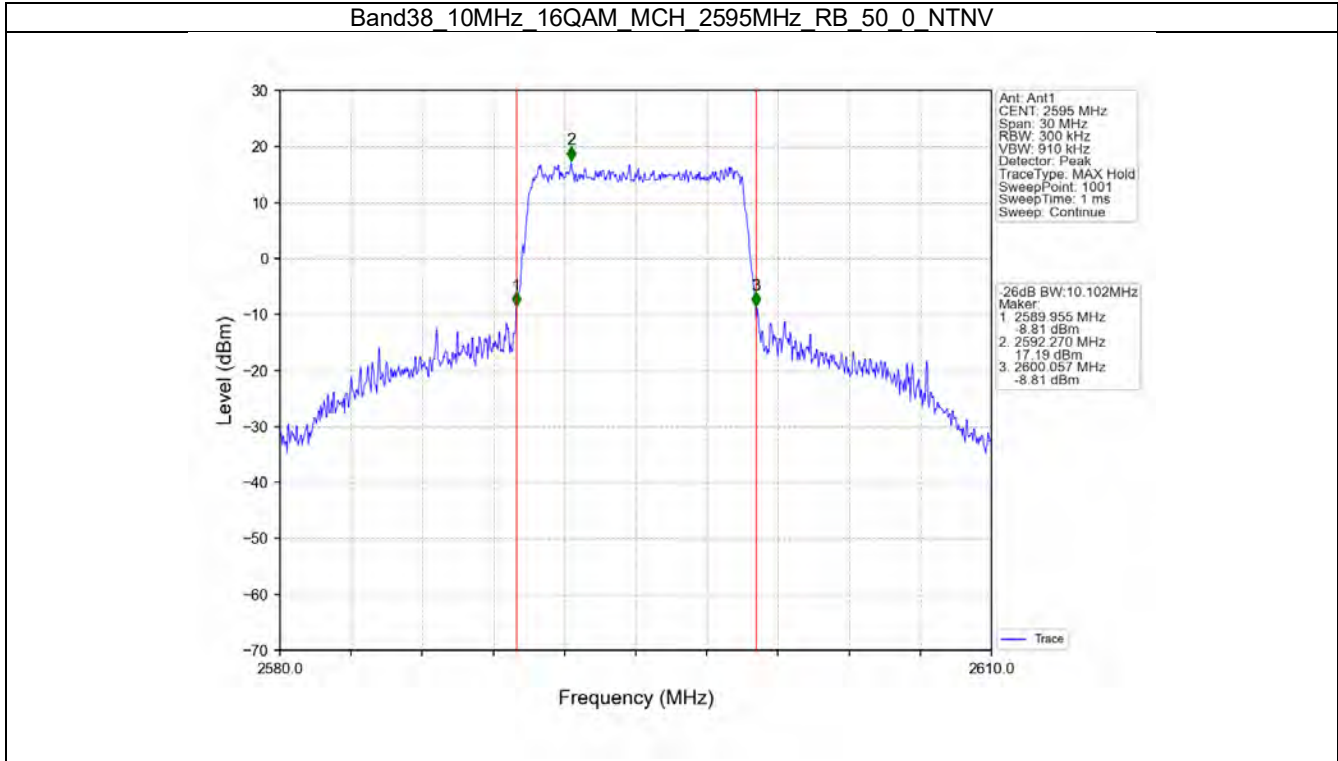


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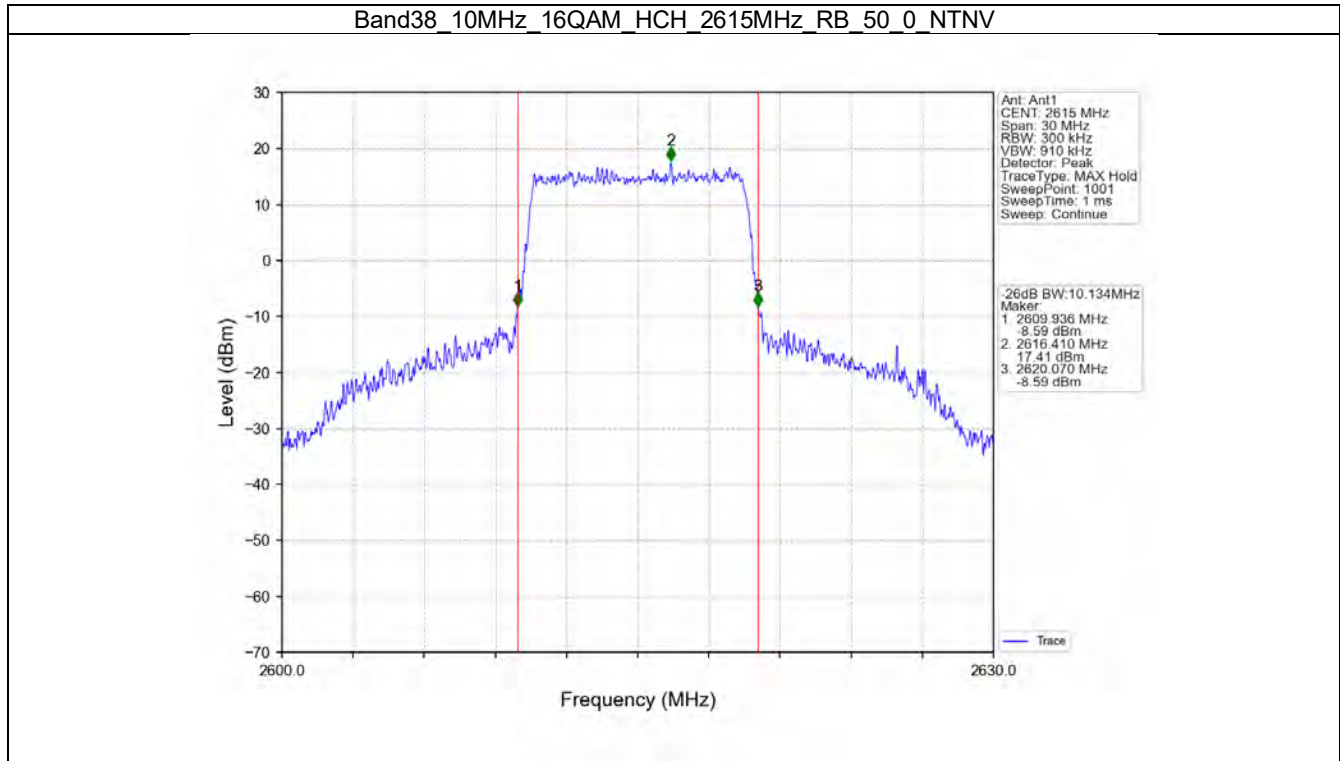


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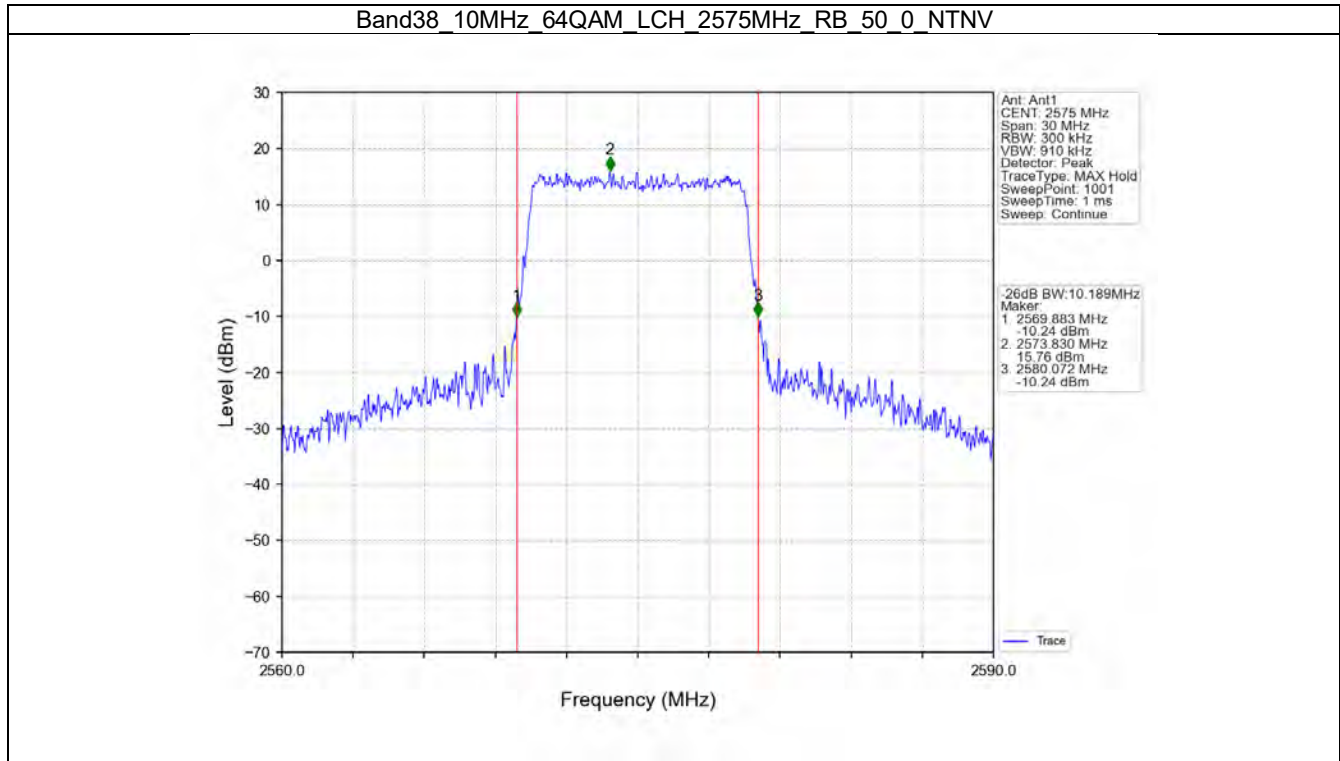


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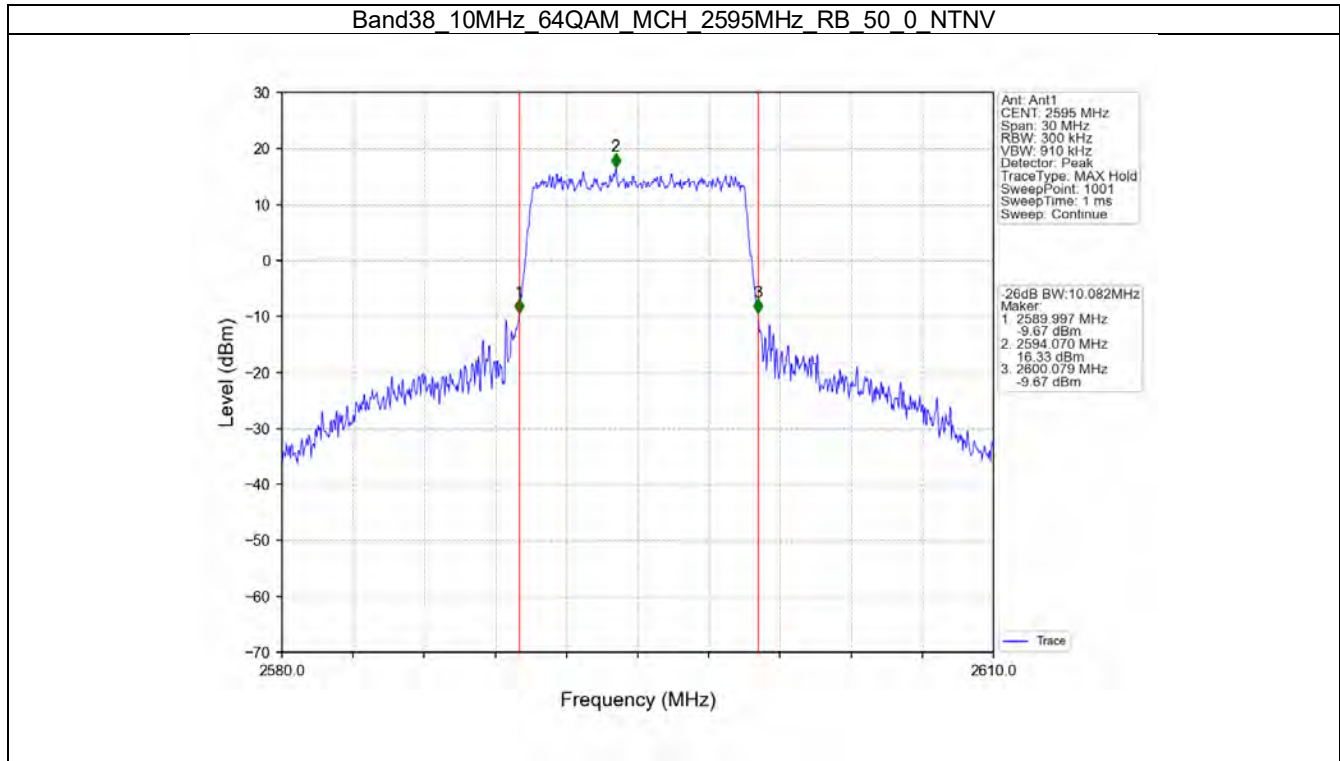


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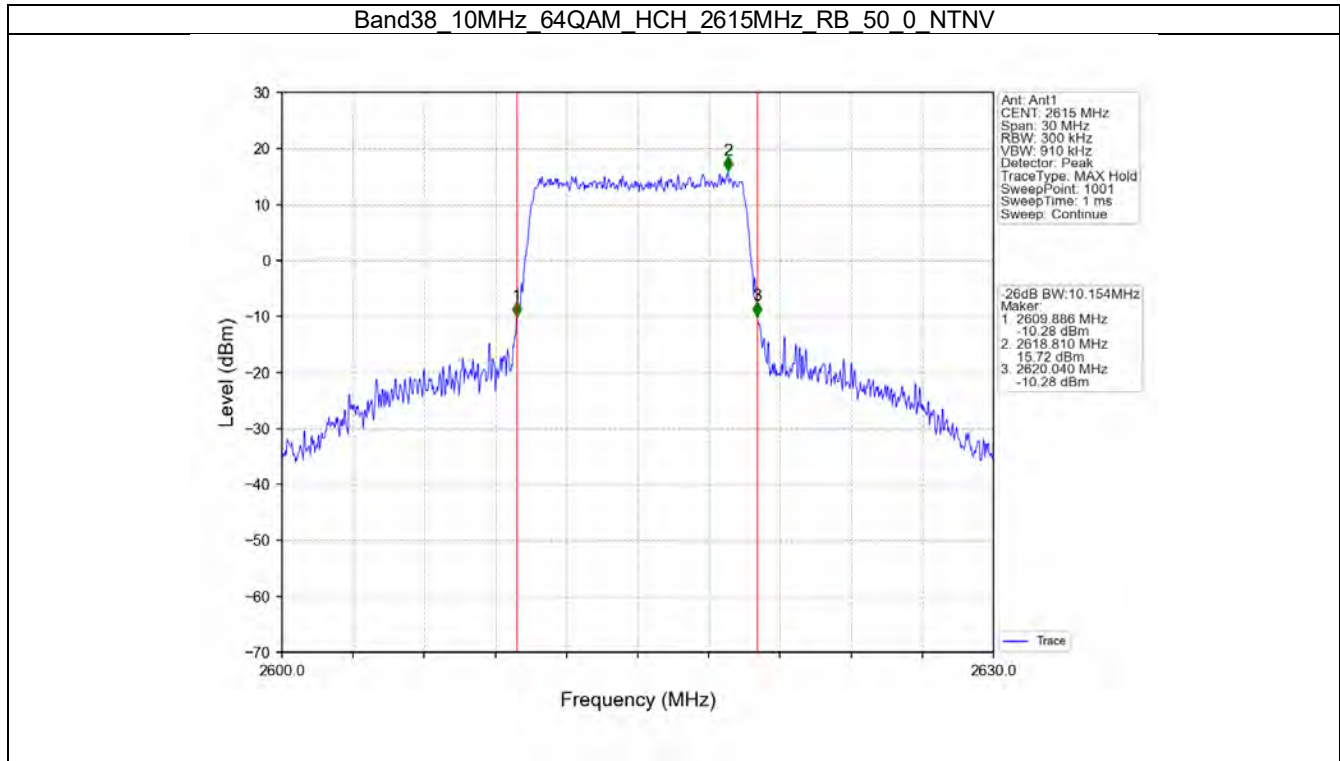


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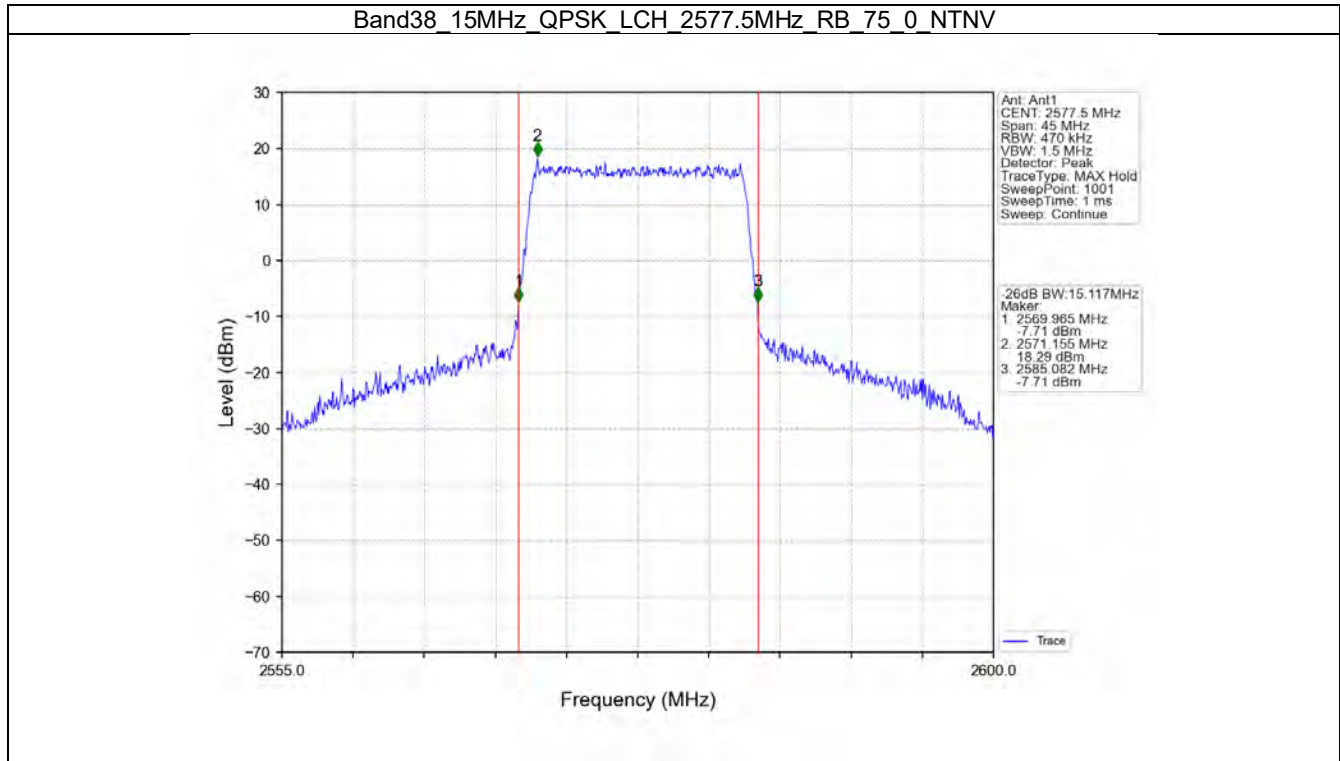


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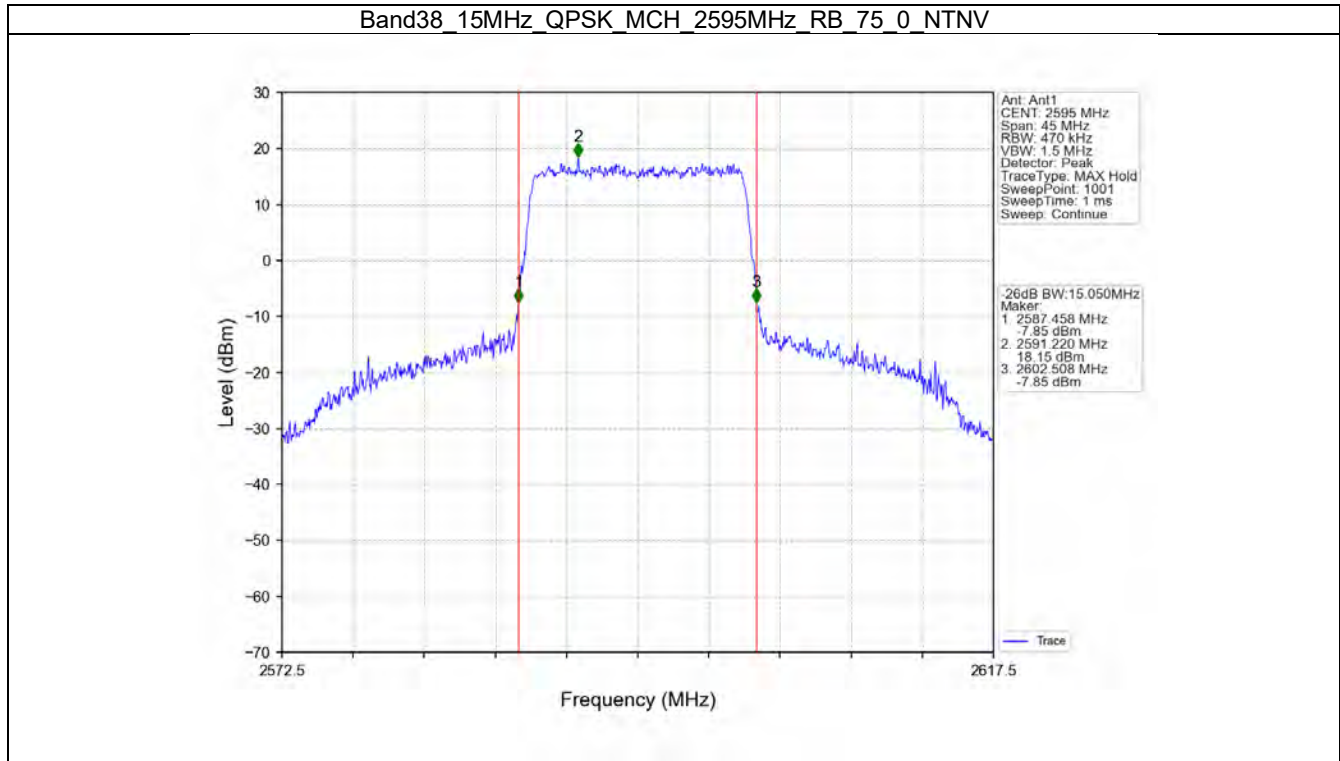


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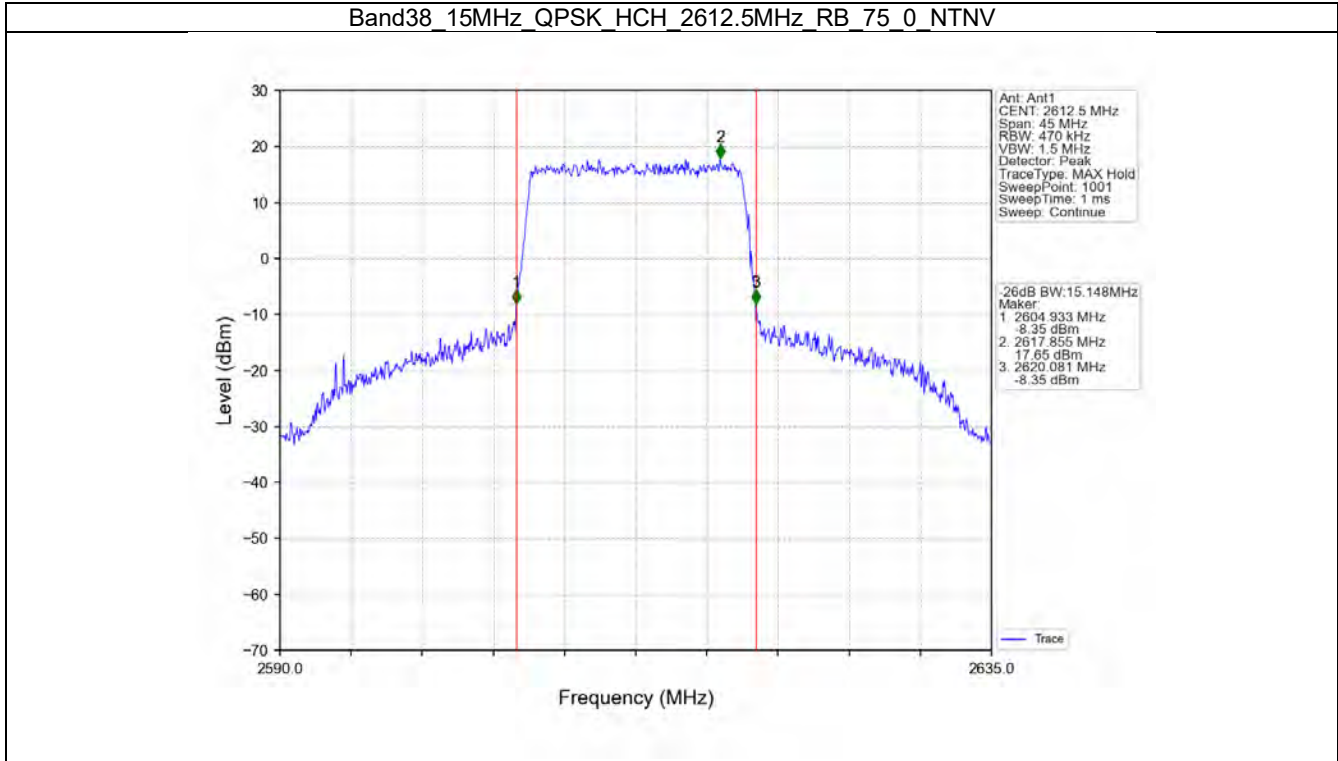


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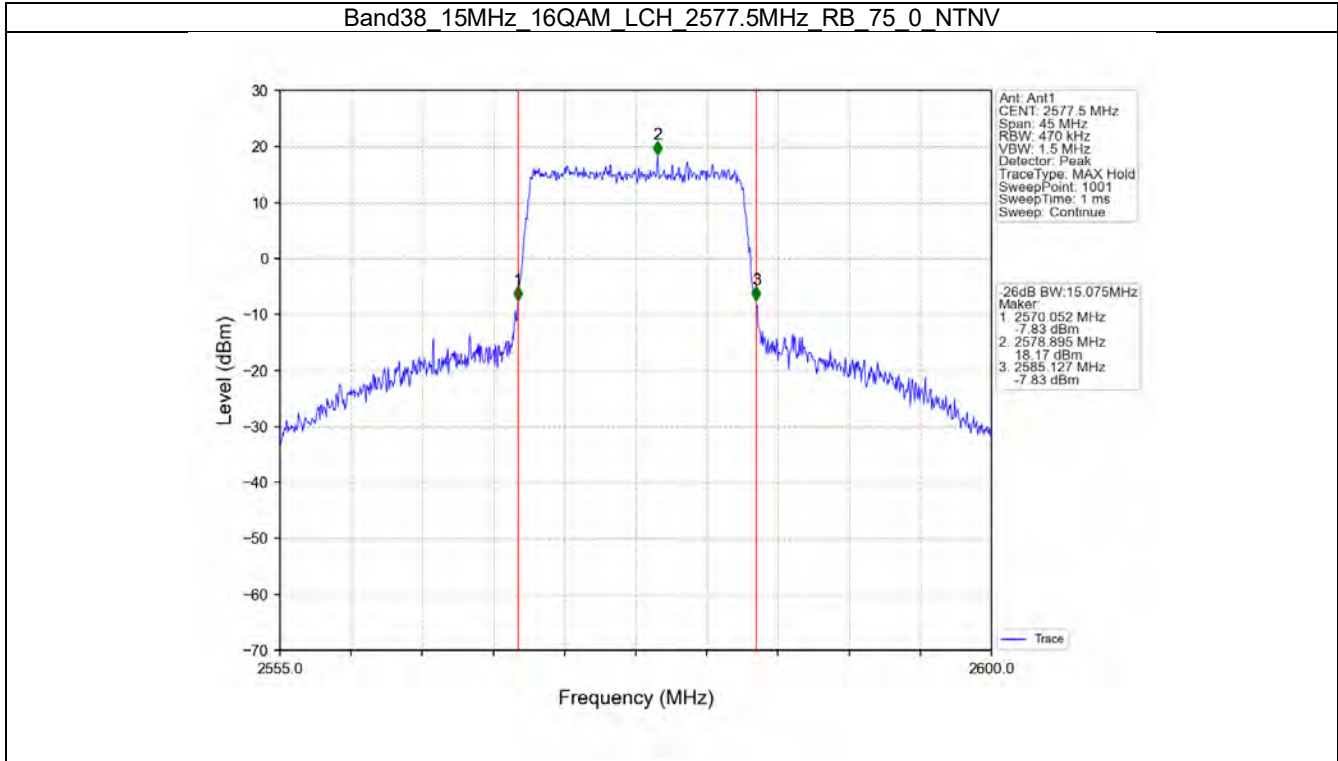


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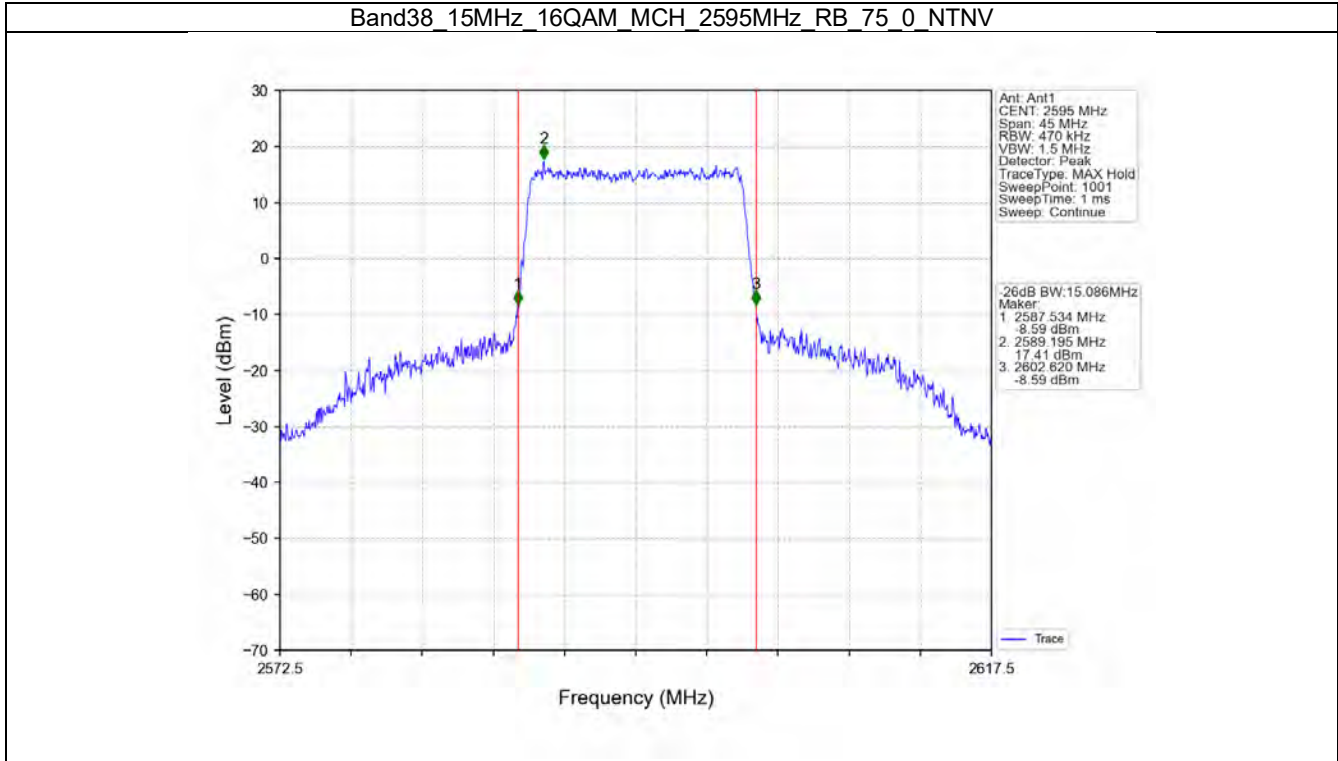


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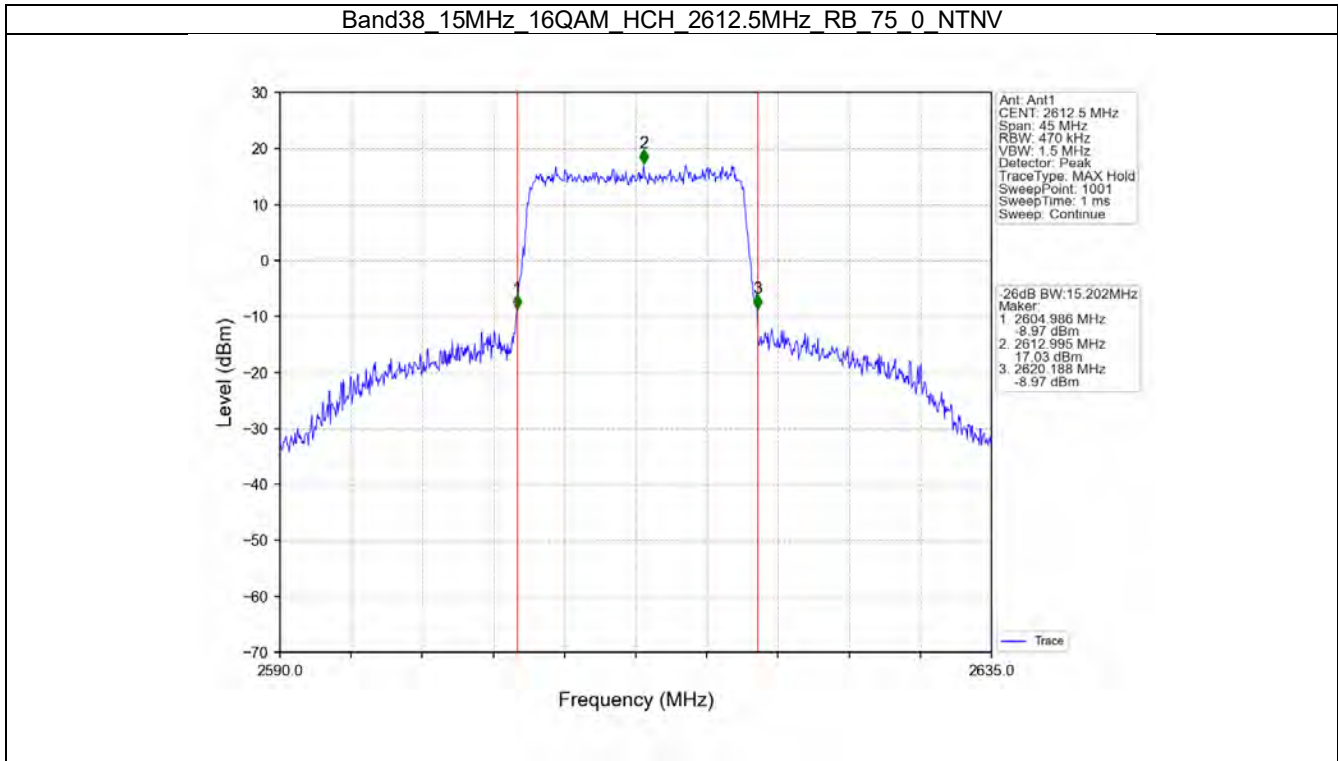


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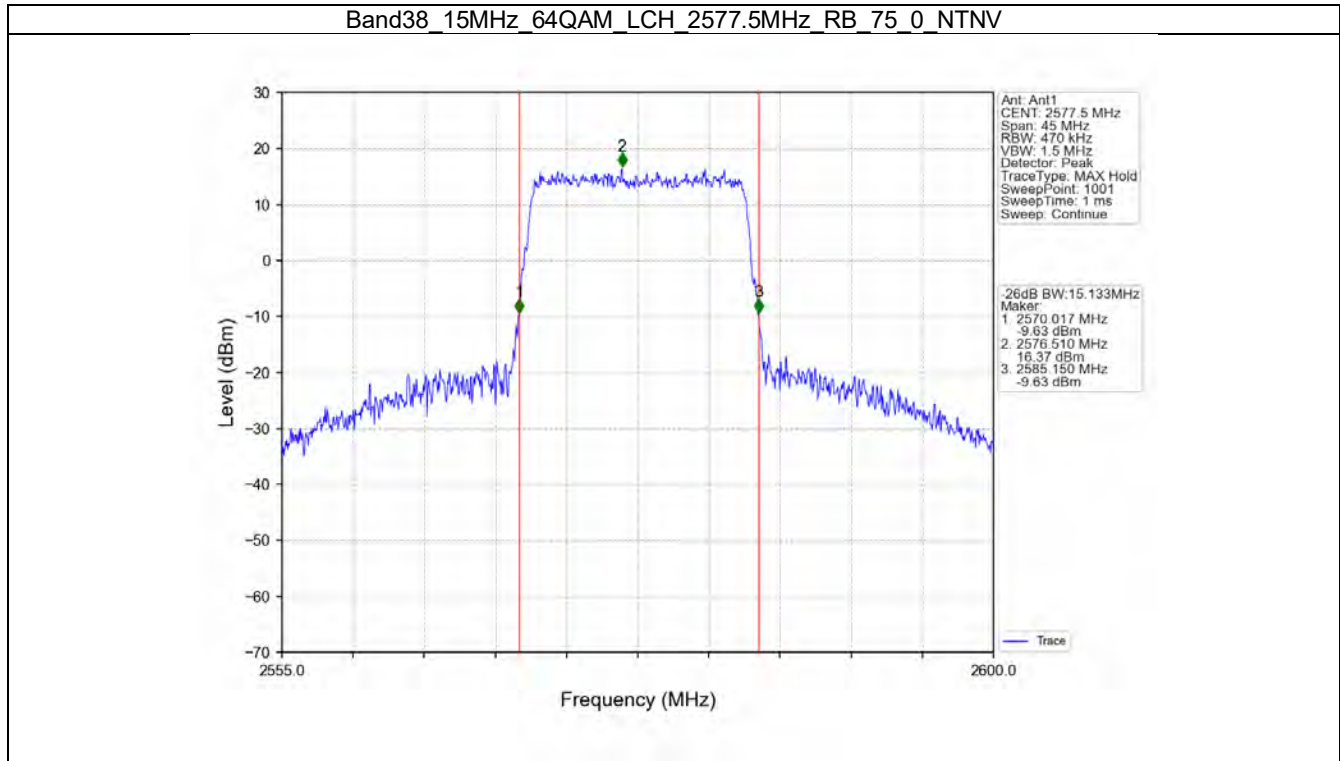


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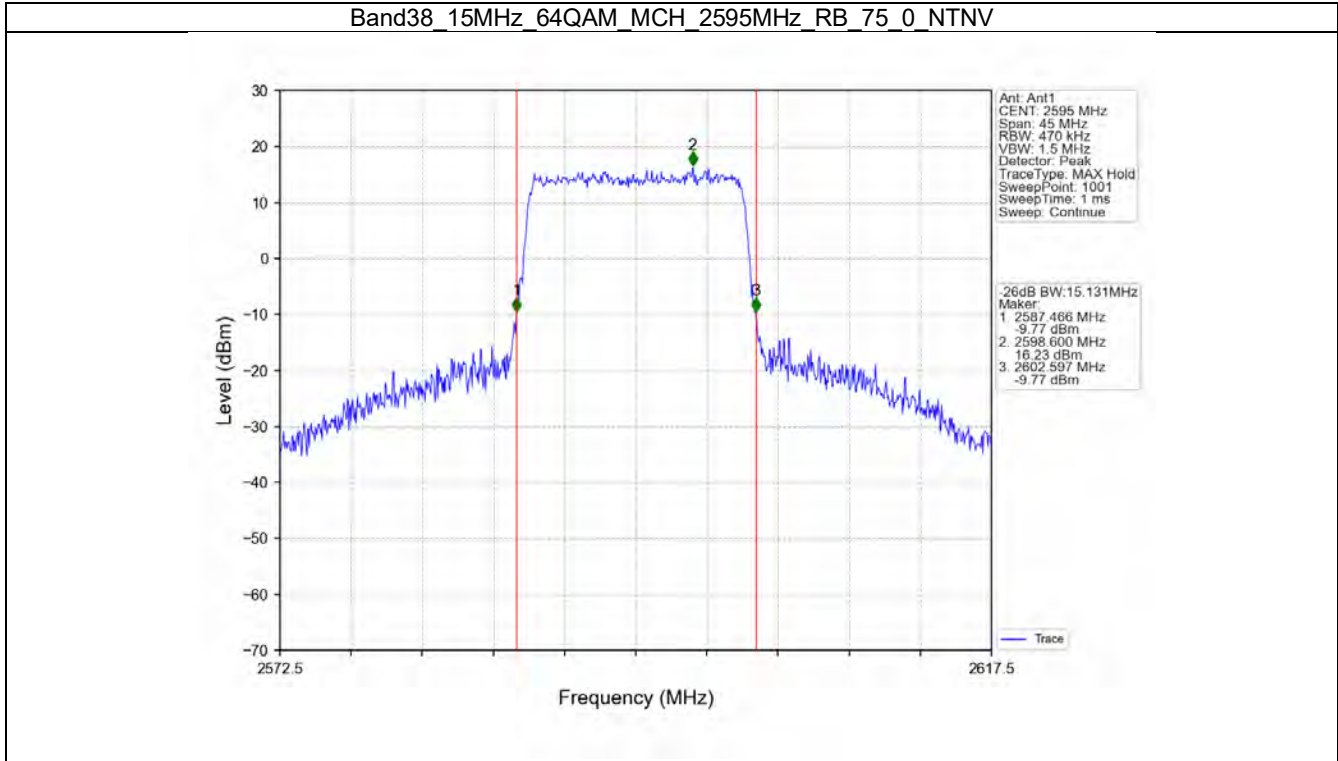


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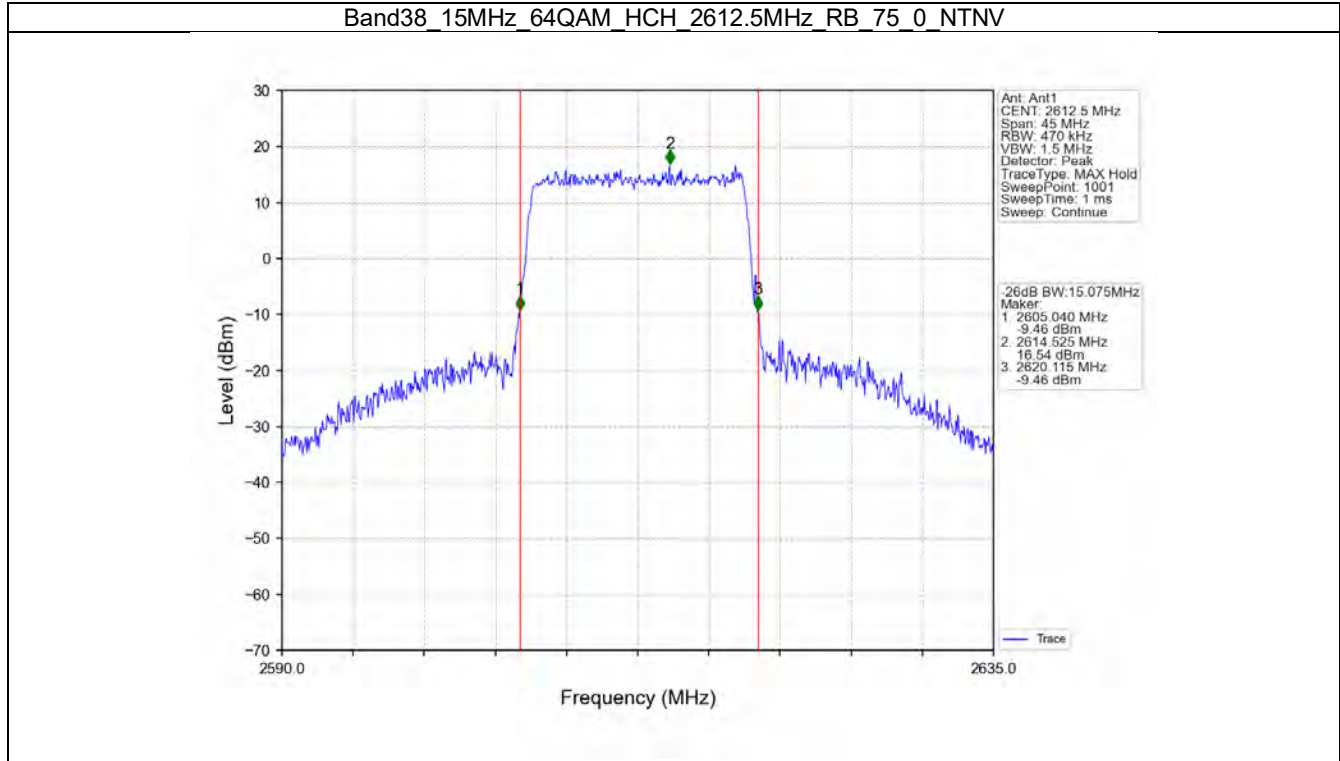


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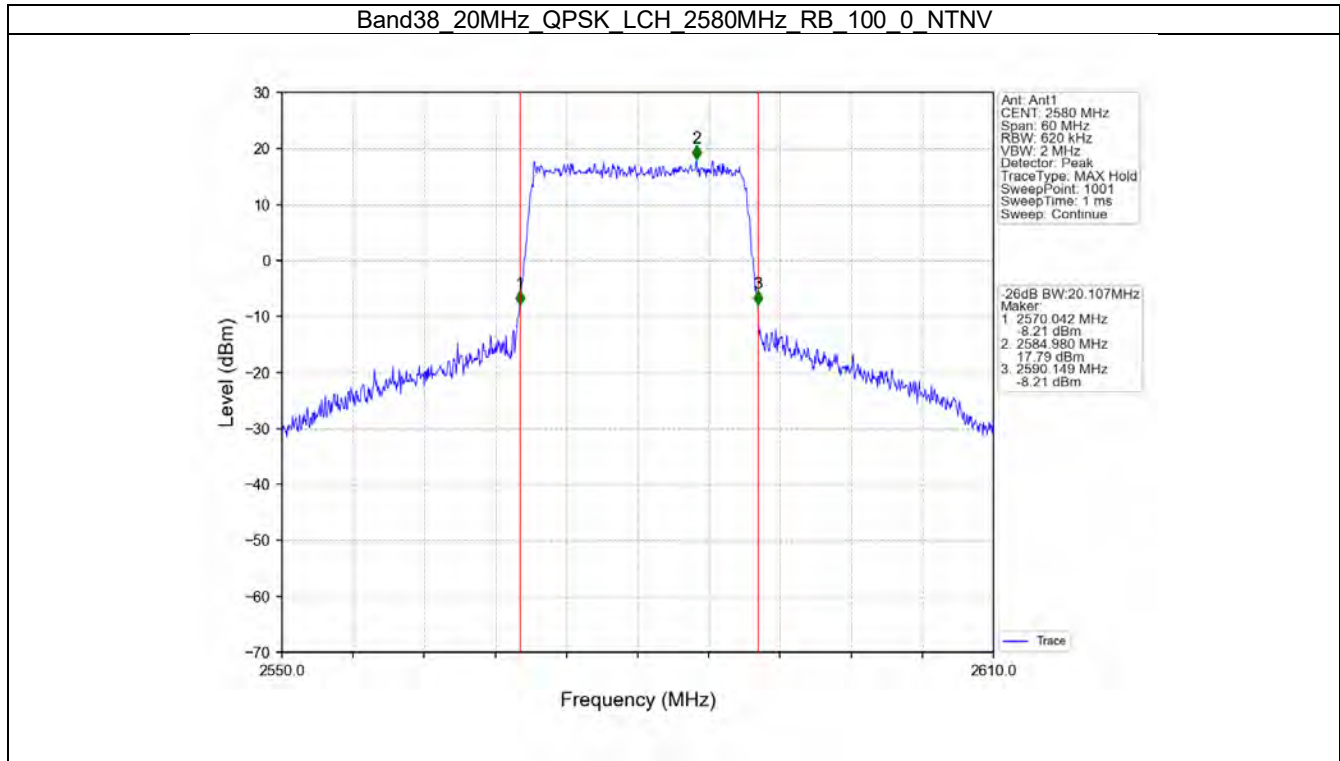


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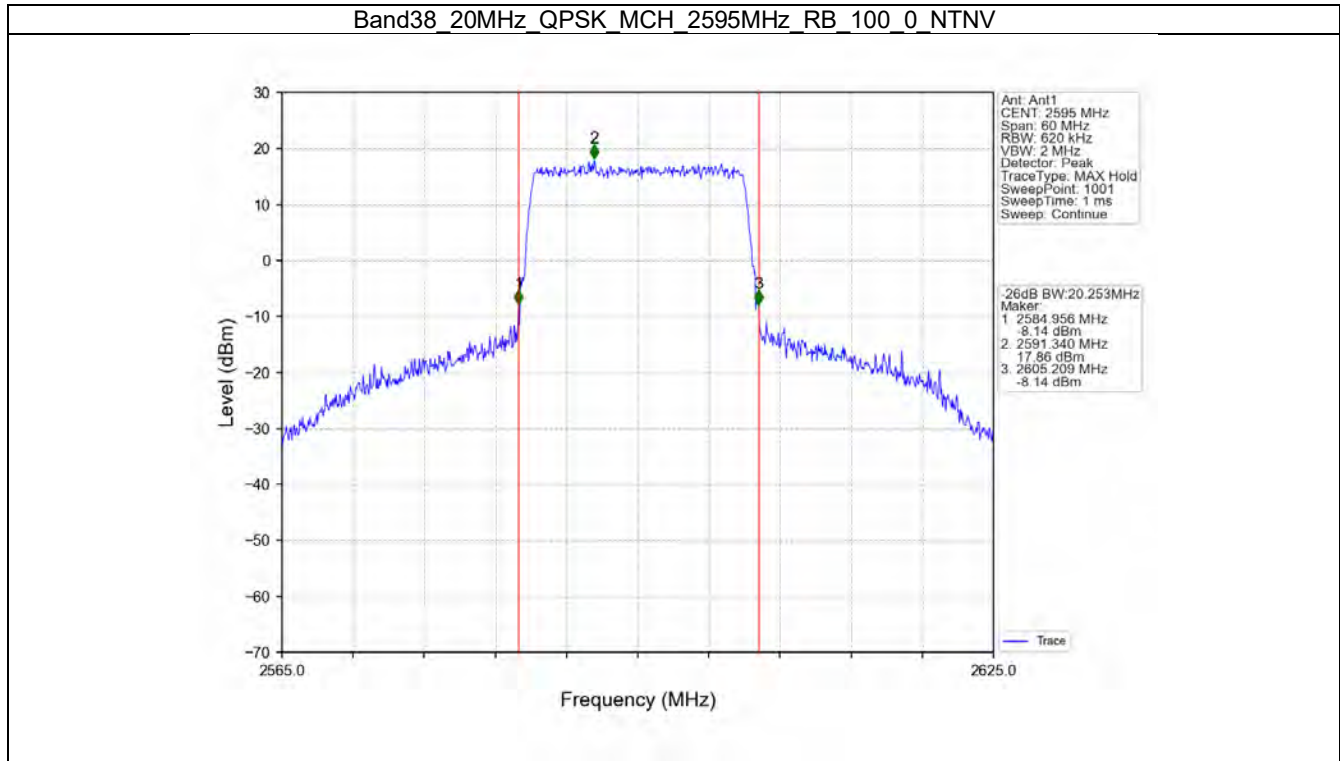


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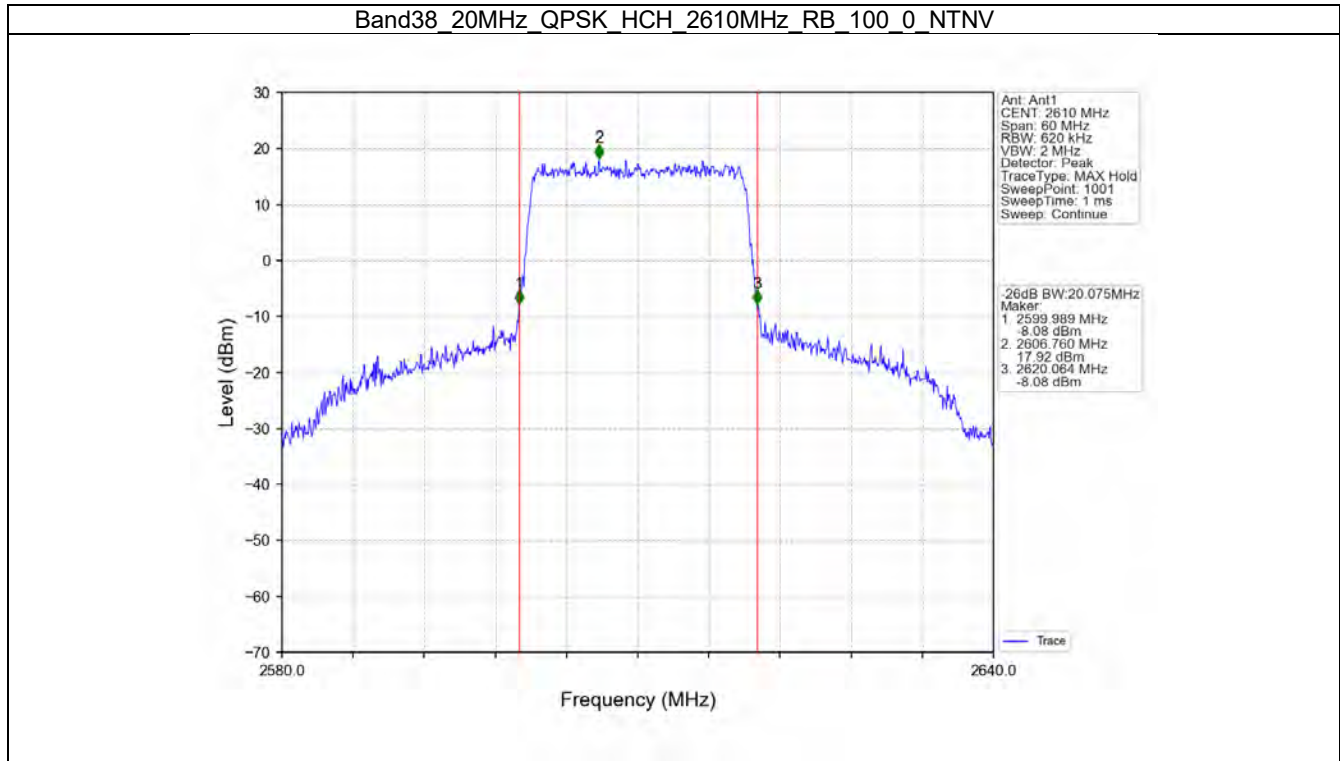


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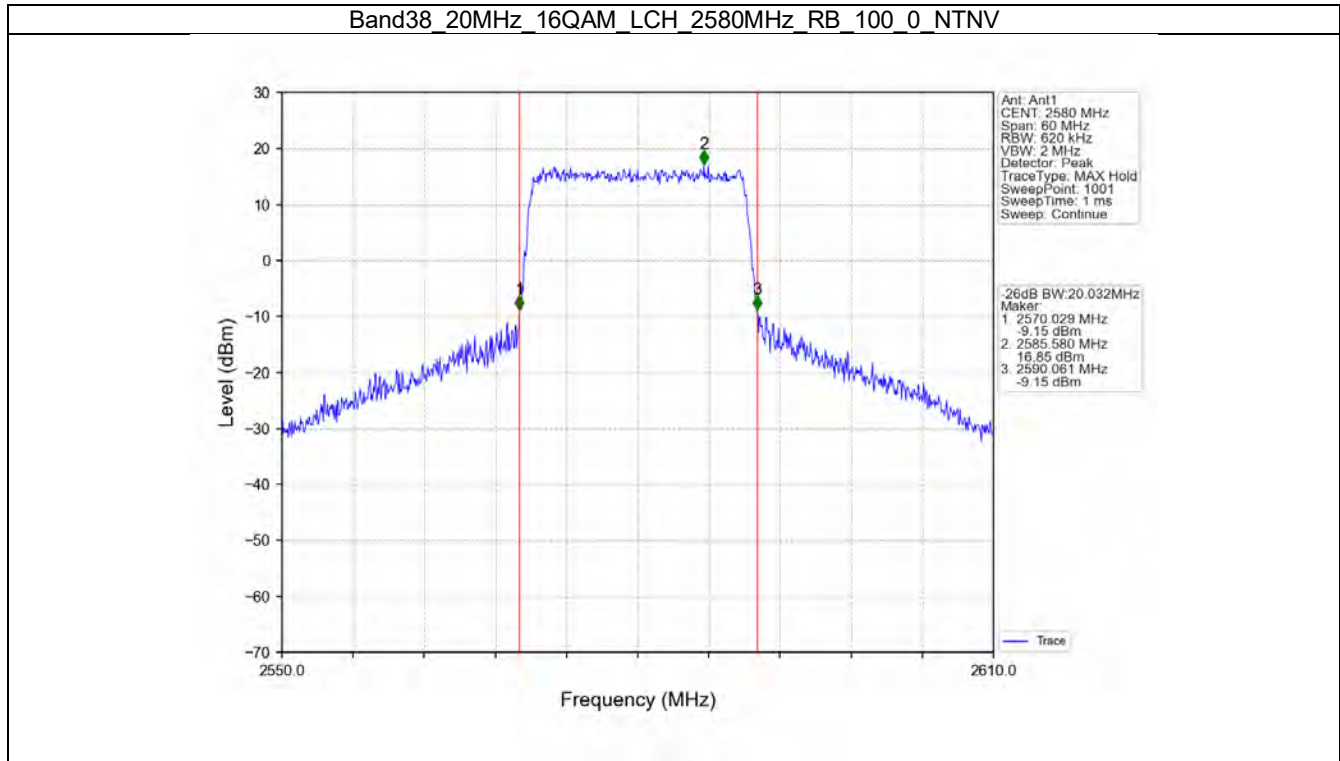


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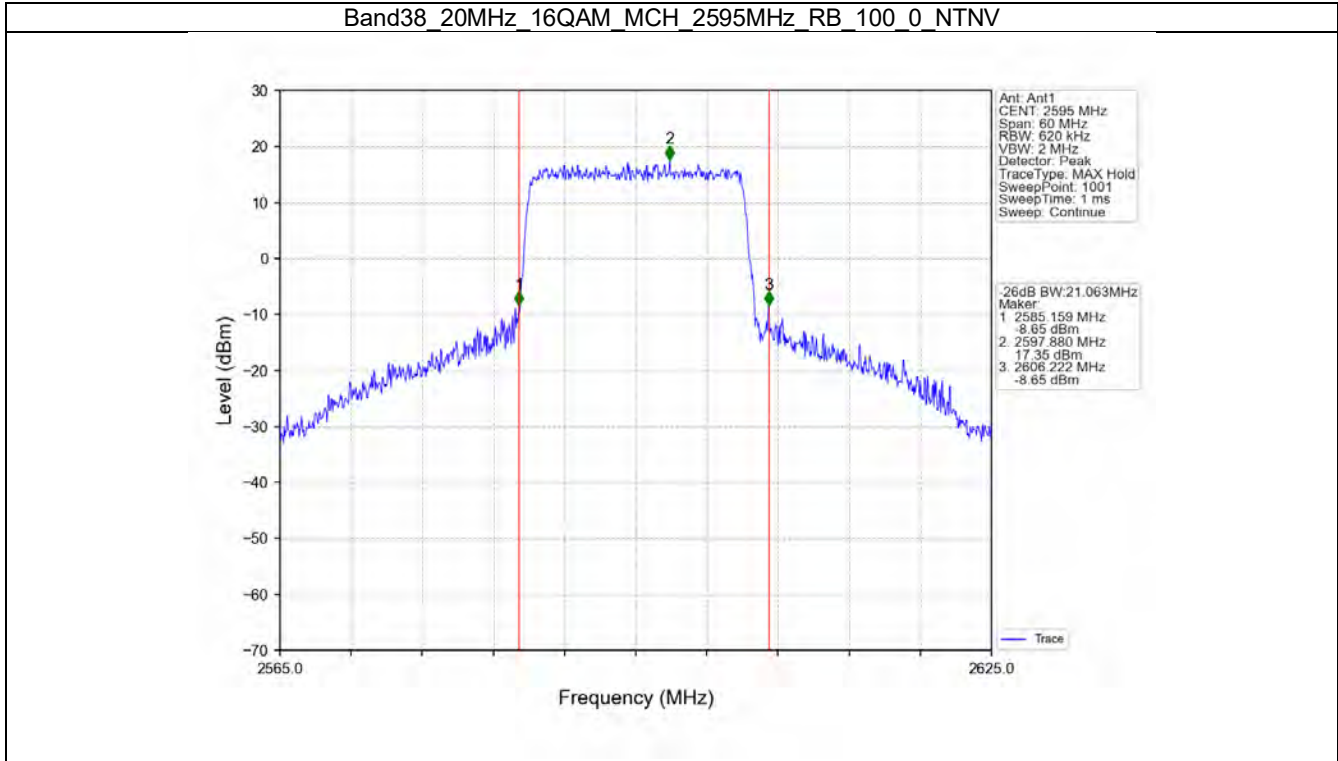


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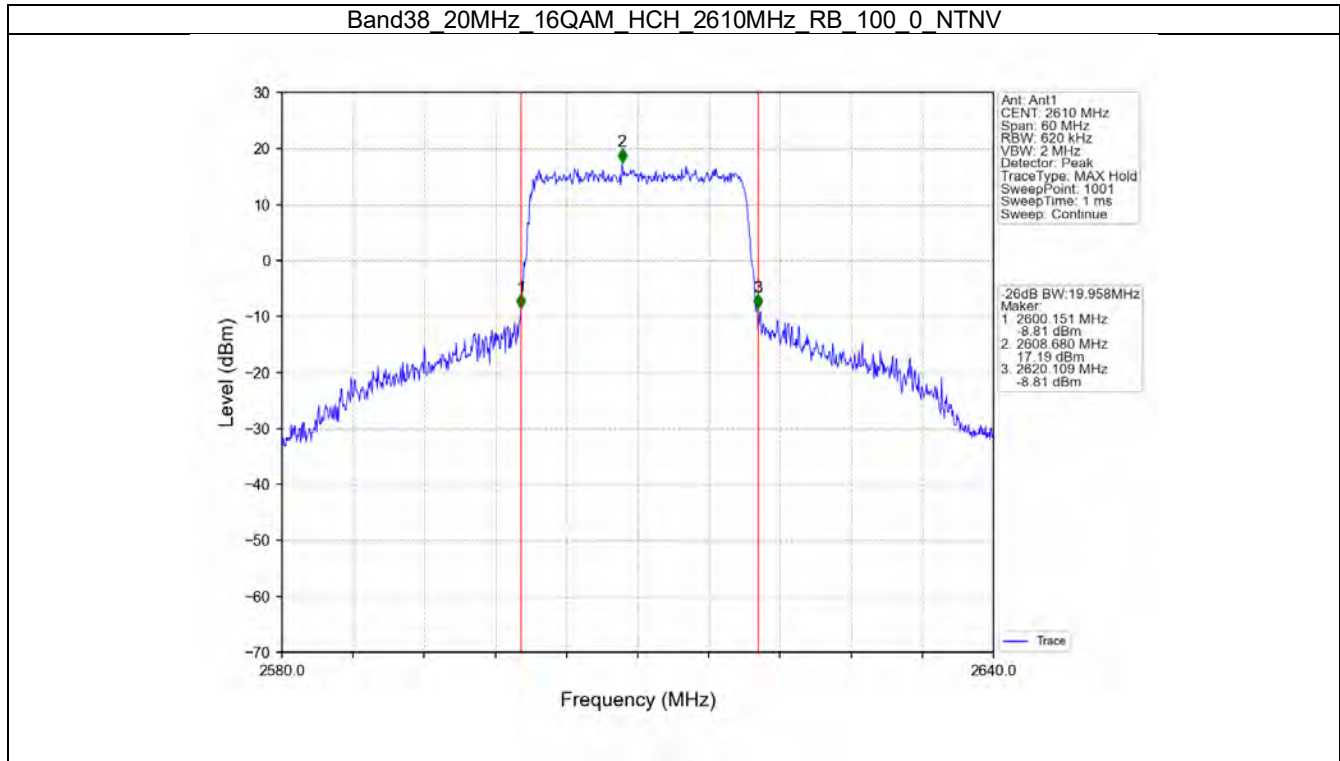


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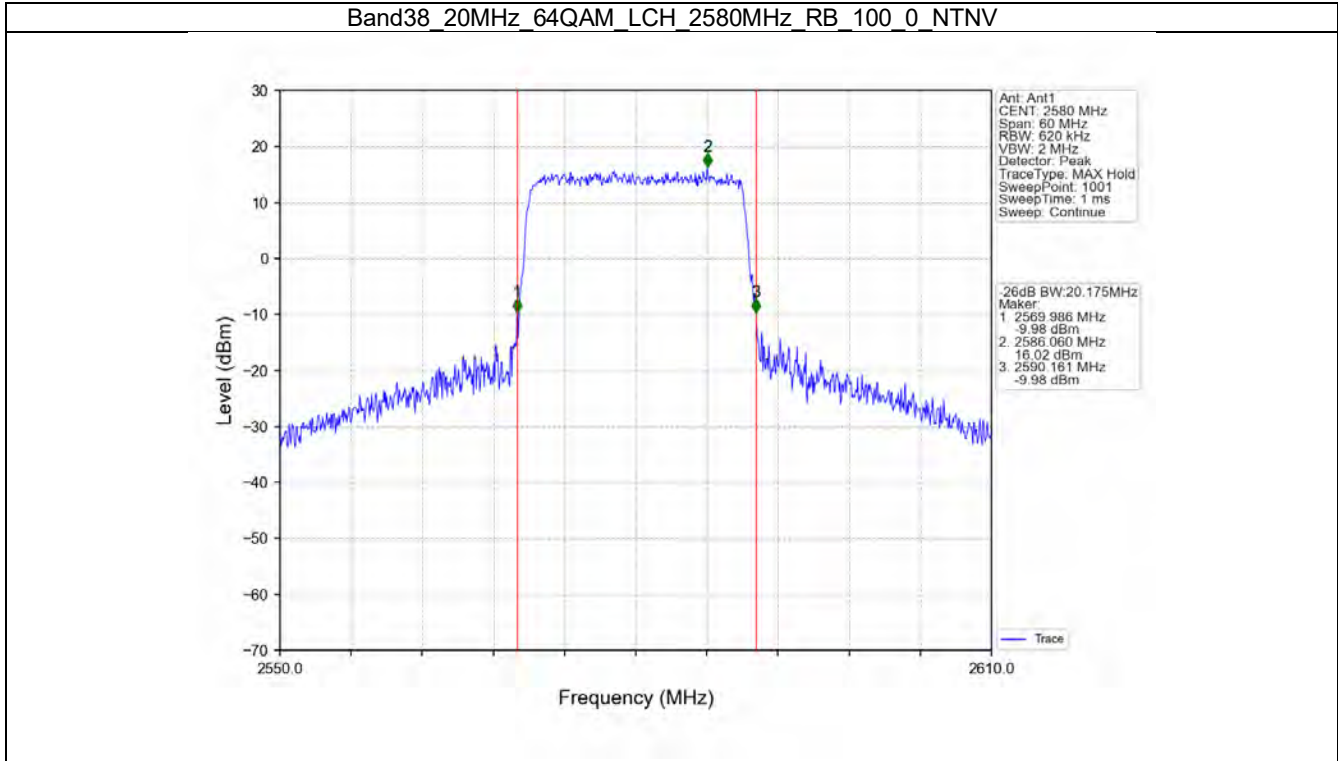


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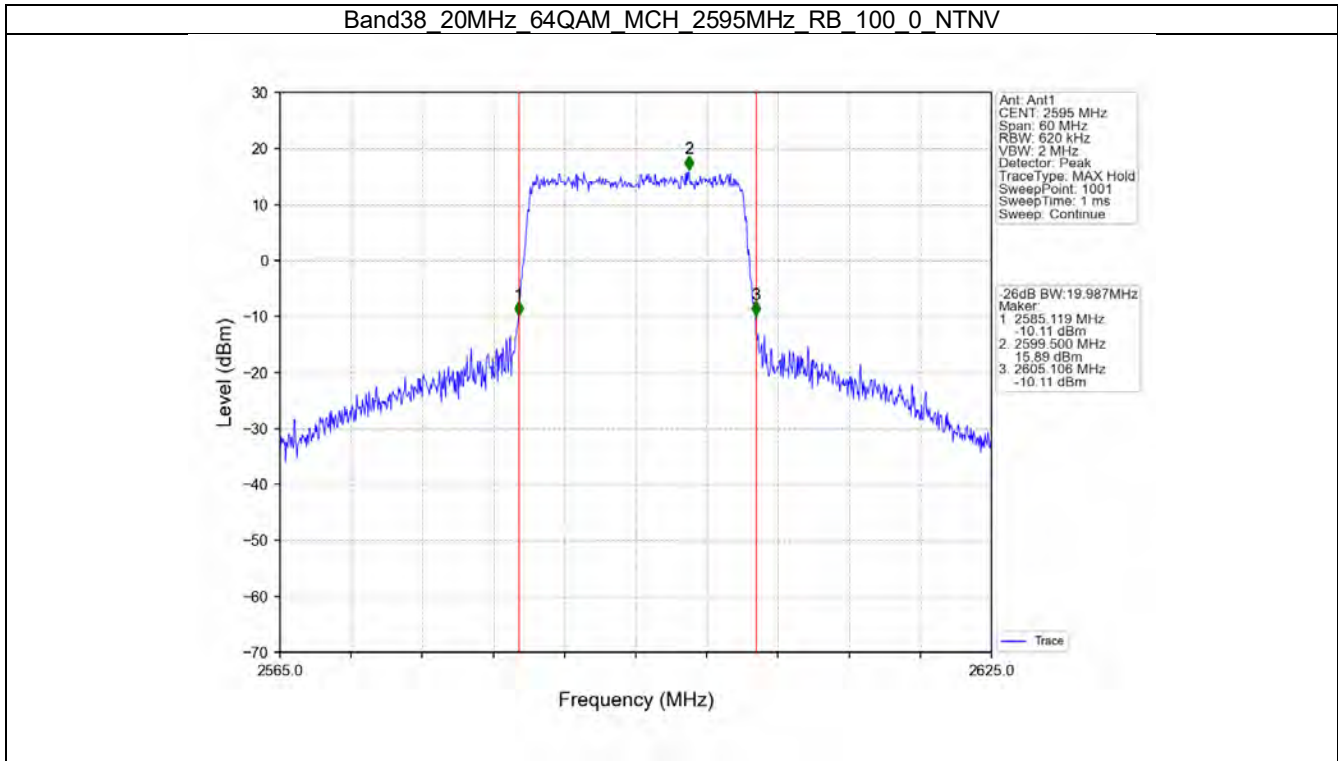


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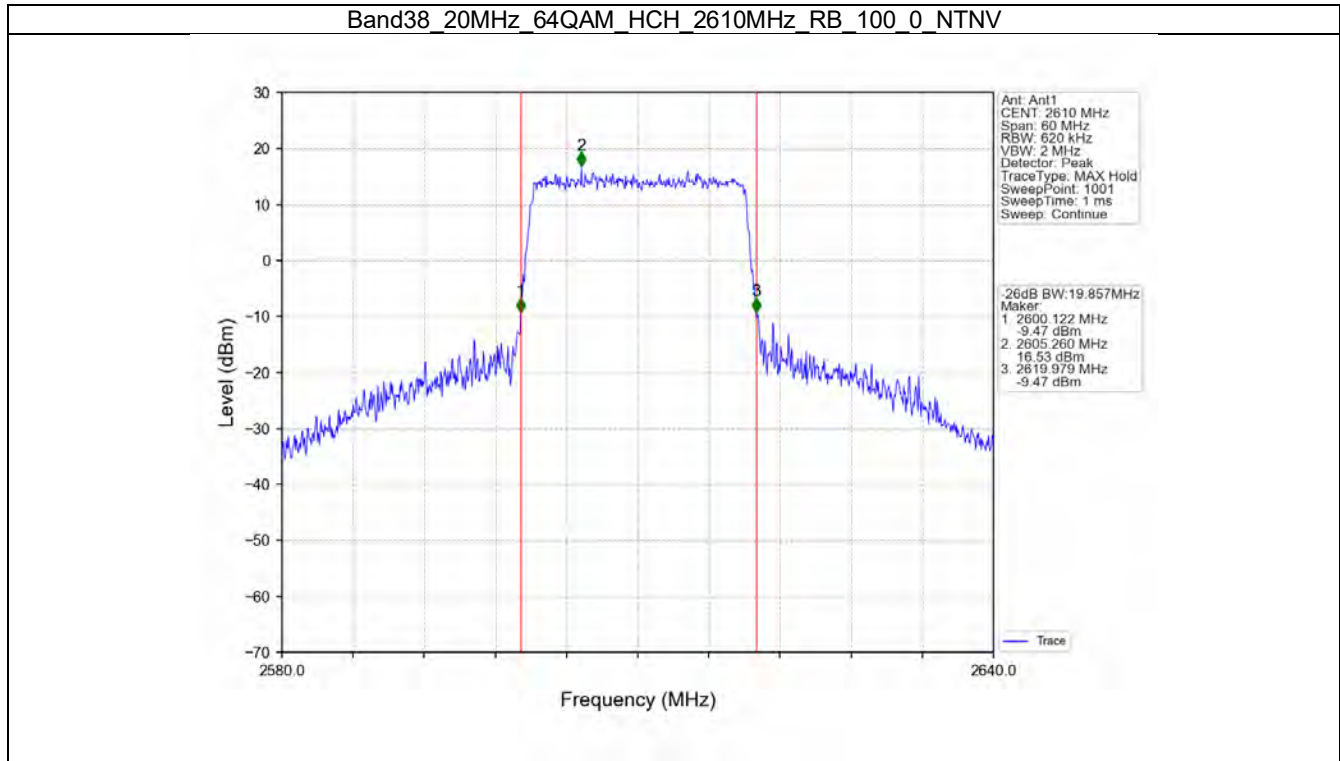


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4. Peak-Average Ratio

4.1 B38_5MHz

4.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	25	0	7.38	<=13	Pass
	2595	25	0	7.17	<=13	Pass
	2617.5	25	0	6.95	<=13	Pass
16QAM	2572.5	25	0	8.16	<=13	Pass
	2595	25	0	7.84	<=13	Pass
	2617.5	25	0	7.72	<=13	Pass
64QAM	2572.5	25	0	8.45	<=13	Pass
	2595	25	0	8.32	<=13	Pass
	2617.5	25	0	8.24	<=13	Pass



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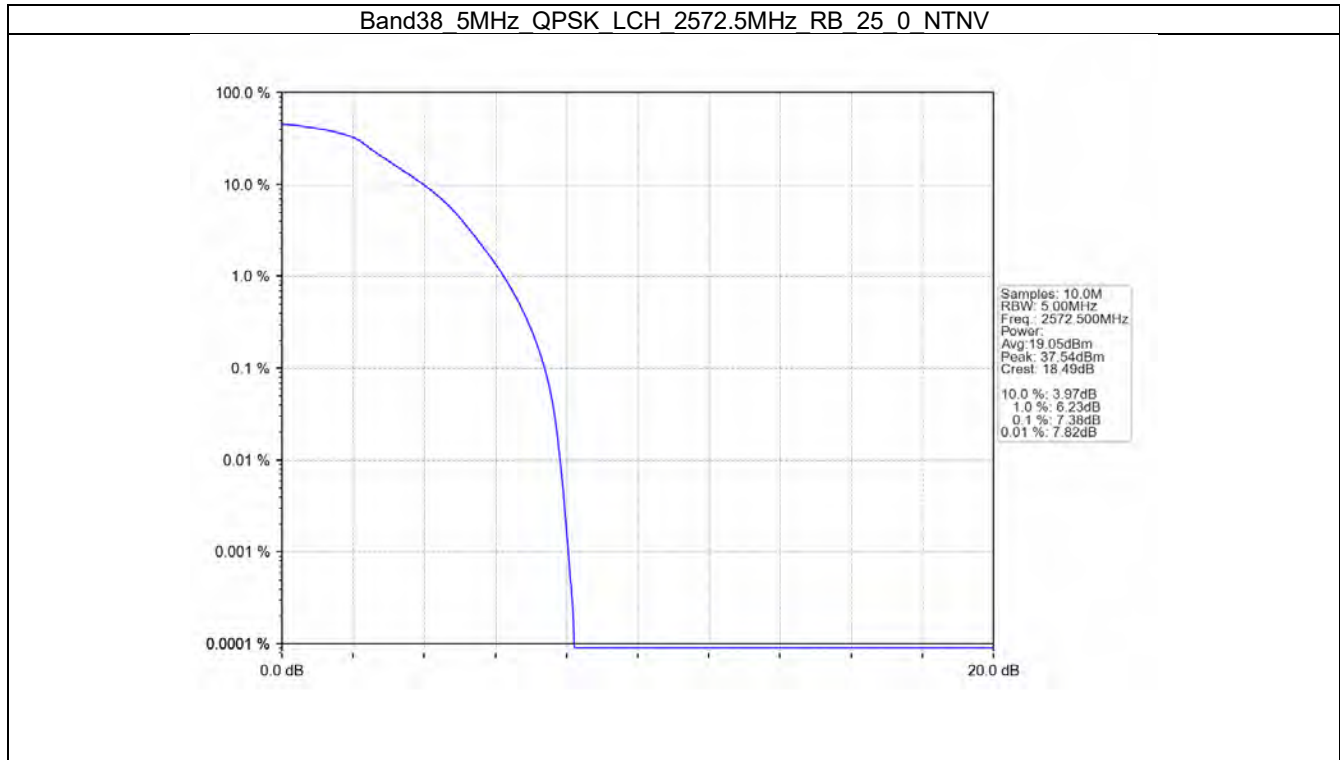
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4.1.2 Test Graph



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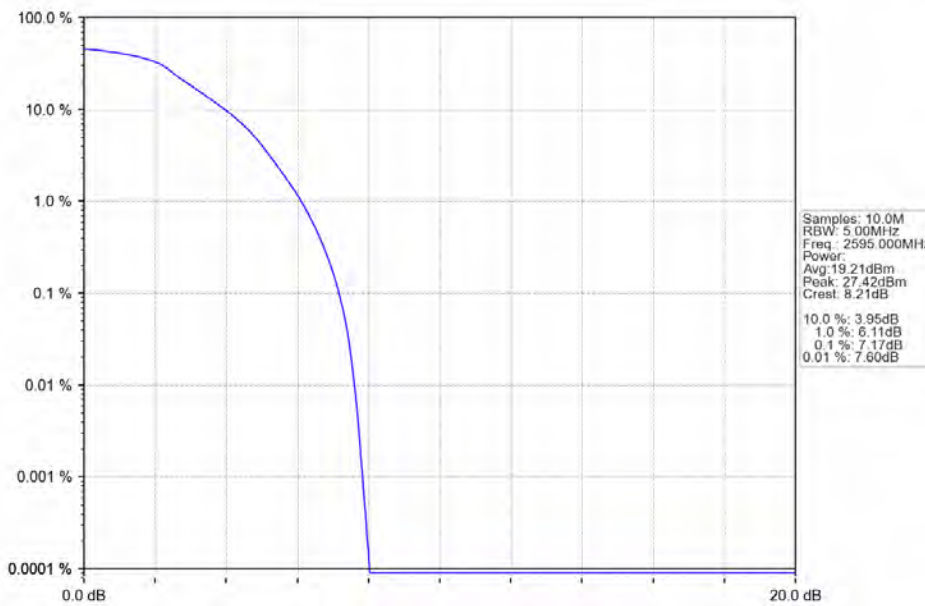
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Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTV



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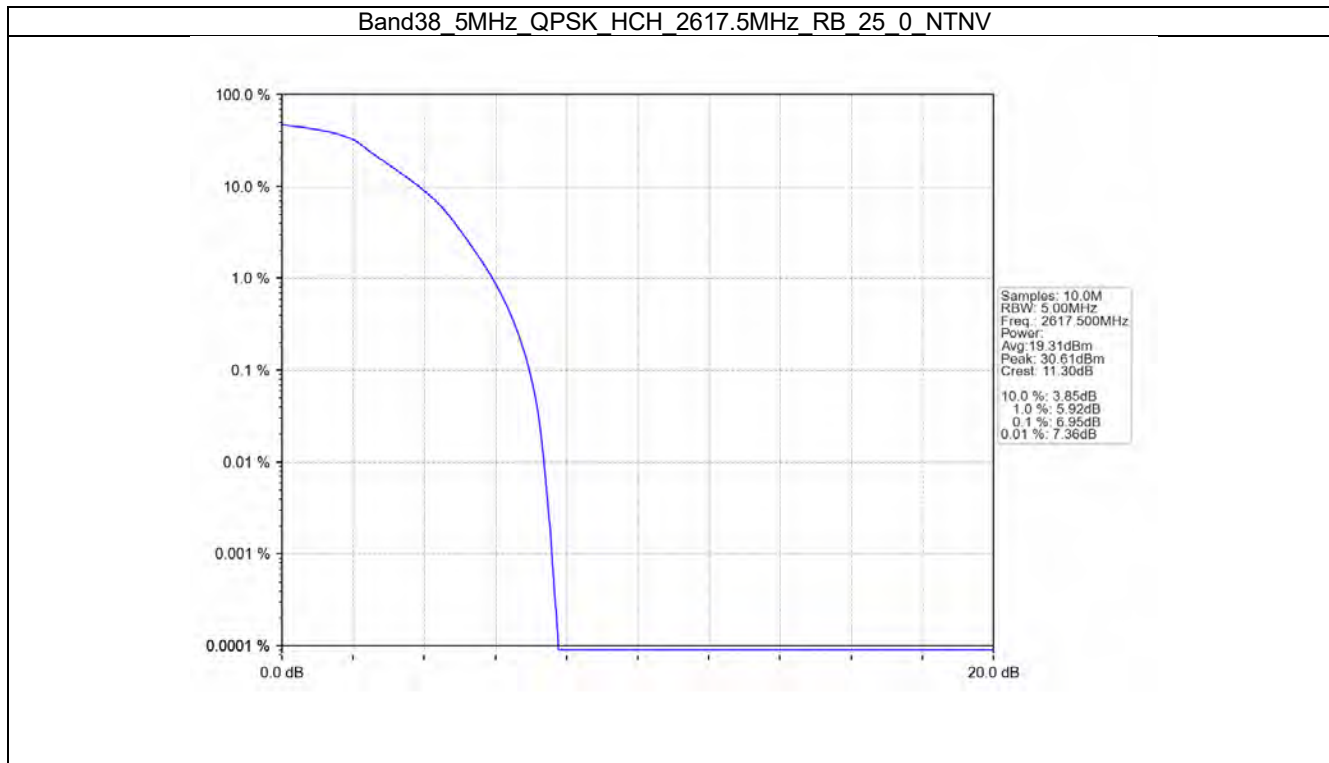
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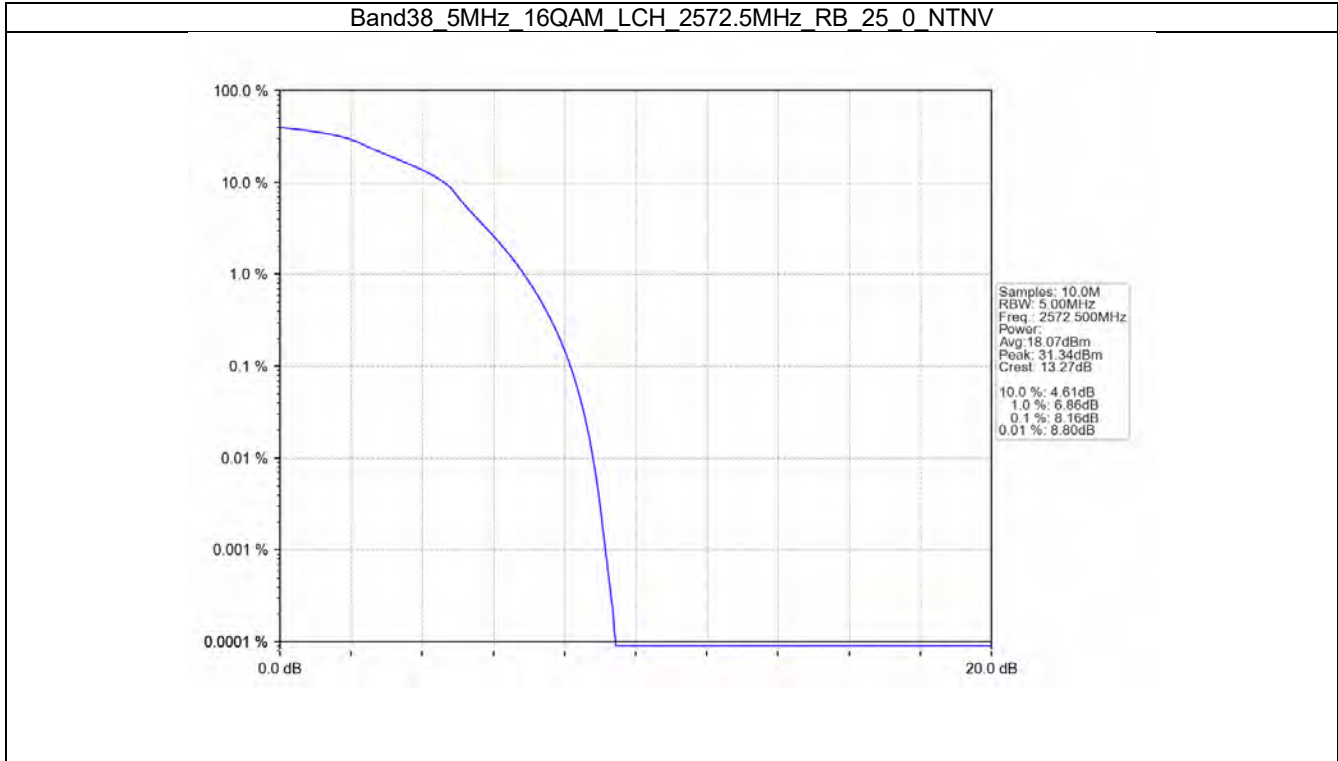


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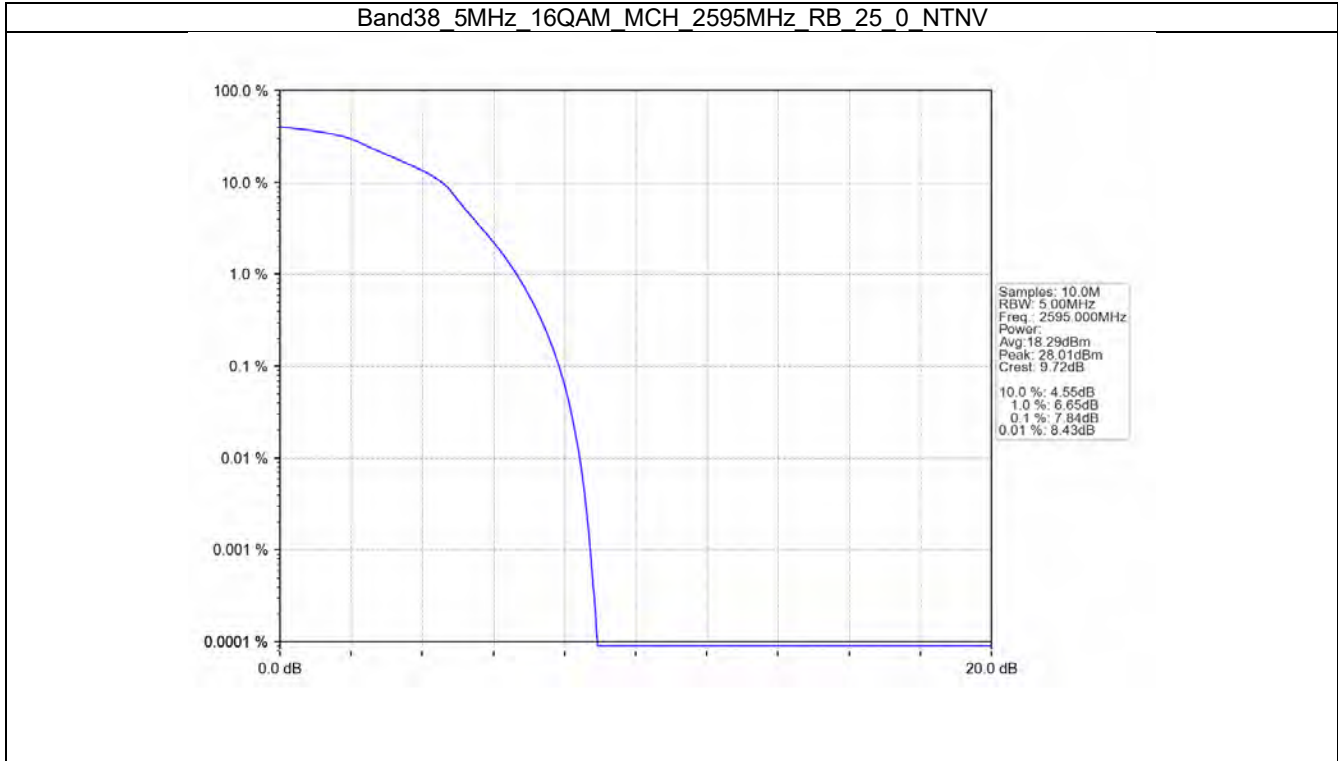


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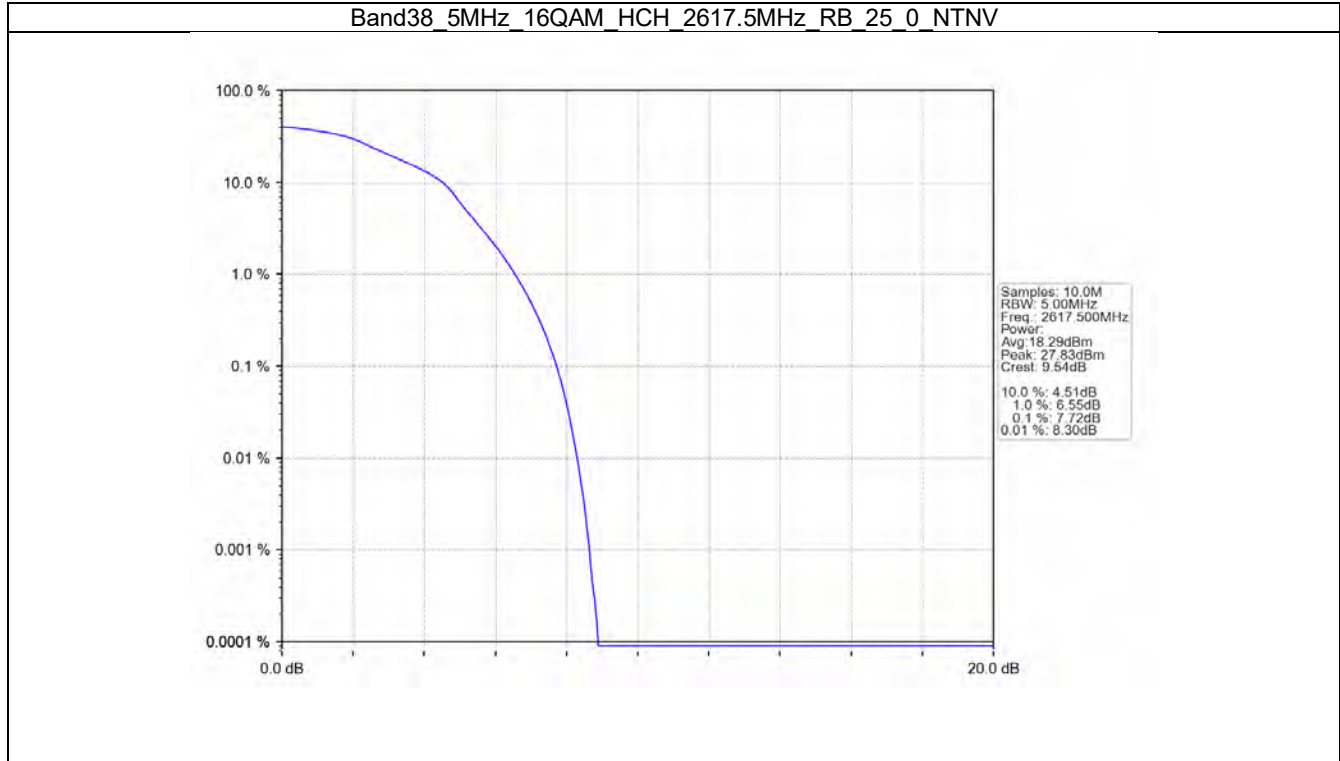


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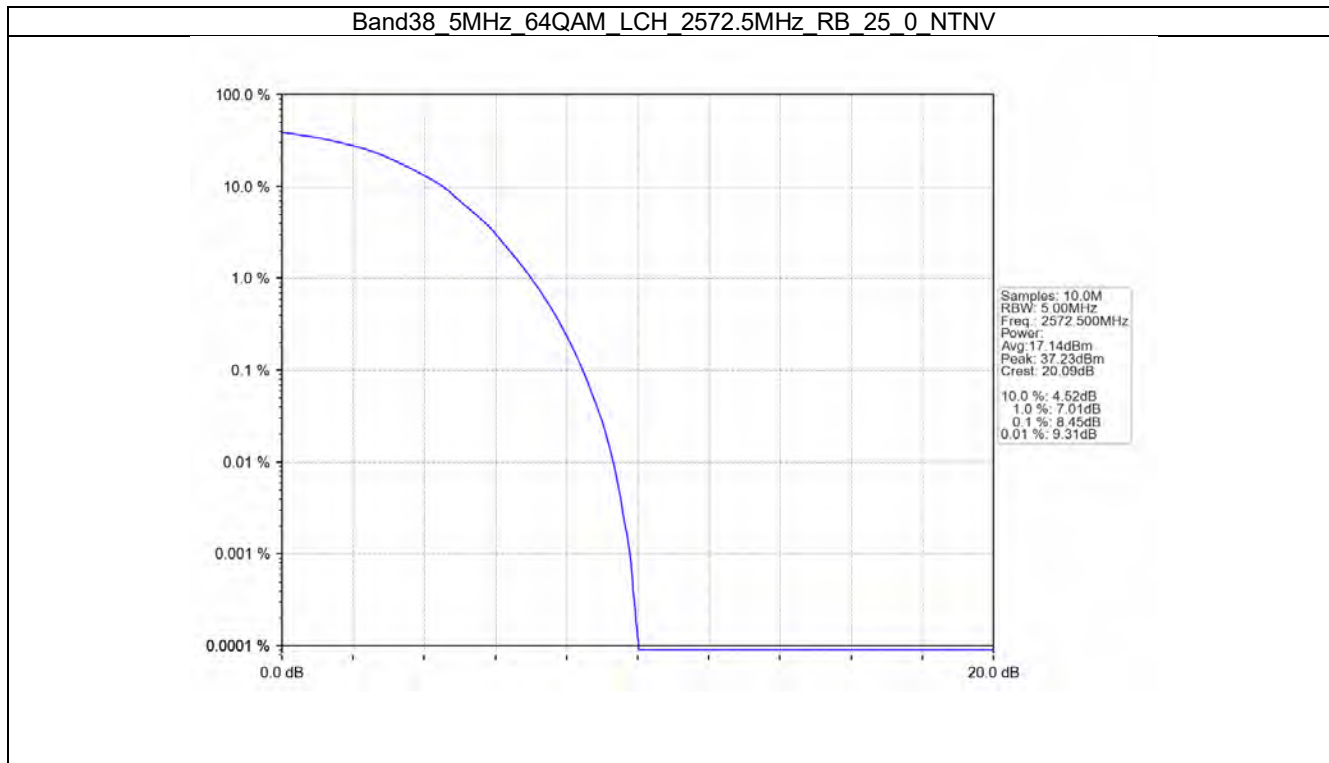
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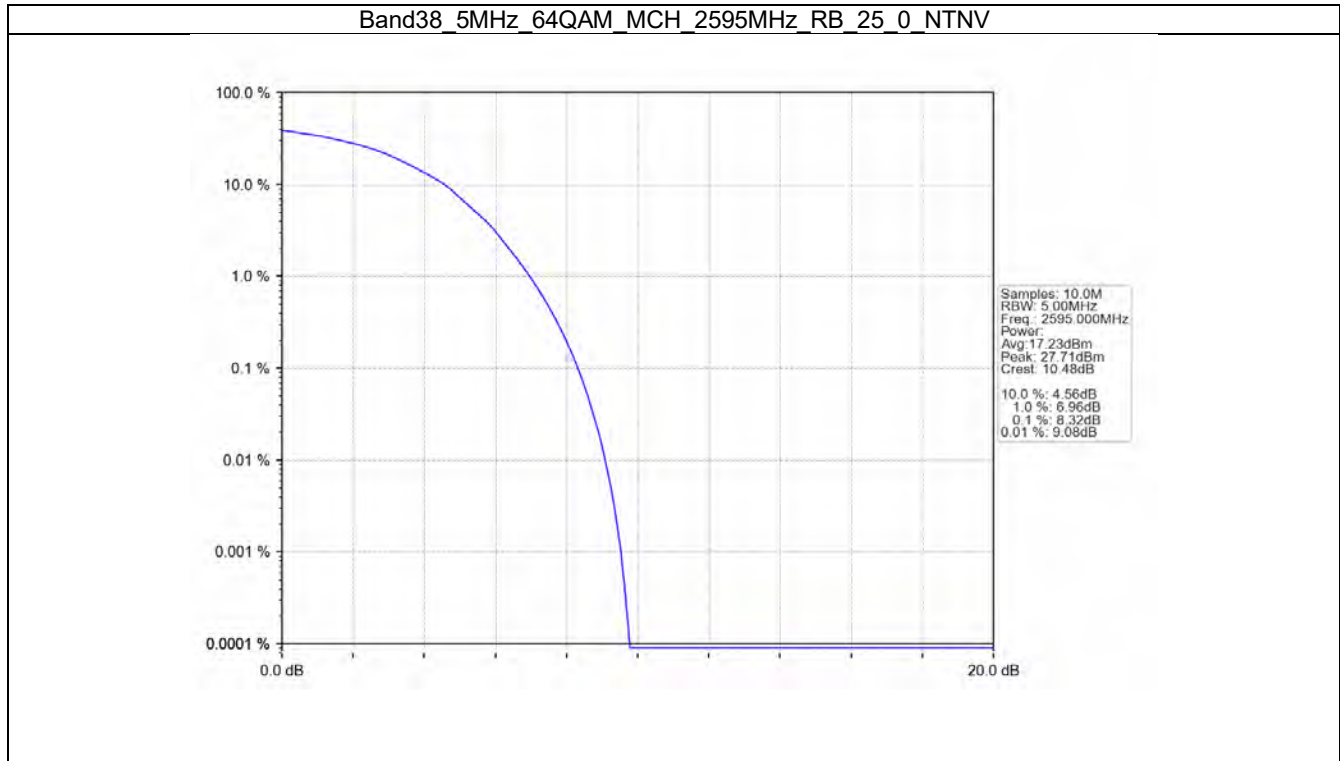


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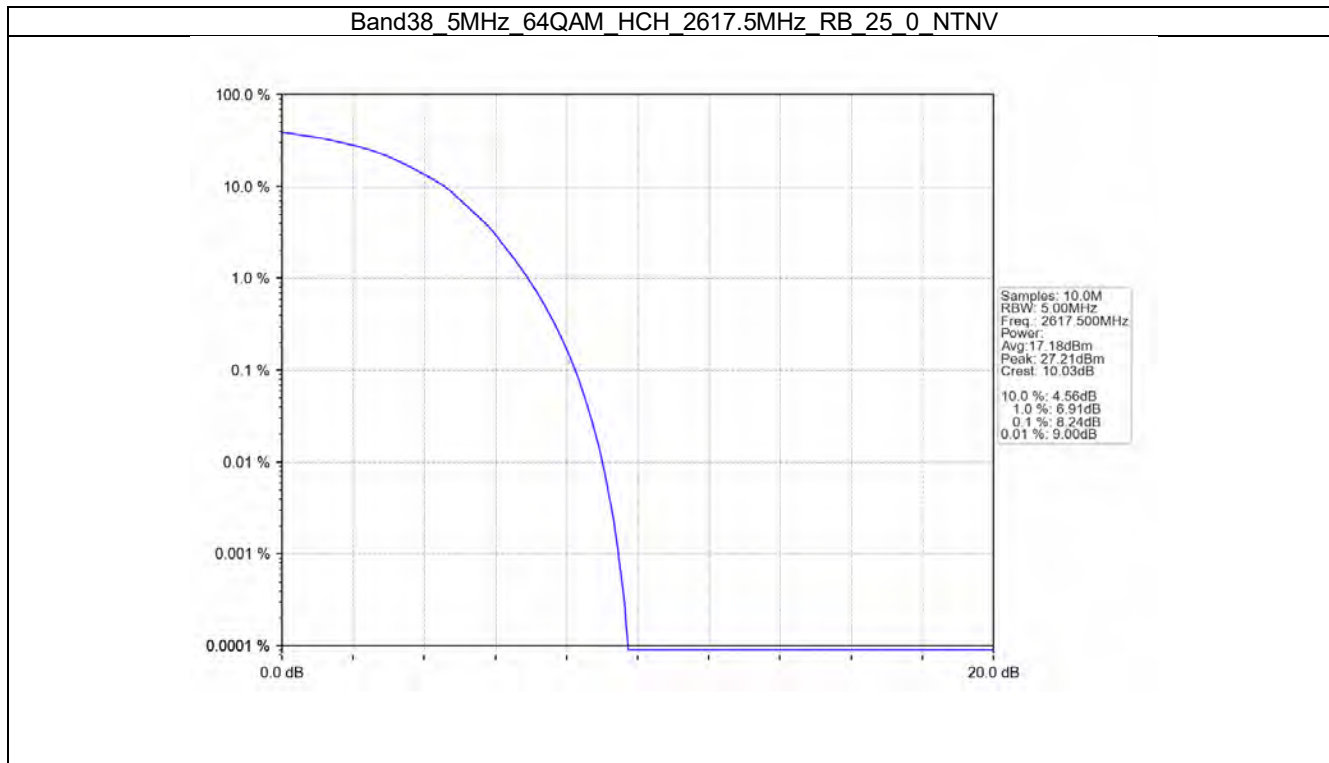
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4.2 B38_10MHz

4.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	50	0	7.34	<=13	Pass
	2595	50	0	7.24	<=13	Pass
	2615	50	0	6.94	<=13	Pass
16QAM	2575	50	0	8.09	<=13	Pass
	2595	50	0	7.92	<=13	Pass
	2615	50	0	7.87	<=13	Pass
64QAM	2575	50	0	8.39	<=13	Pass
	2595	50	0	8.44	<=13	Pass
	2615	50	0	8.16	<=13	Pass



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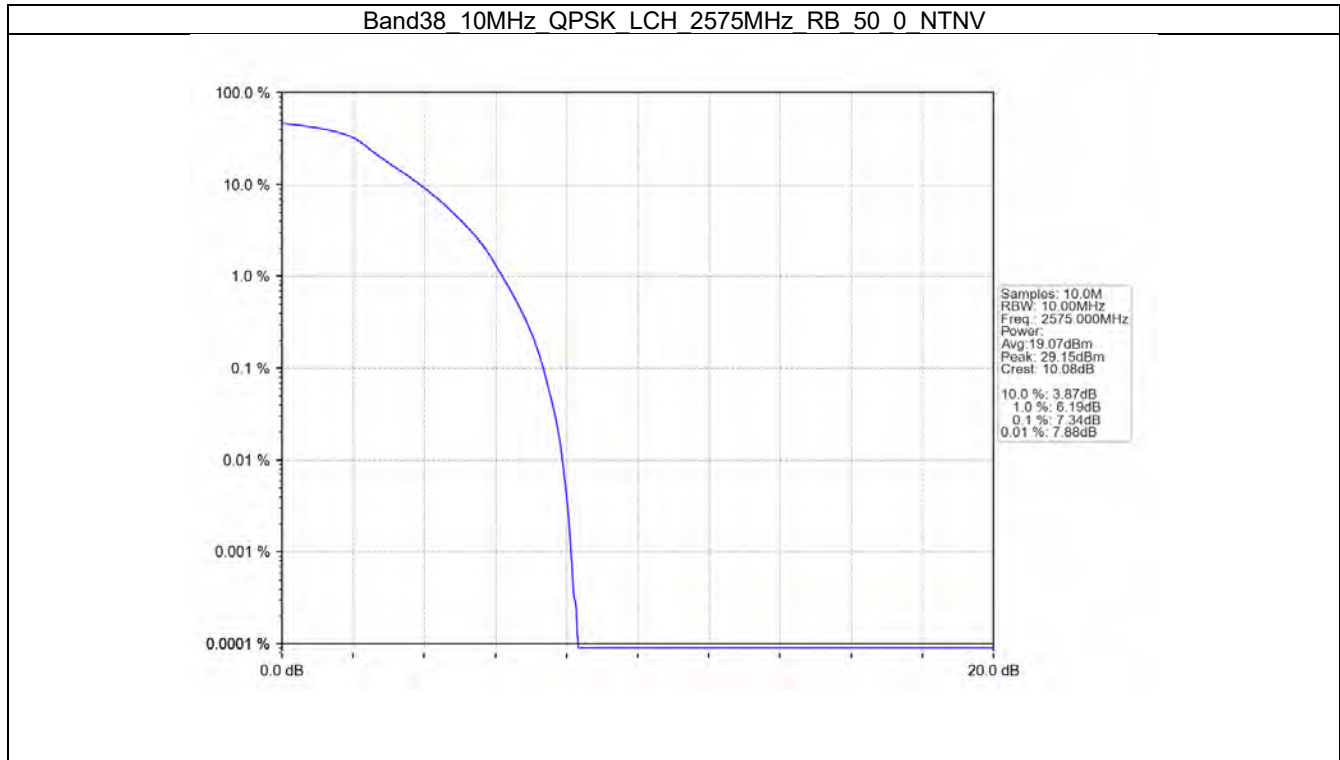
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4.2.2 Test Graph



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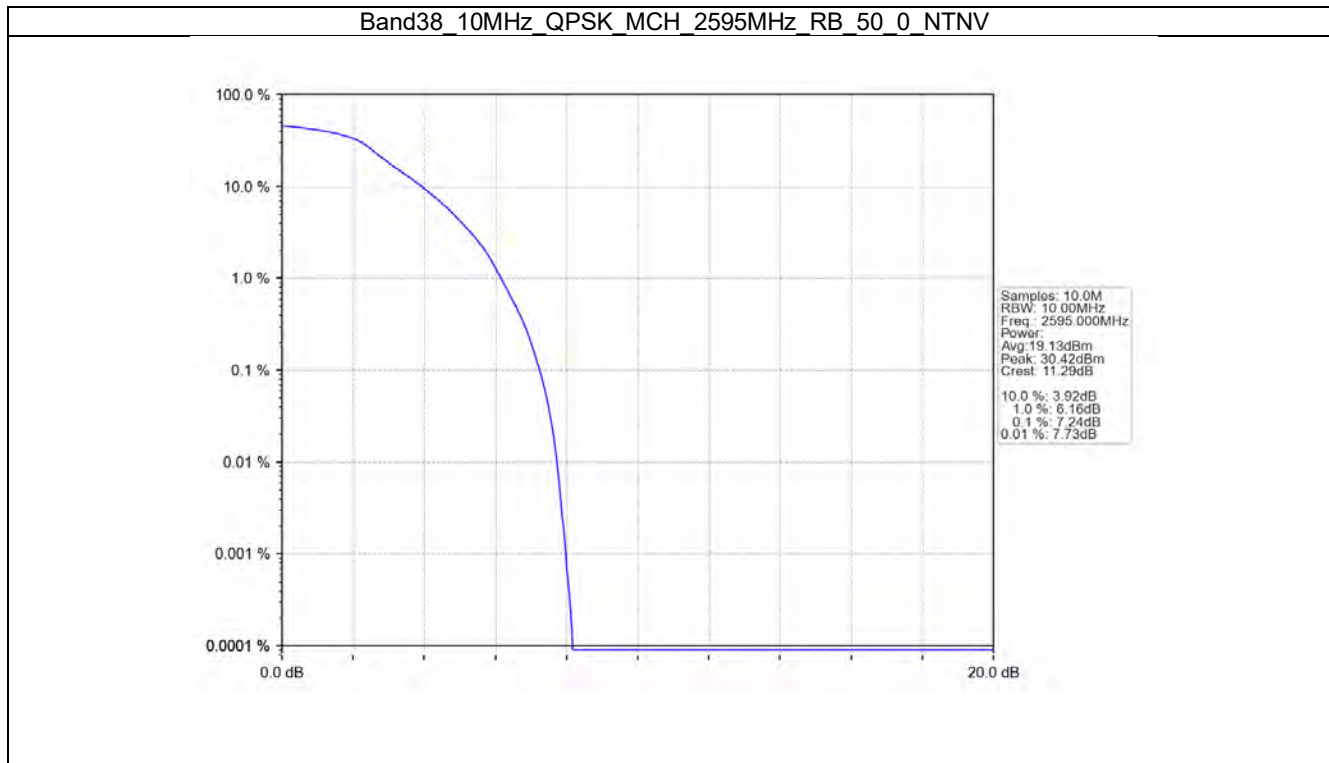
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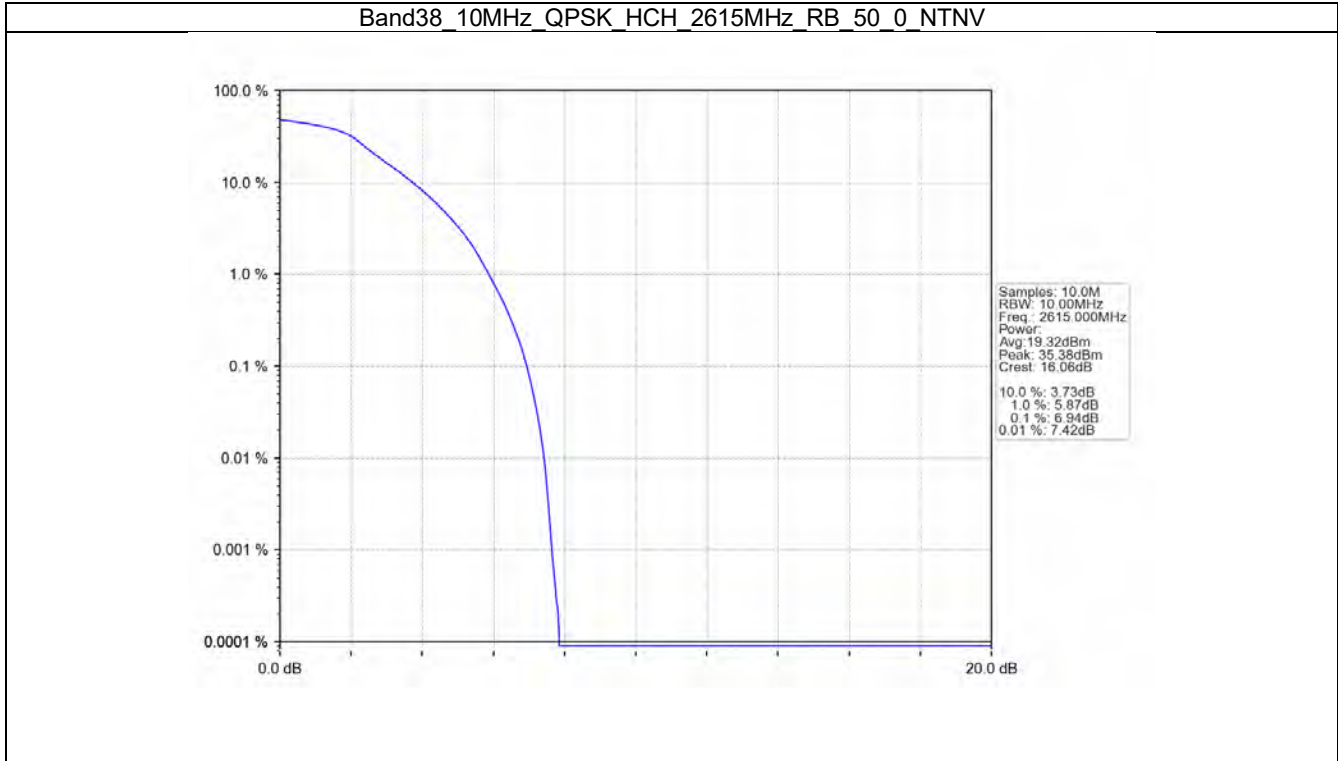


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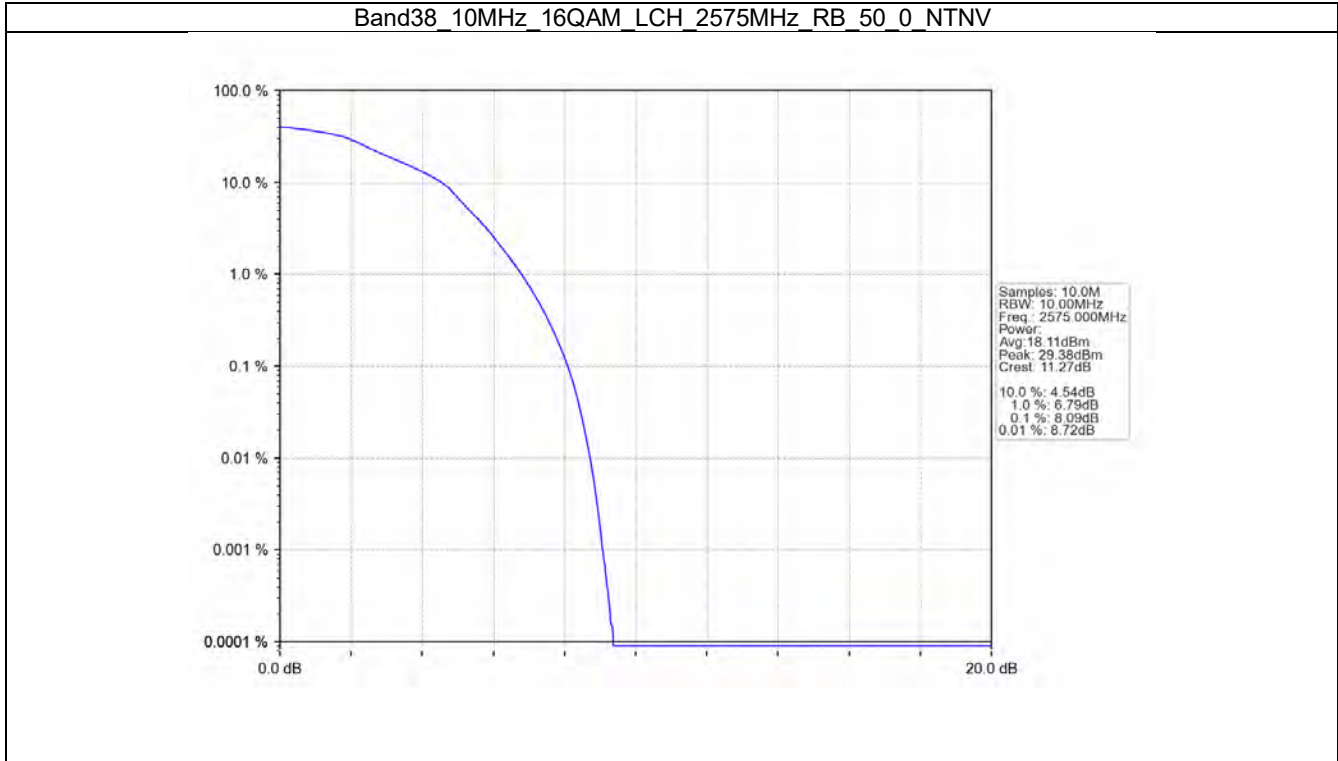


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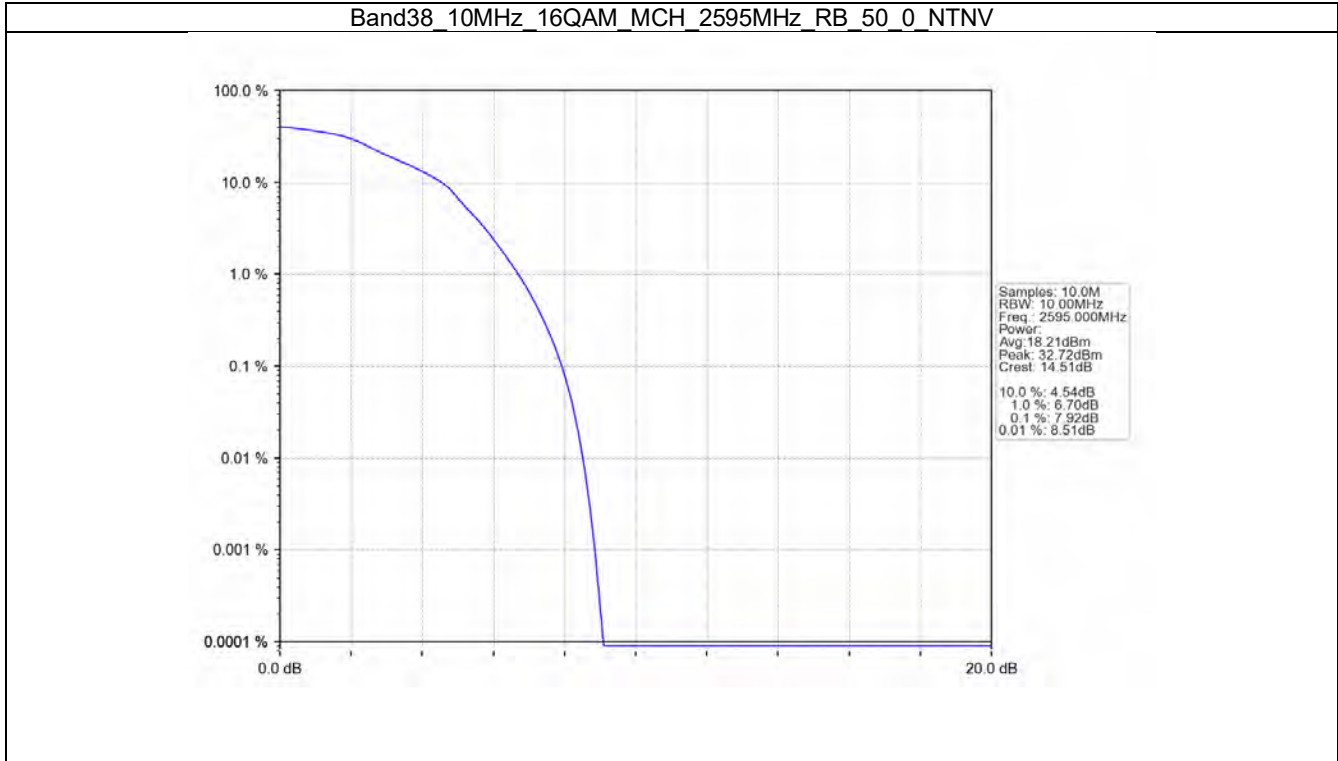


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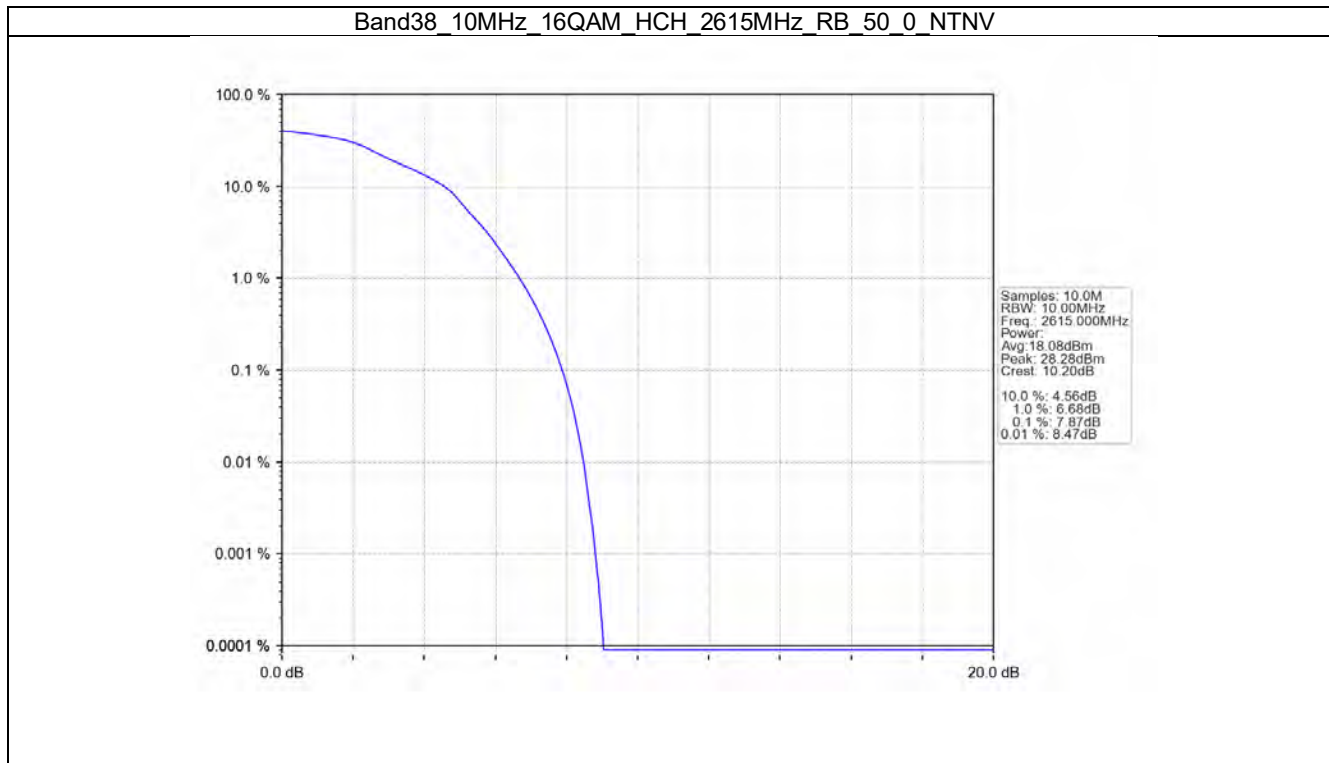
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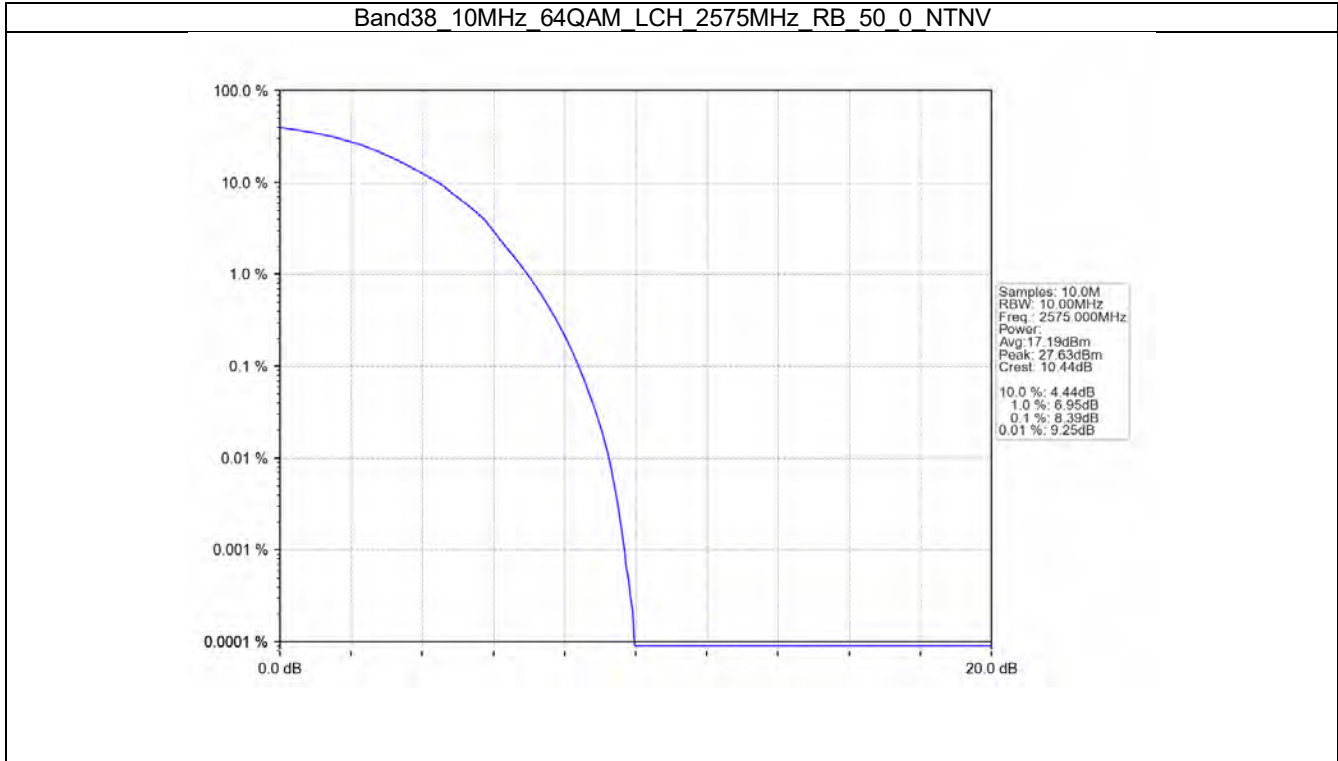


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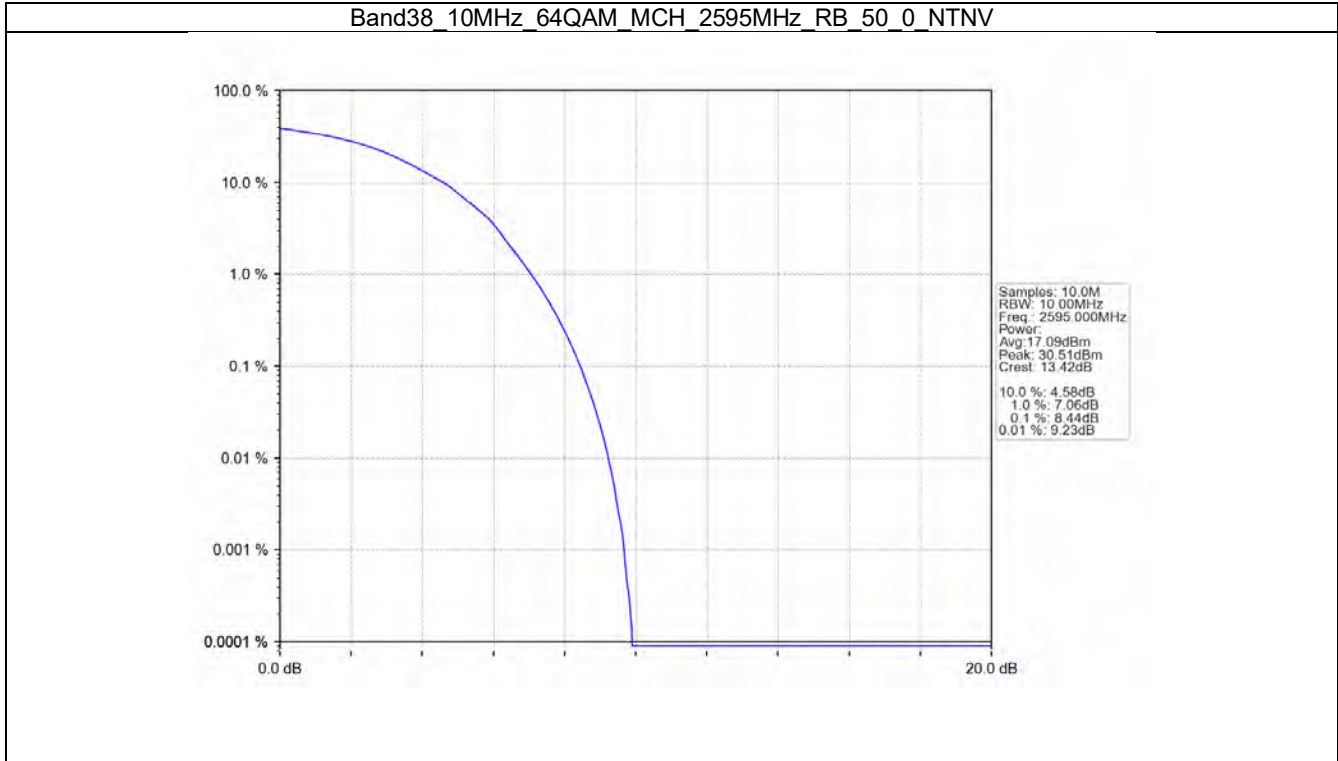


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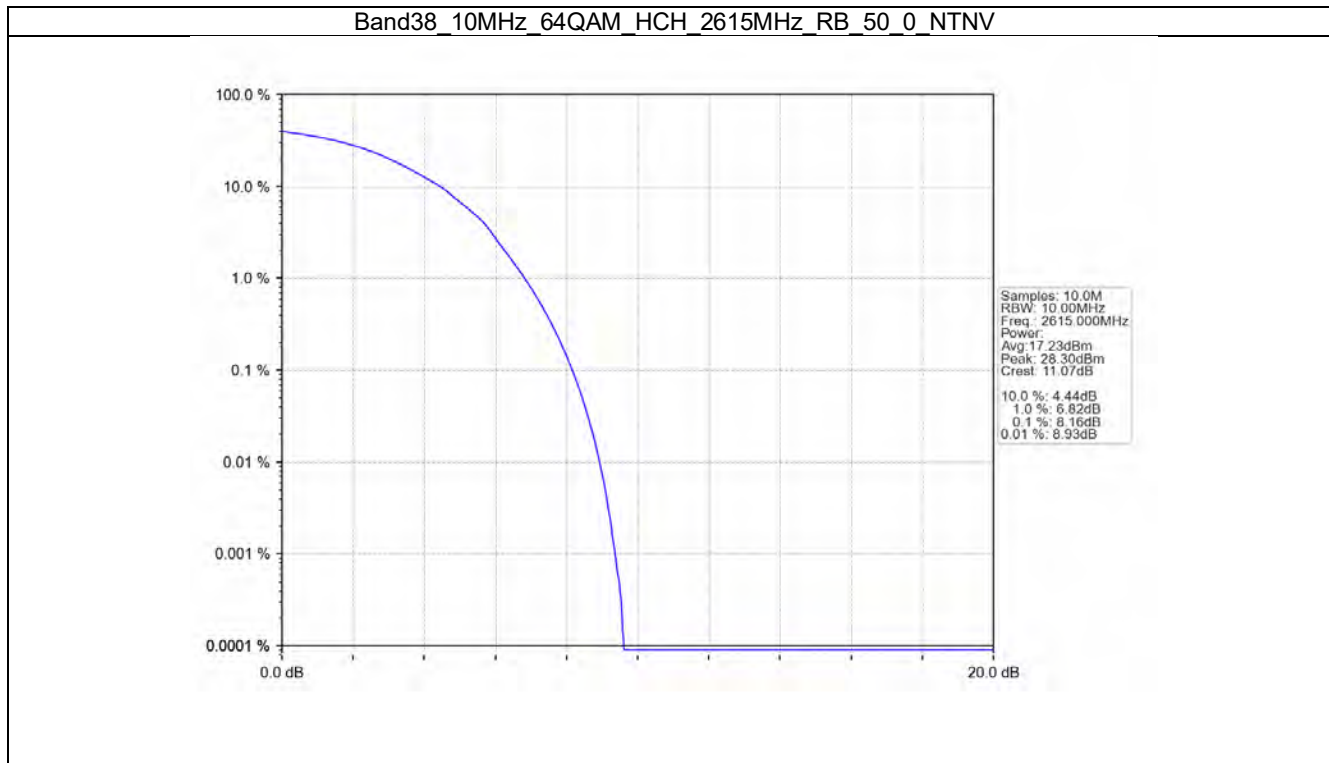
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4.3 B38_15MHz

4.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	75	0	7.53	<=13	Pass
	2595	75	0	7.32	<=13	Pass
	2612.5	75	0	7.30	<=13	Pass
16QAM	2577.5	75	0	8.19	<=13	Pass
	2595	75	0	8.28	<=13	Pass
	2612.5	75	0	7.96	<=13	Pass
64QAM	2577.5	75	0	8.57	<=13	Pass
	2595	75	0	8.49	<=13	Pass
	2612.5	75	0	8.31	<=13	Pass



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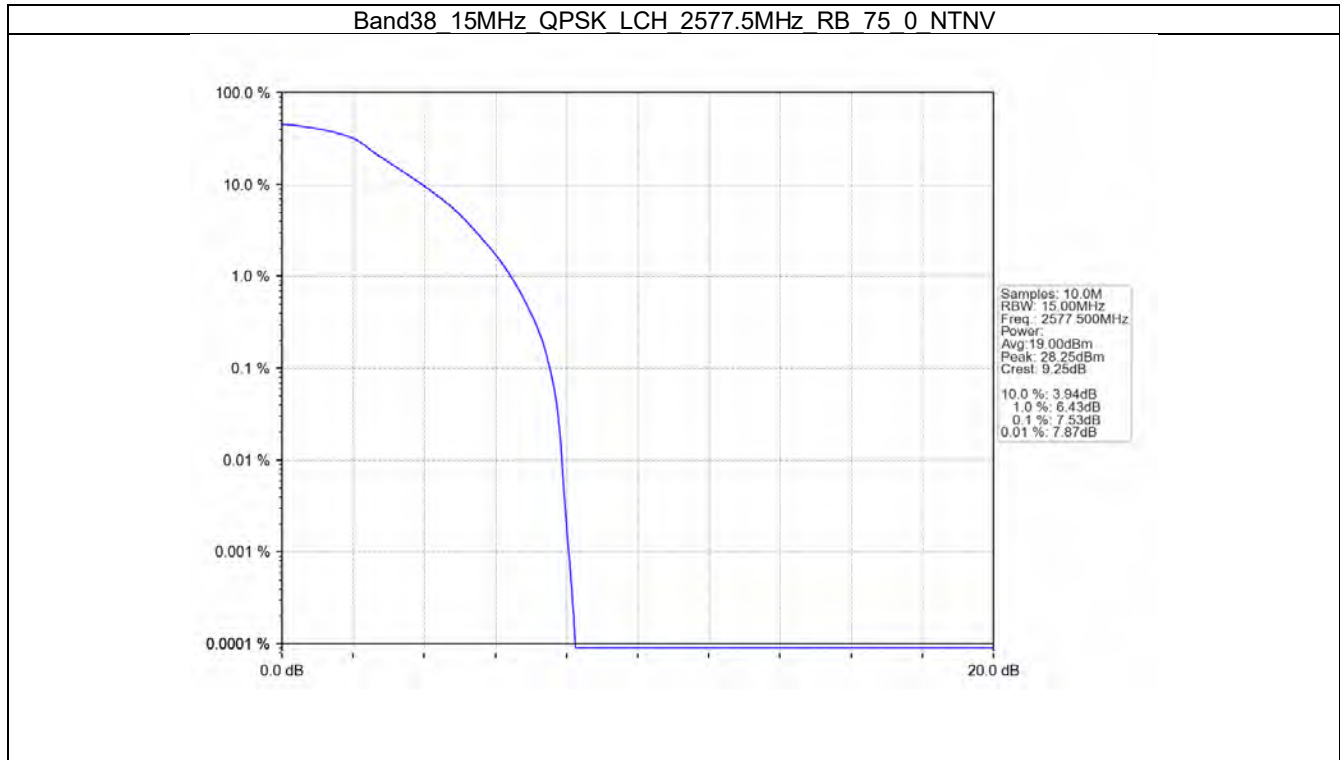
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4.3.2 Test Graph



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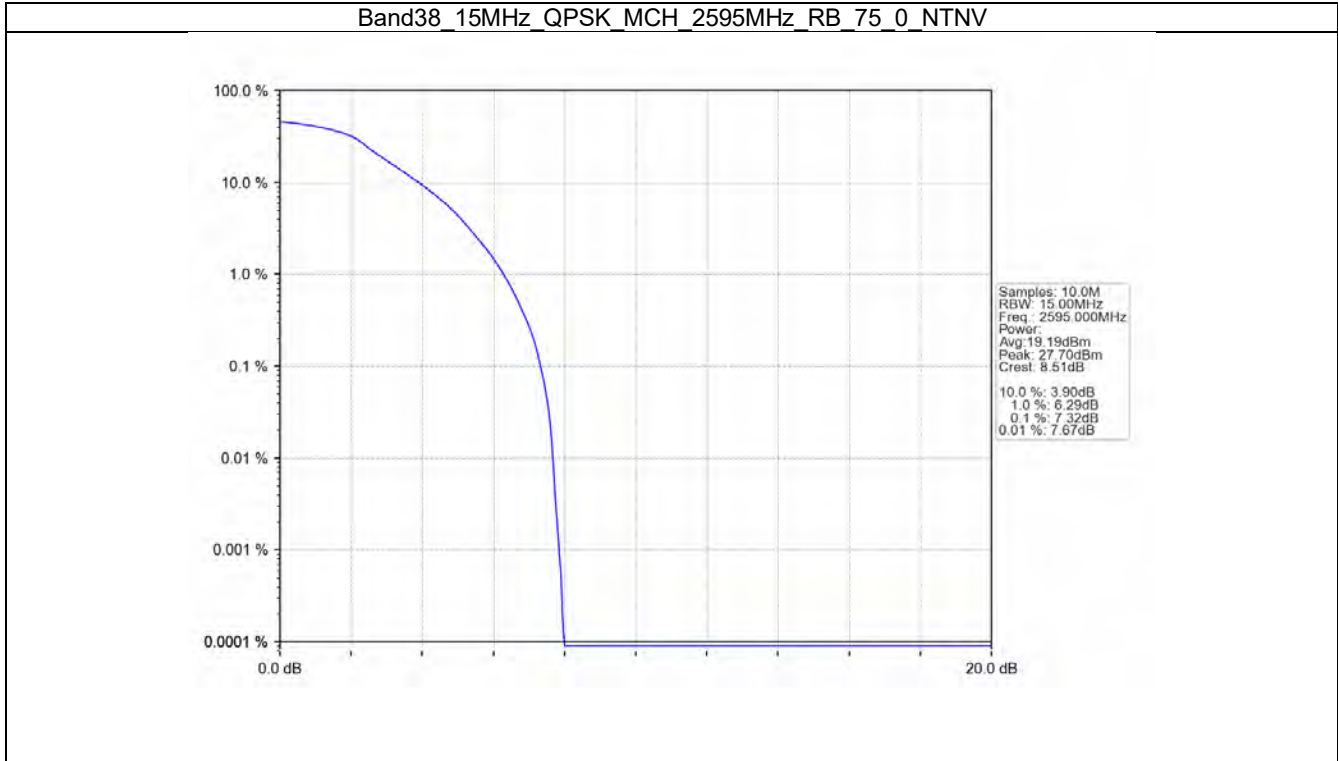


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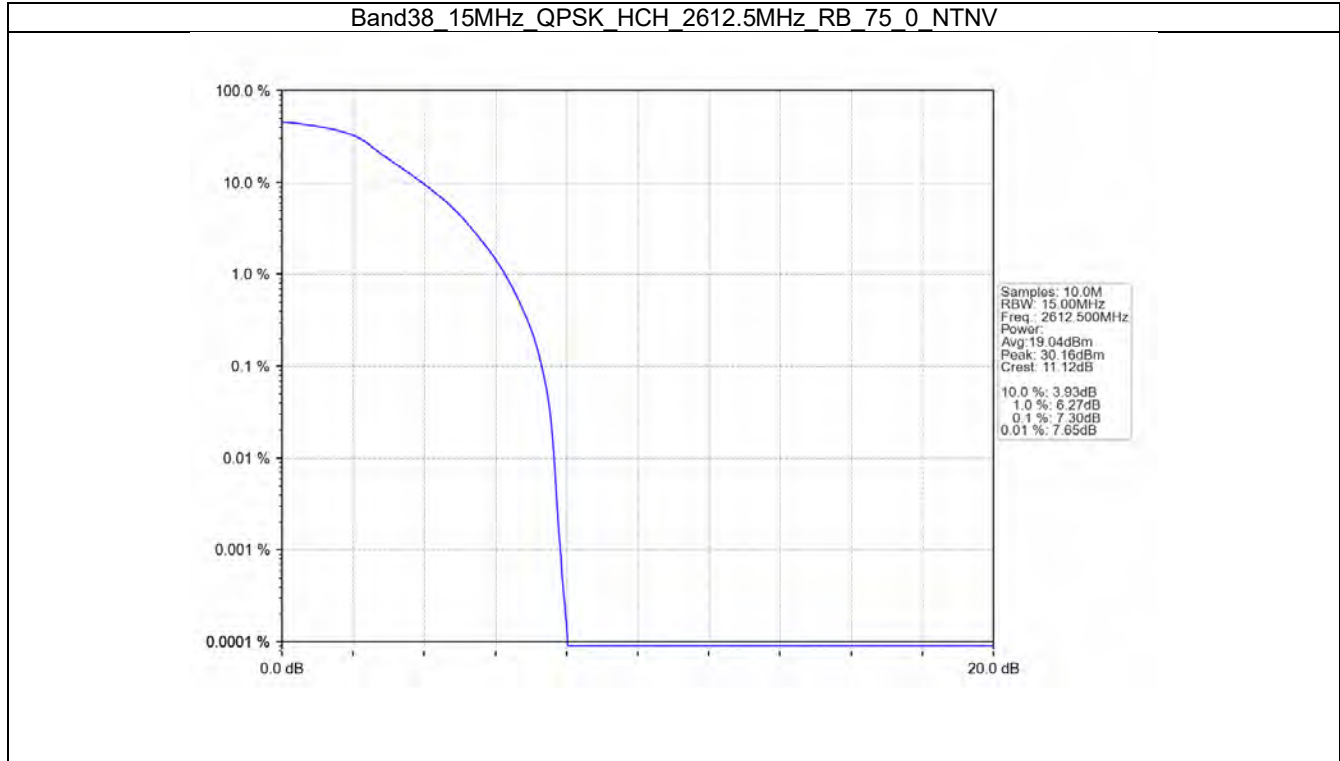
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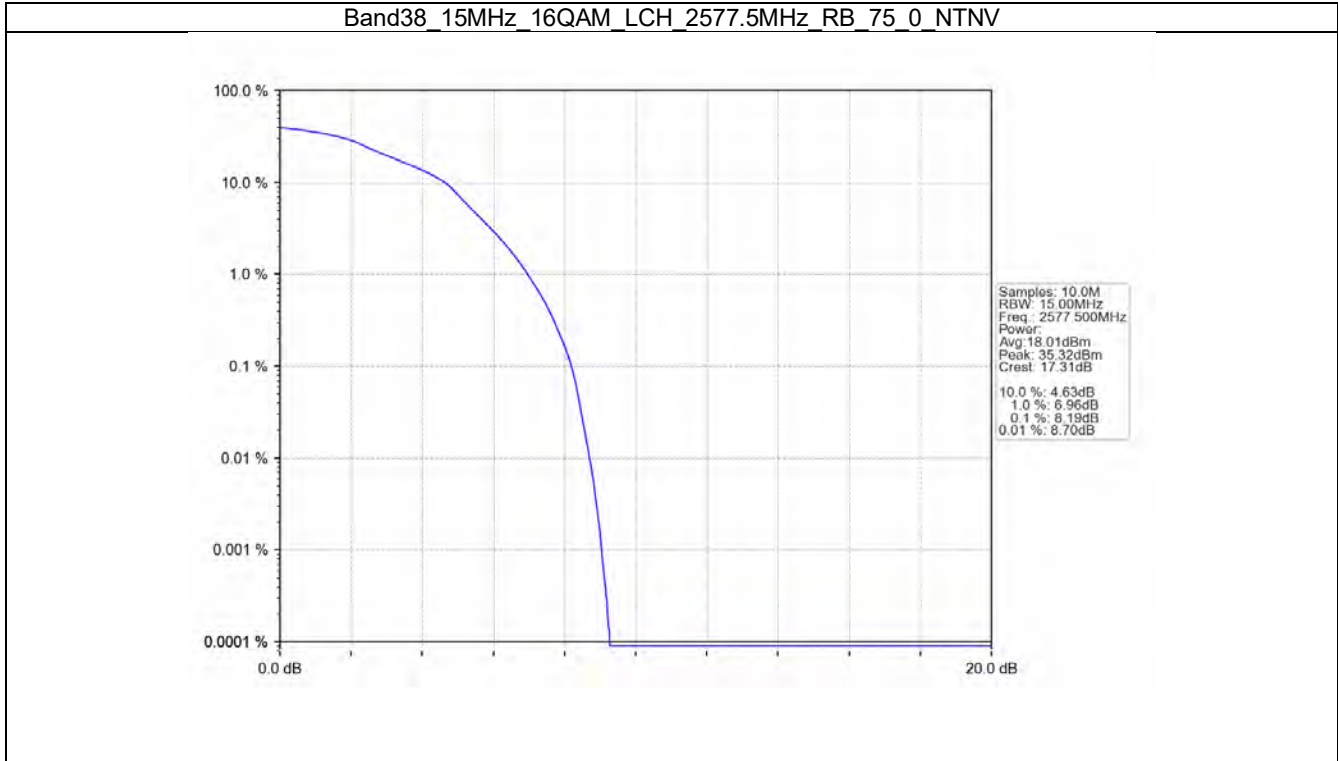


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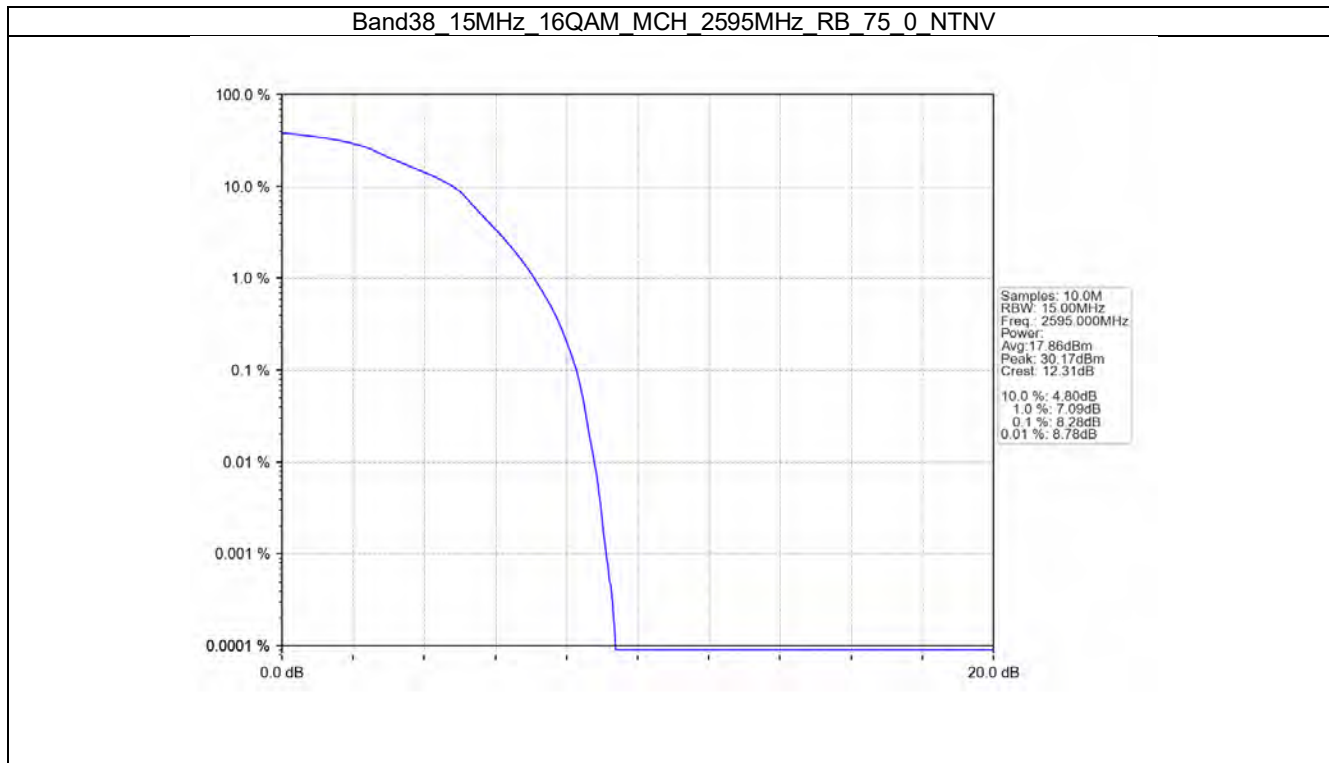
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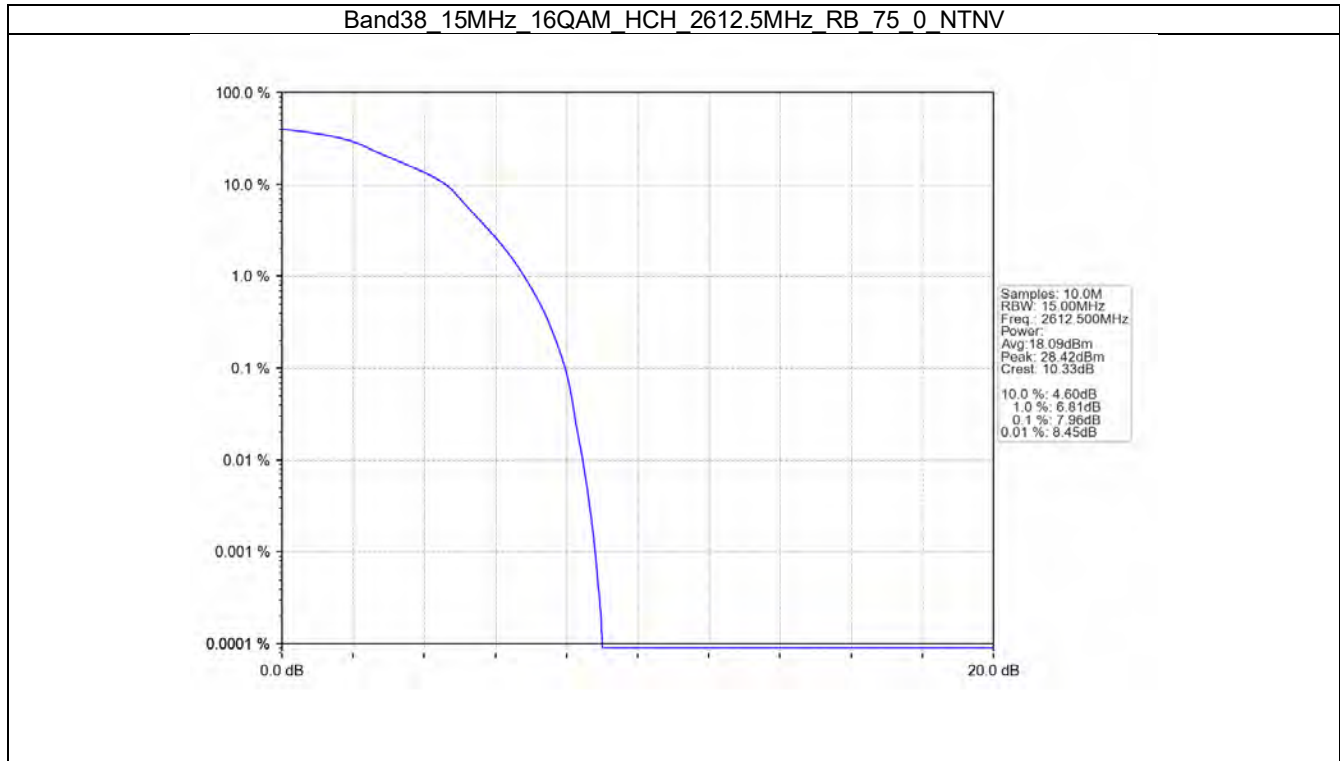


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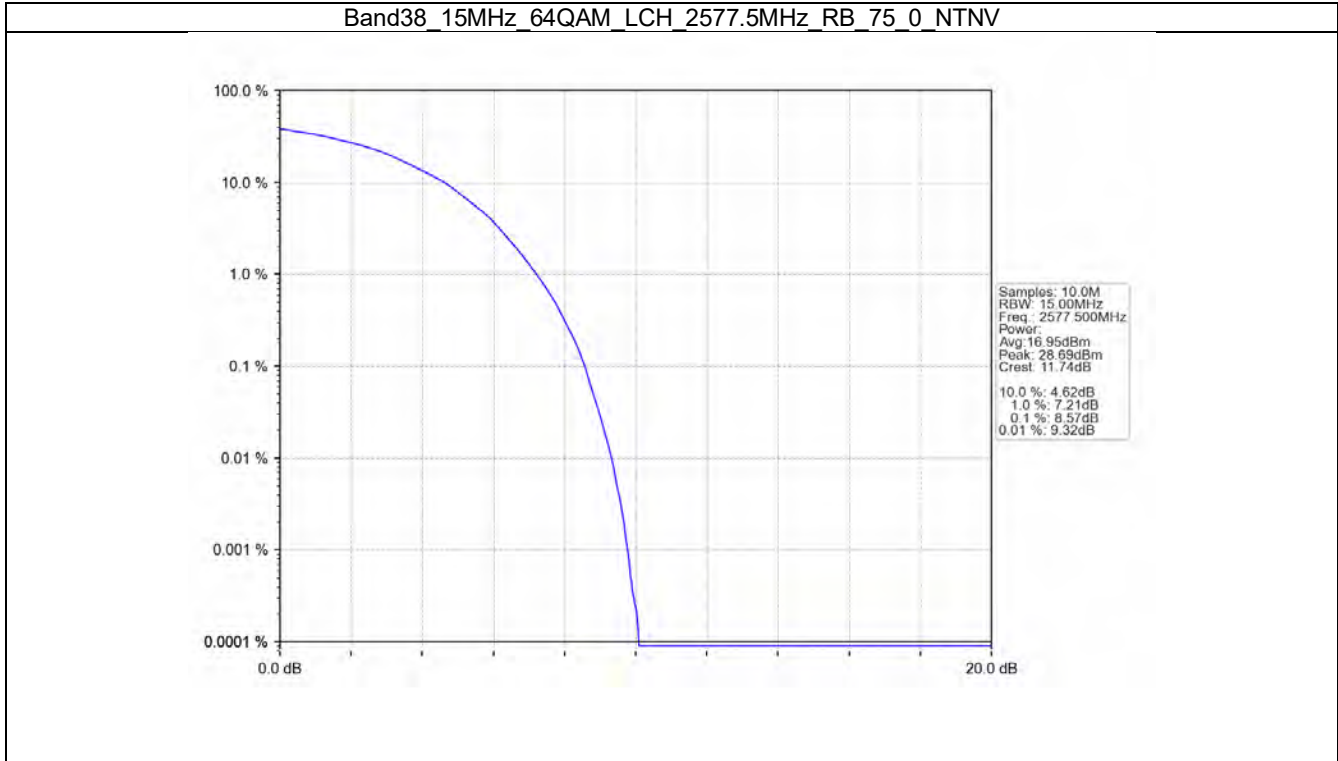


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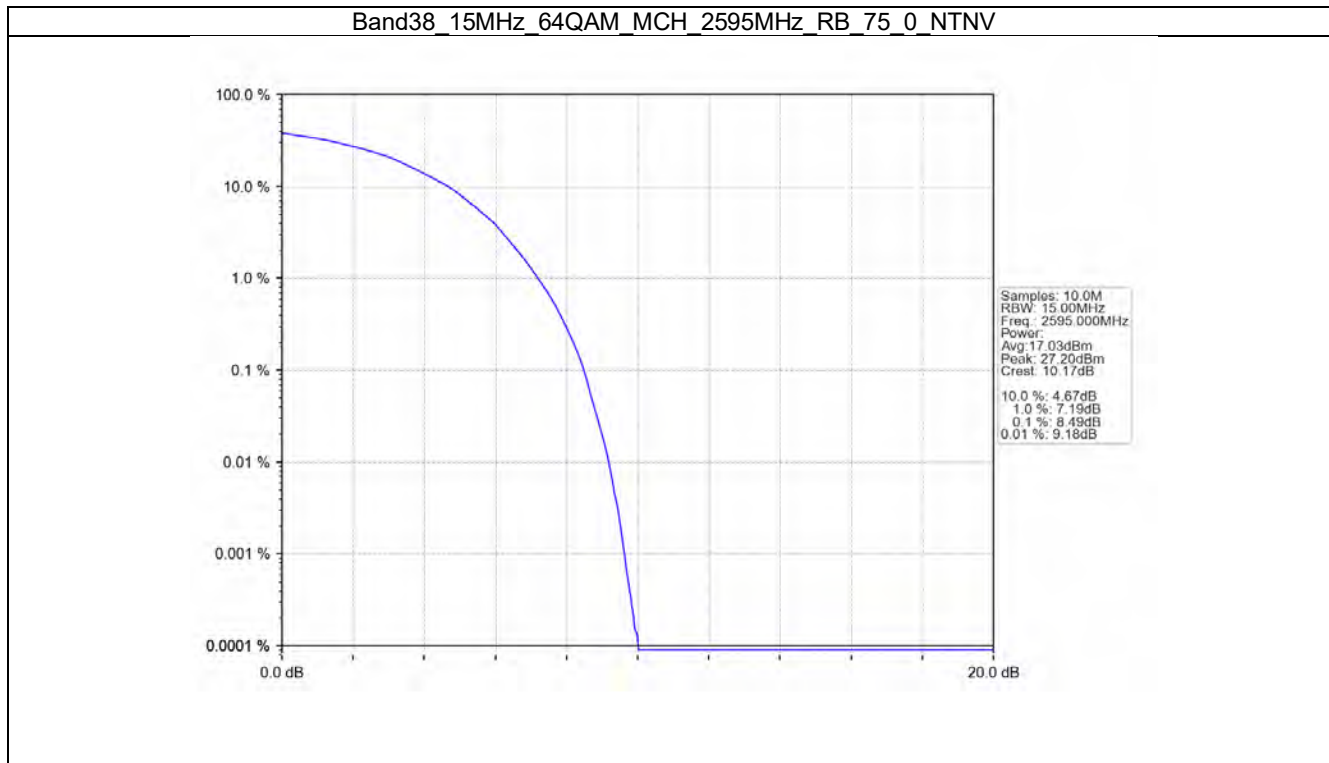
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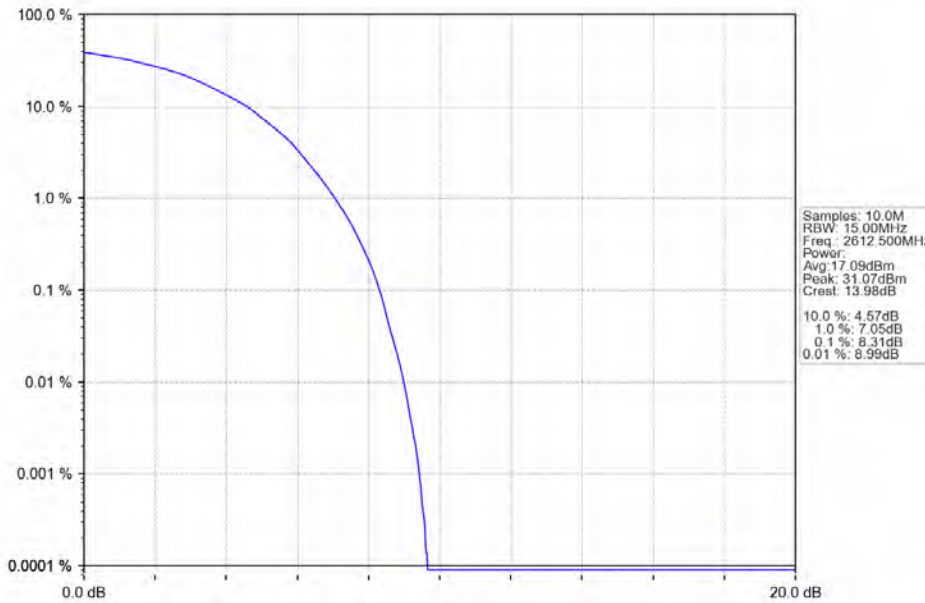
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Band38_15MHz_64QAM_HCH_2612.5MHz_RB_75_0_NTNV



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4.4 B38_20MHz

4.4.1 Test Result

Band: 38 / Bandwidth: 20MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	100	0	7.21	<=13	Pass
	2595	100	0	7.06	<=13	Pass
	2610	100	0	6.96	<=13	Pass
16QAM	2580	100	0	8.17	<=13	Pass
	2595	100	0	7.87	<=13	Pass
	2610	100	0	7.80	<=13	Pass
64QAM	2580	100	0	8.47	<=13	Pass
	2595	100	0	8.40	<=13	Pass
	2610	100	0	8.21	<=13	Pass



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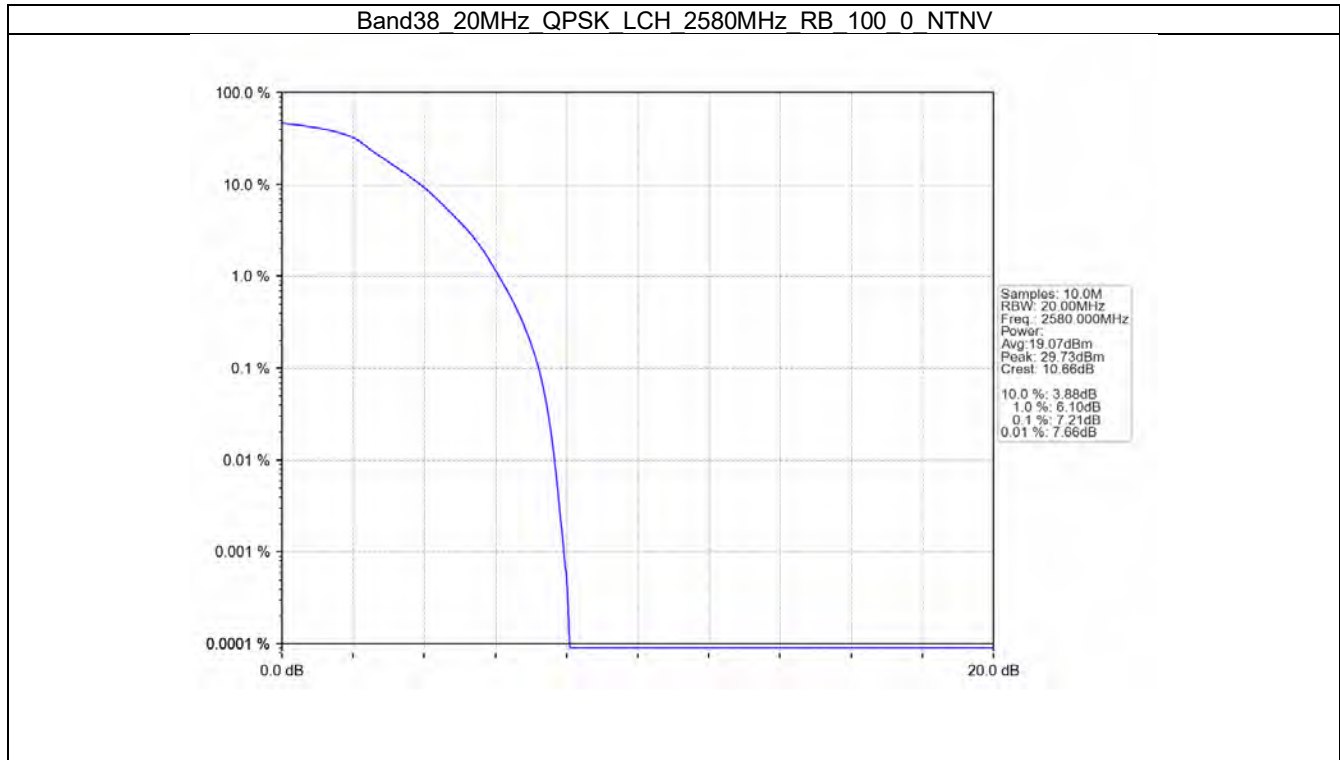
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4.4.2 Test Graph



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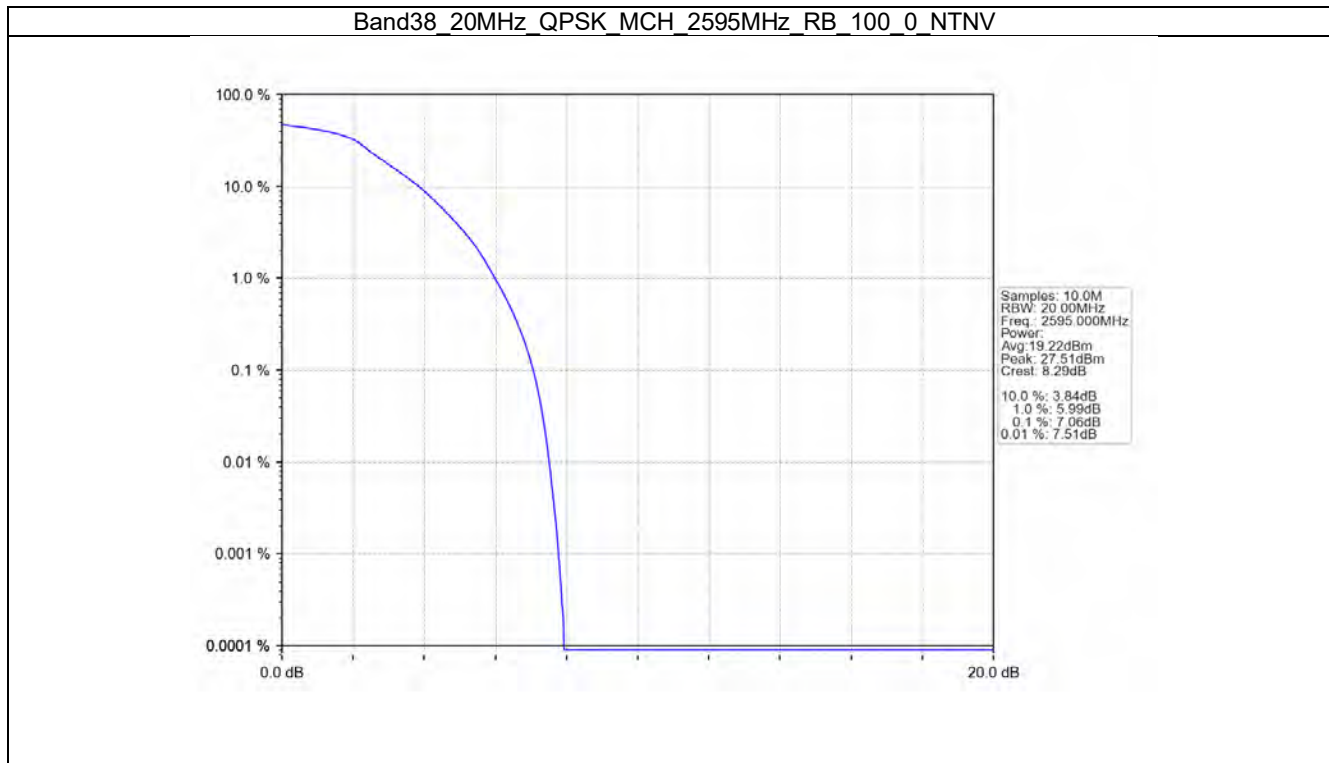
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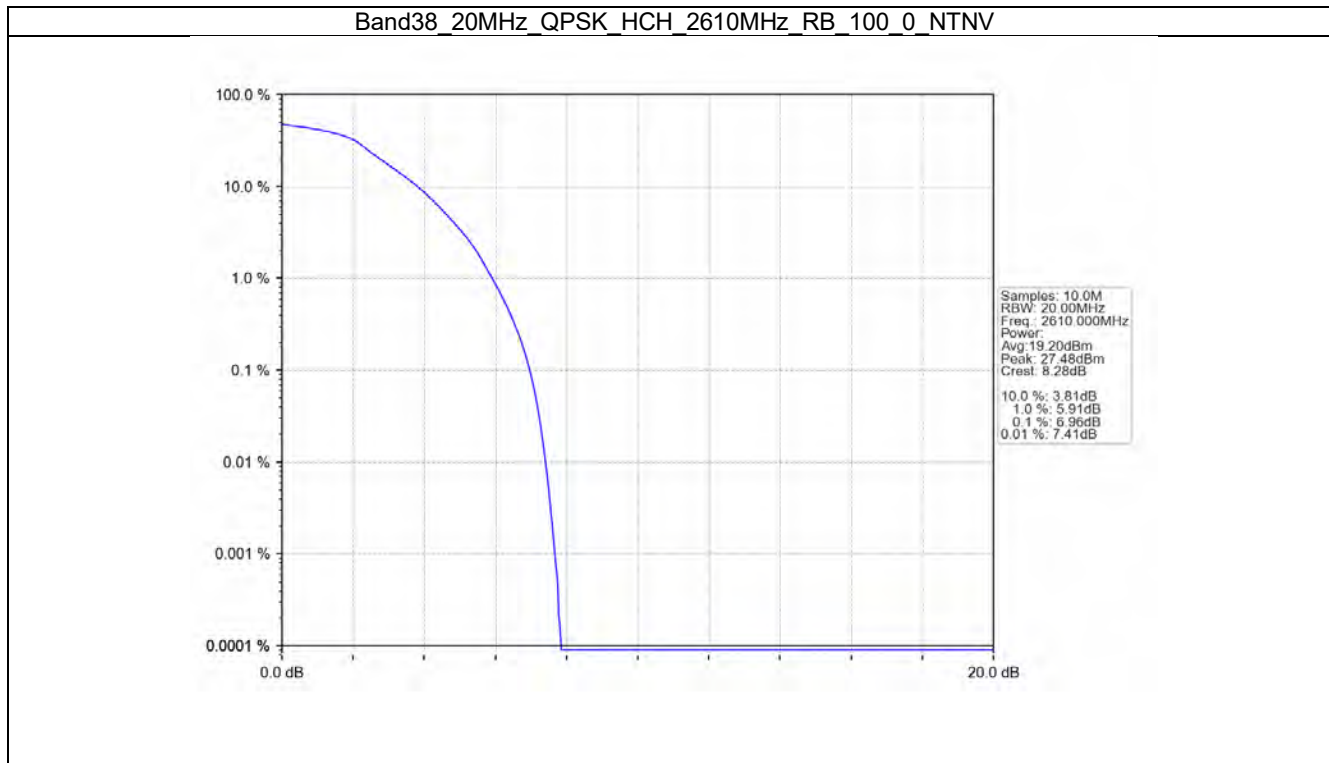
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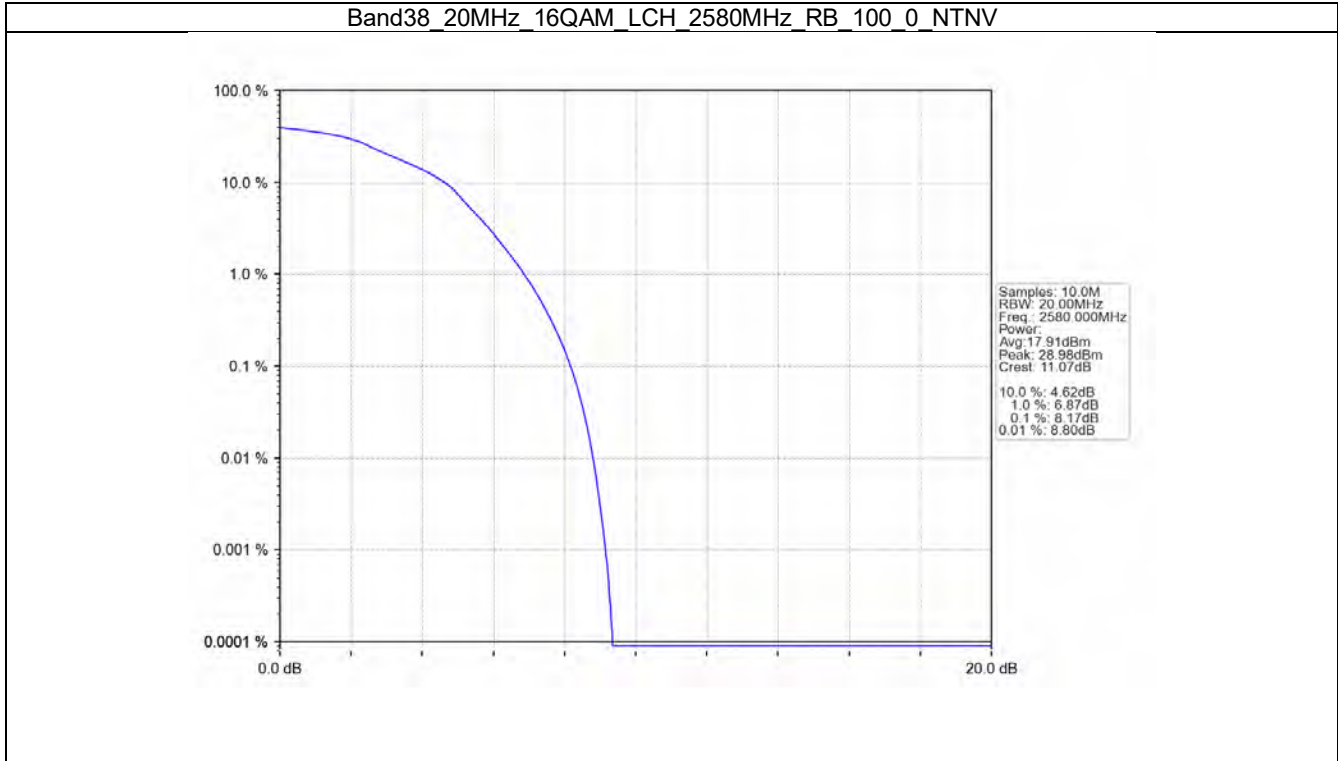


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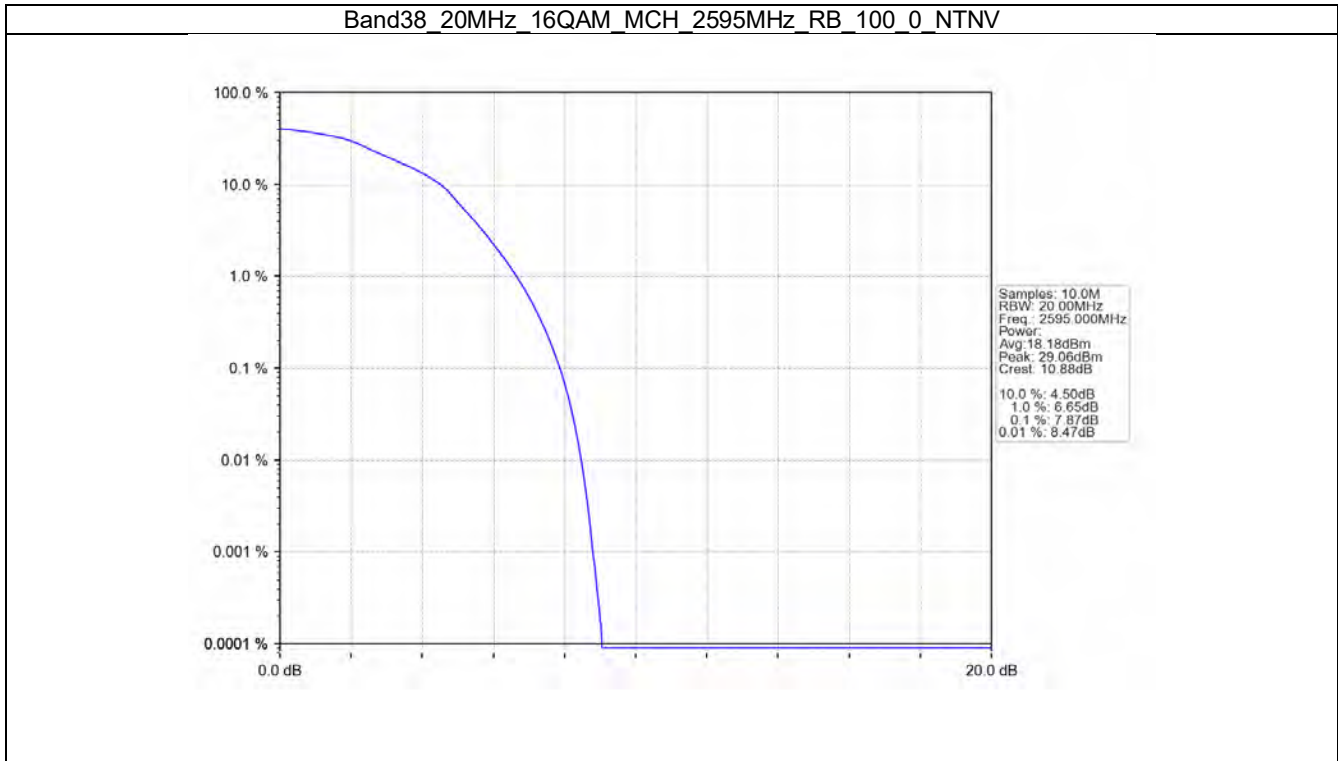


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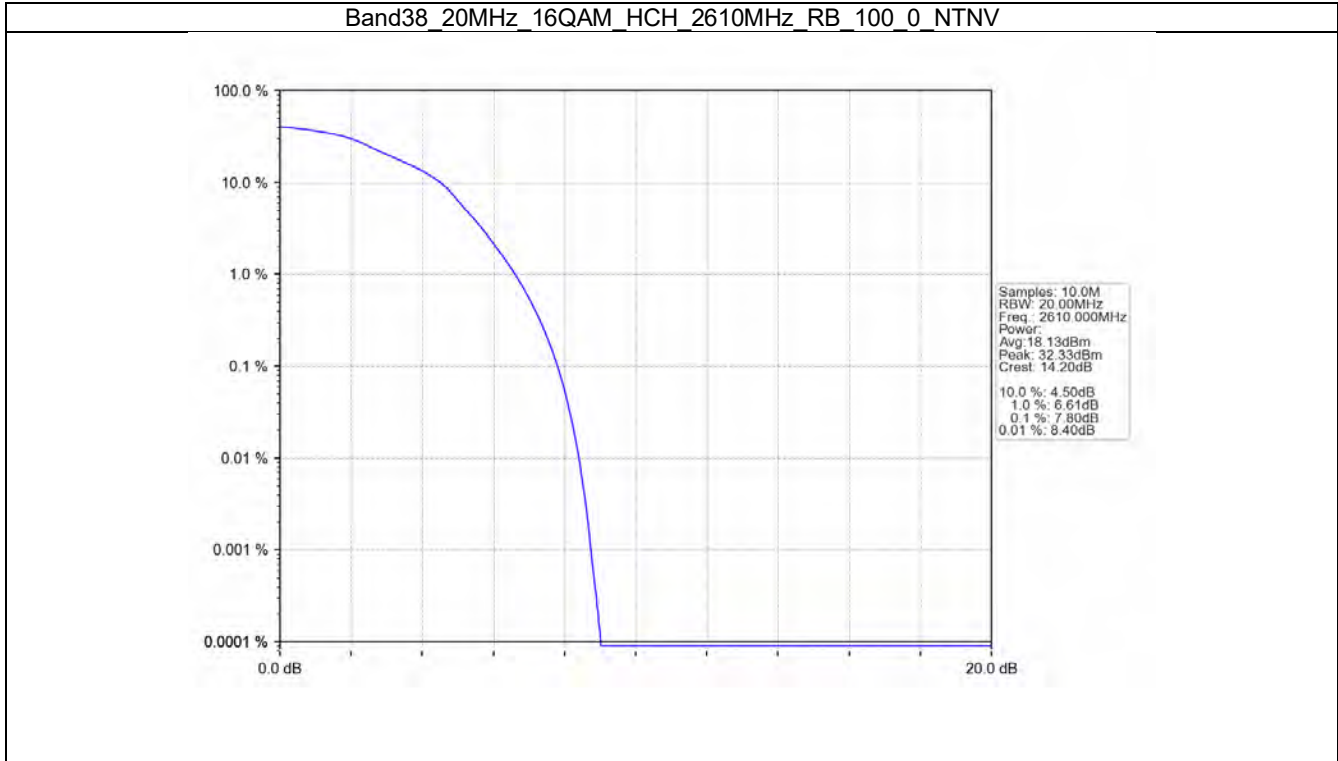


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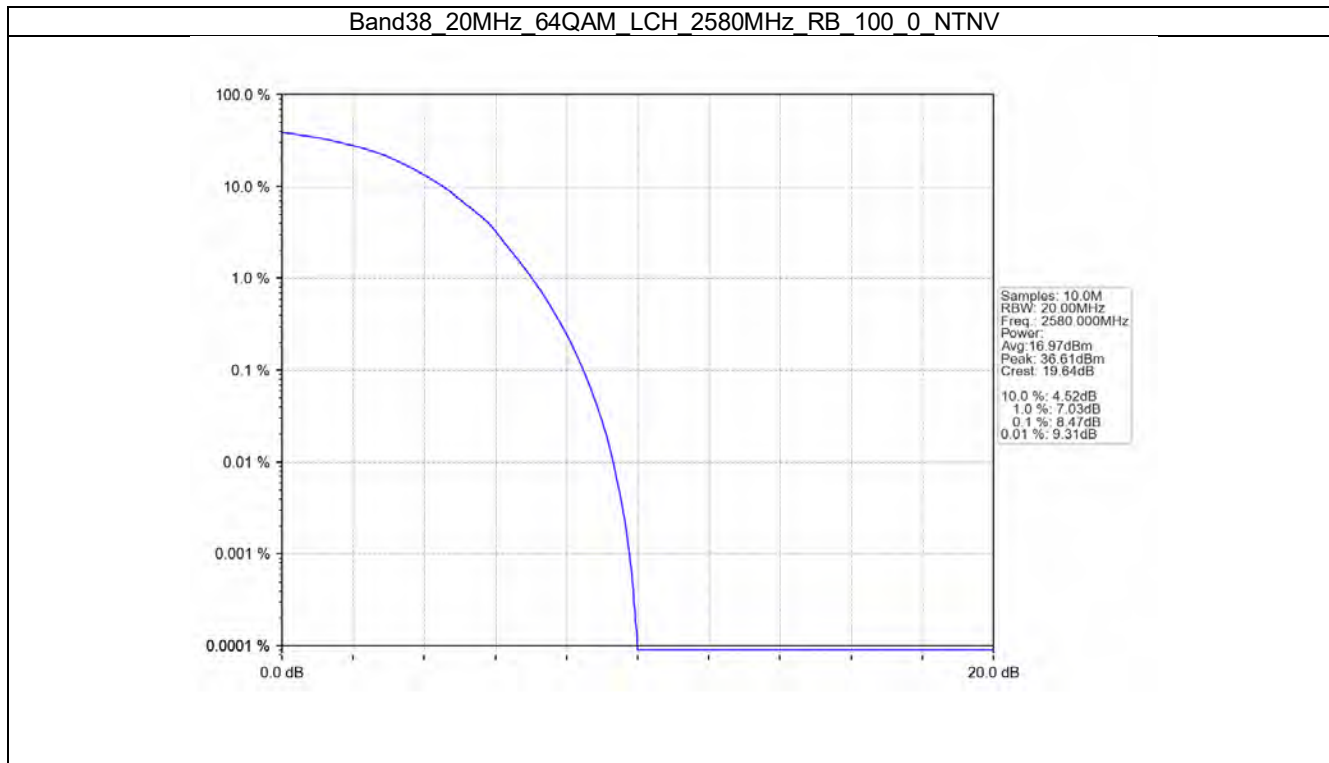
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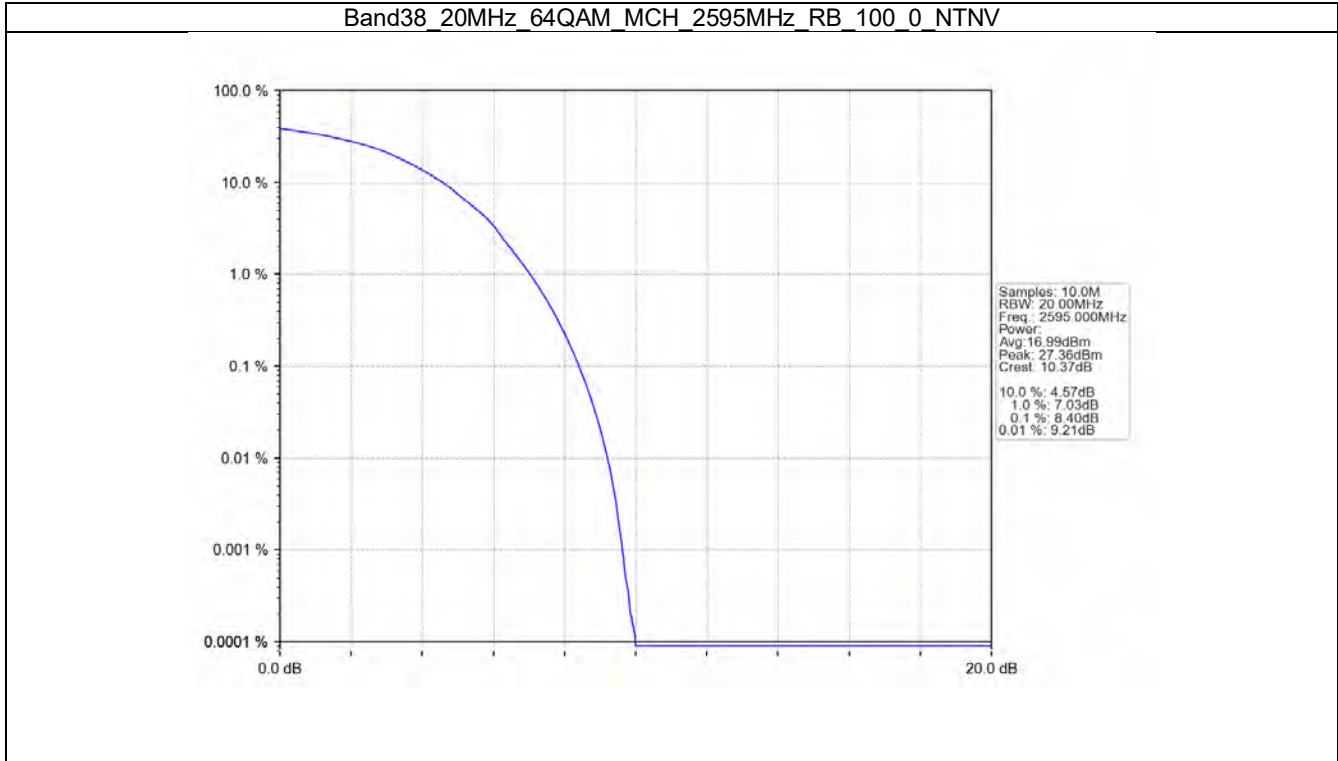


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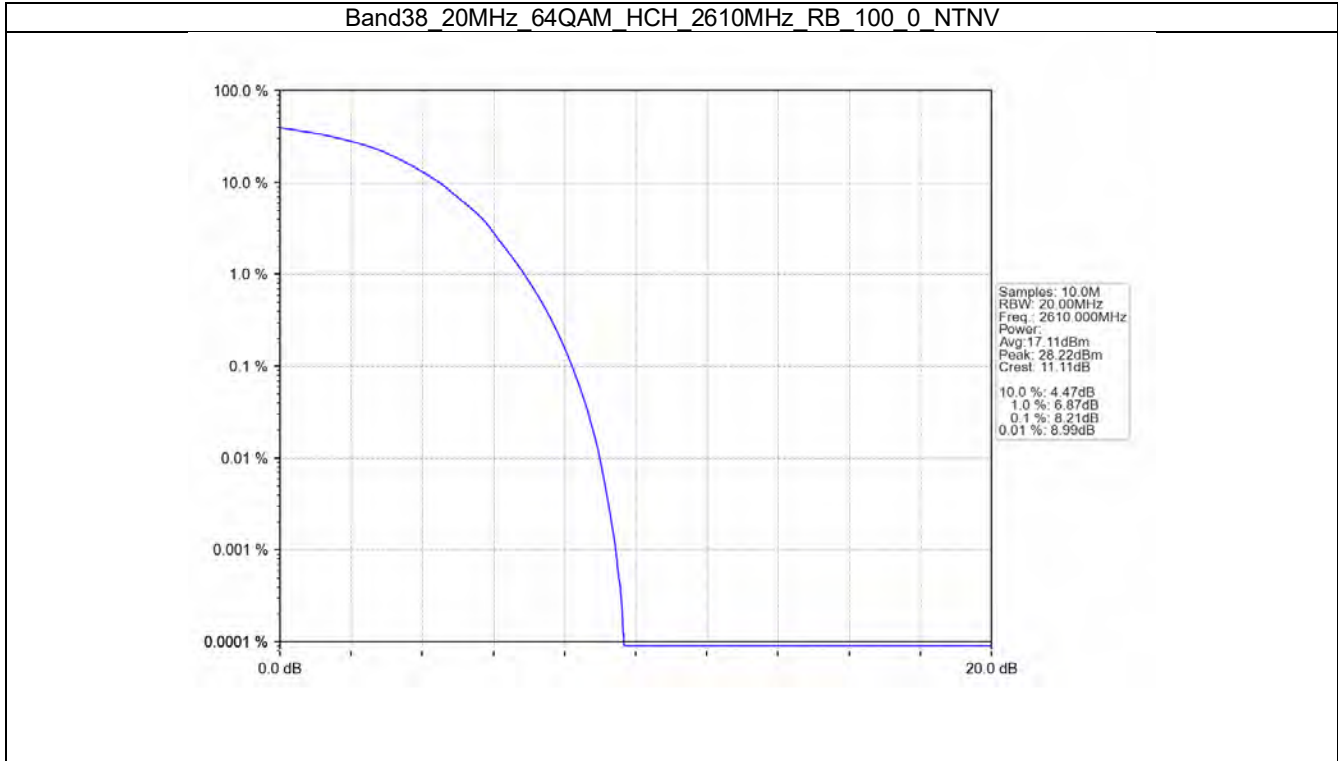


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5. Spurious Emission & Band Edges

5.1 B38_5MHz

5.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
		2617.5	1	0	Refer To Test Graph	
				24	Refer To Test Graph	
			25	0	Refer To Test Graph	
16QAM	2572.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
		2617.5	1	0	Refer To Test Graph	
				24	Refer To Test Graph	
			25	0	Refer To Test Graph	
64QAM	2572.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
		2617.5	1	0	Refer To Test Graph	
				24	Refer To Test Graph	
			25	0	Refer To Test Graph	



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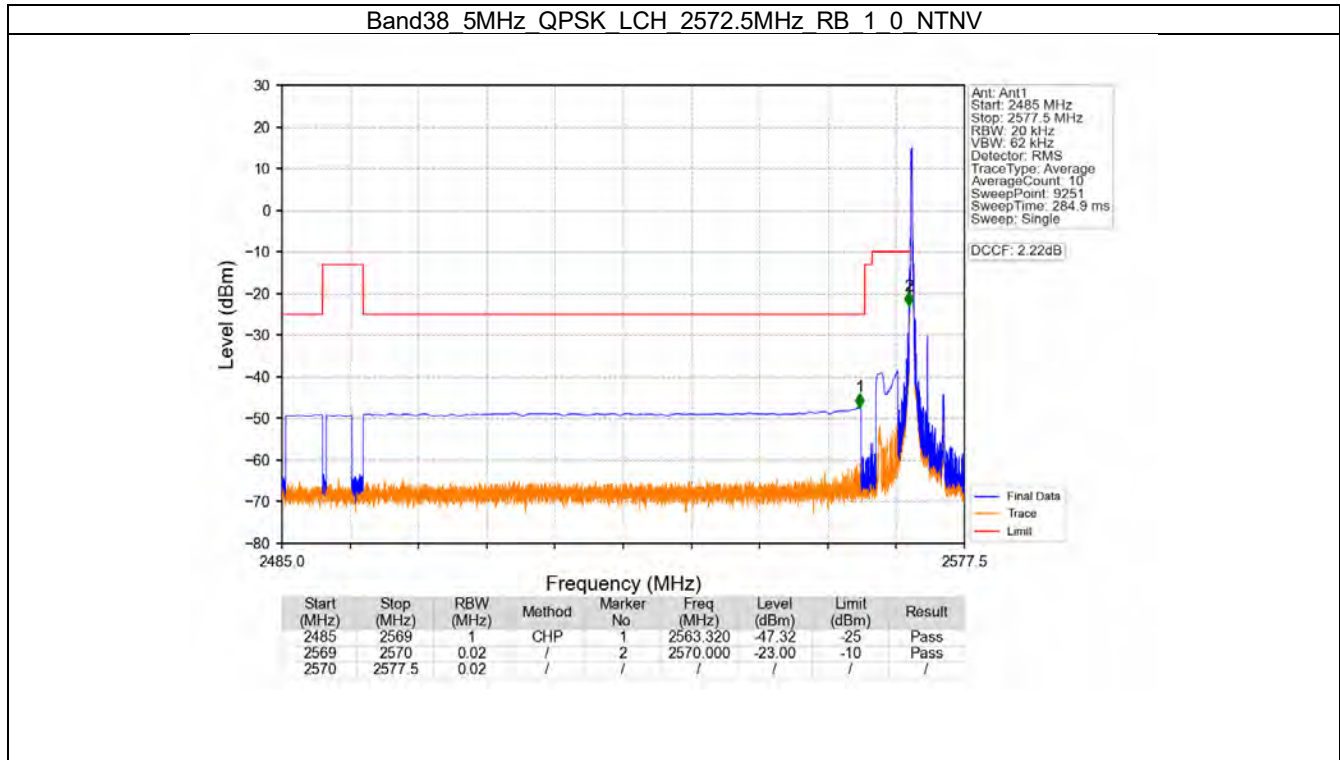
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5.1.2 Test Graph



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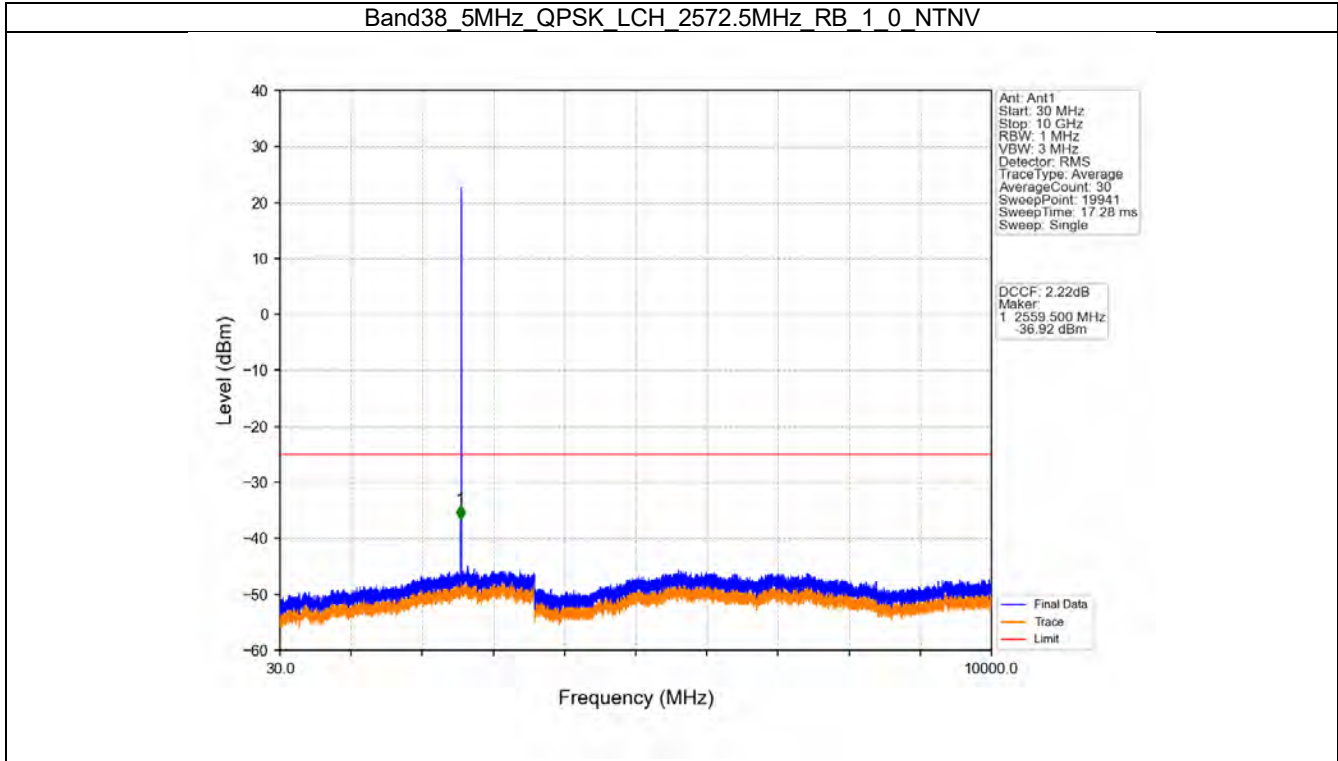


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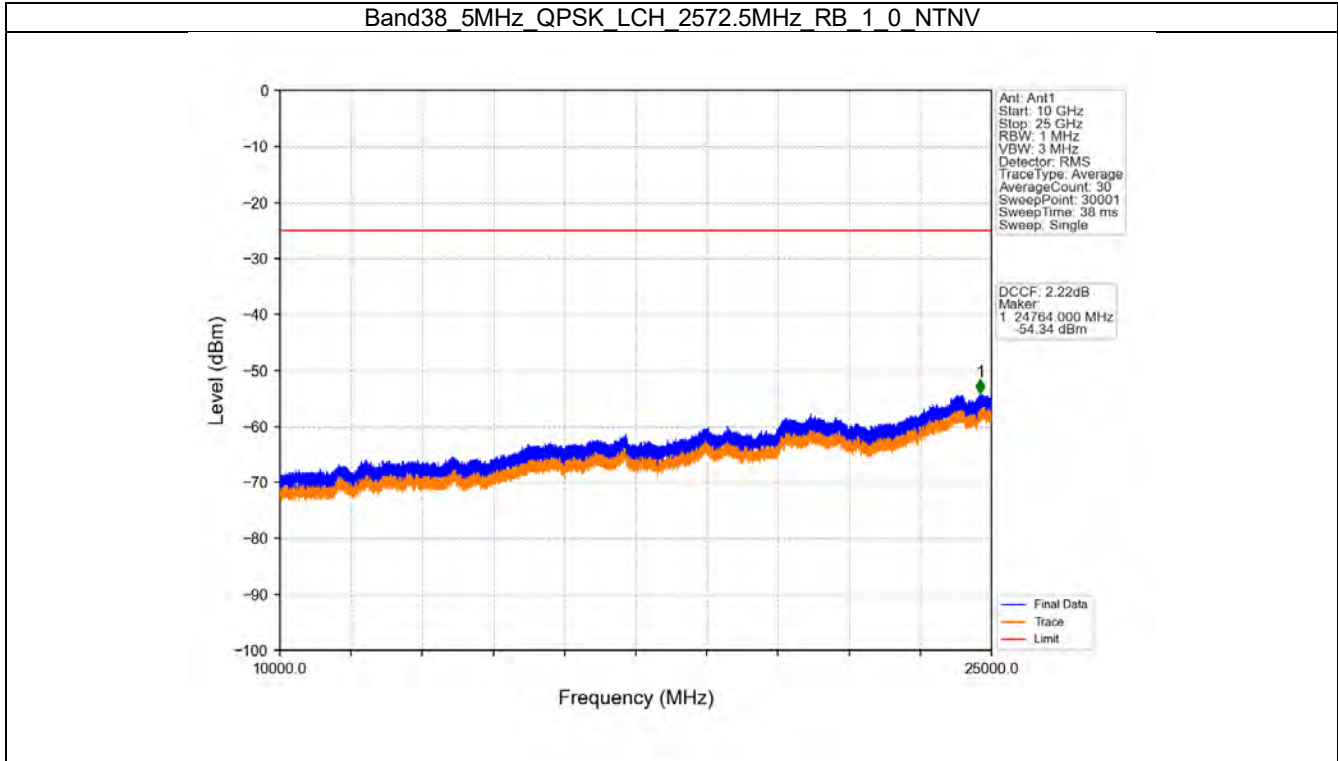


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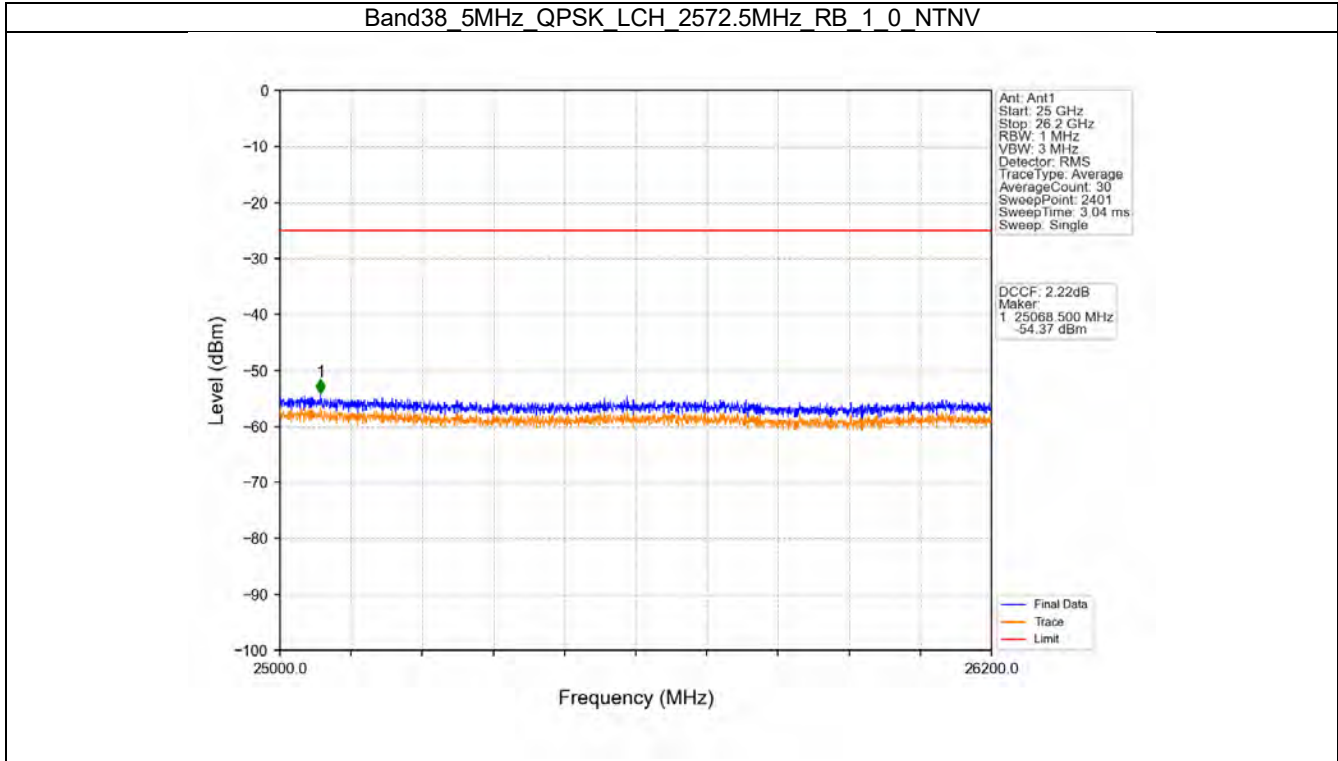


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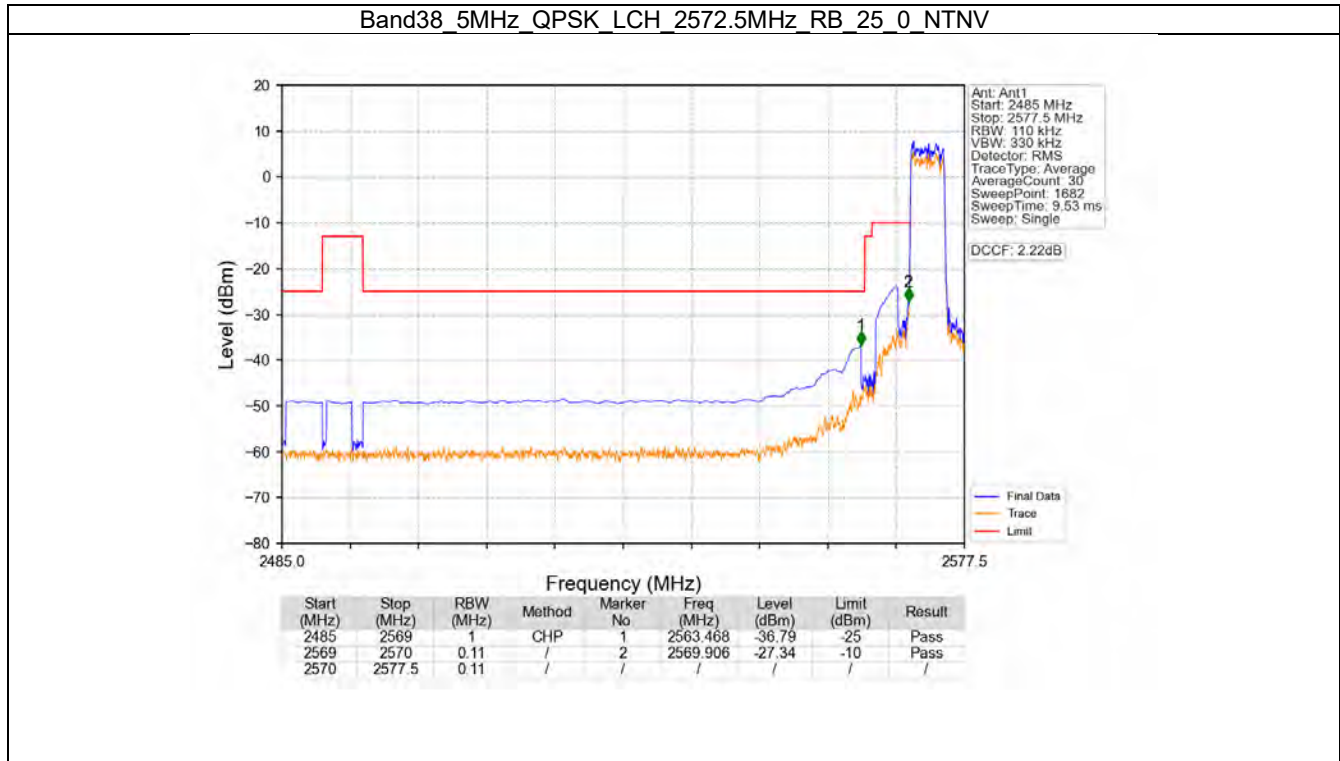


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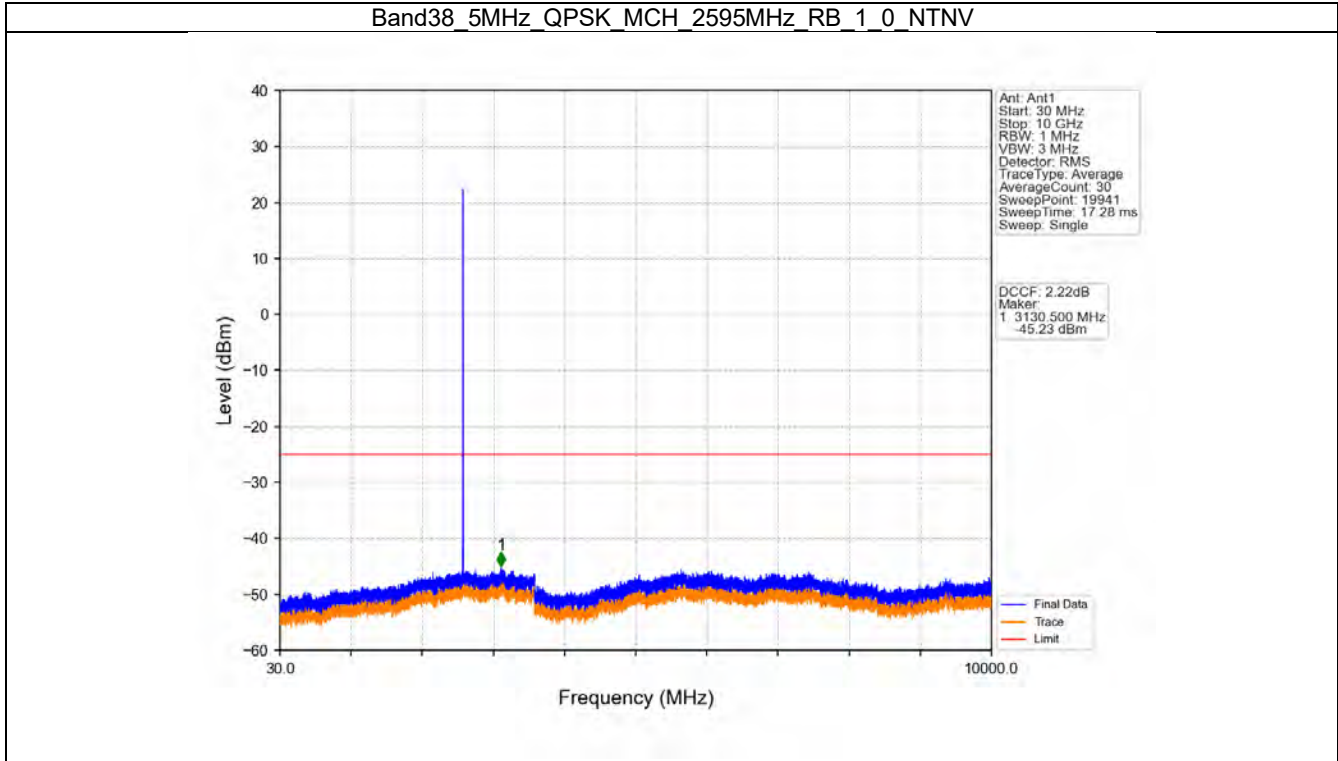


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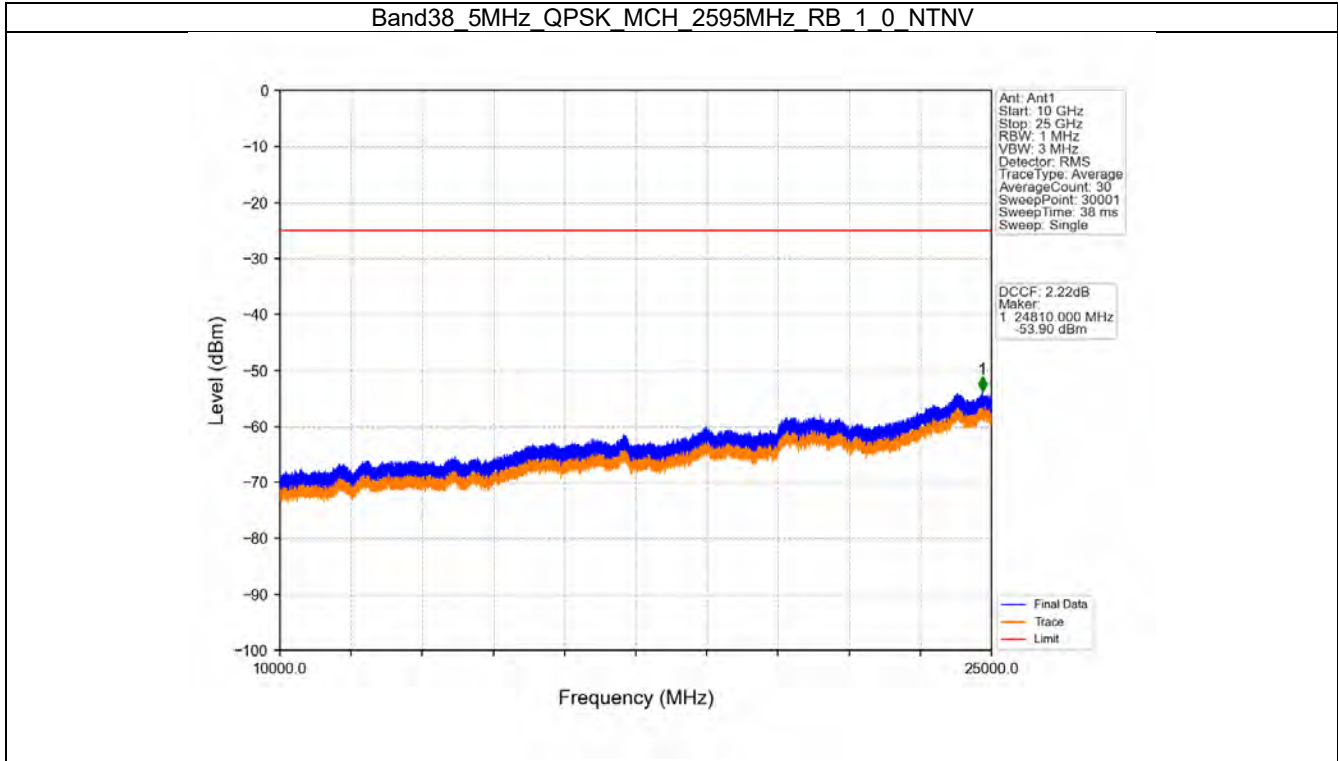


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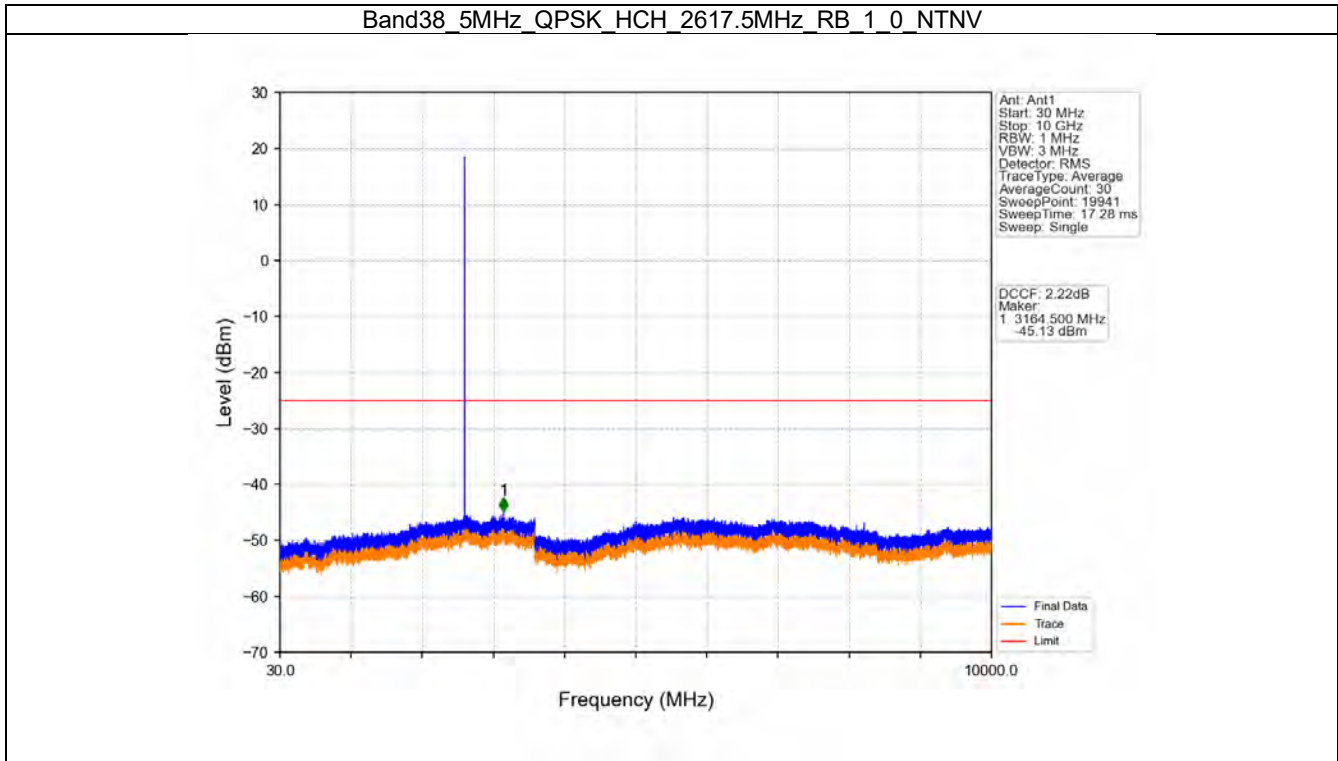


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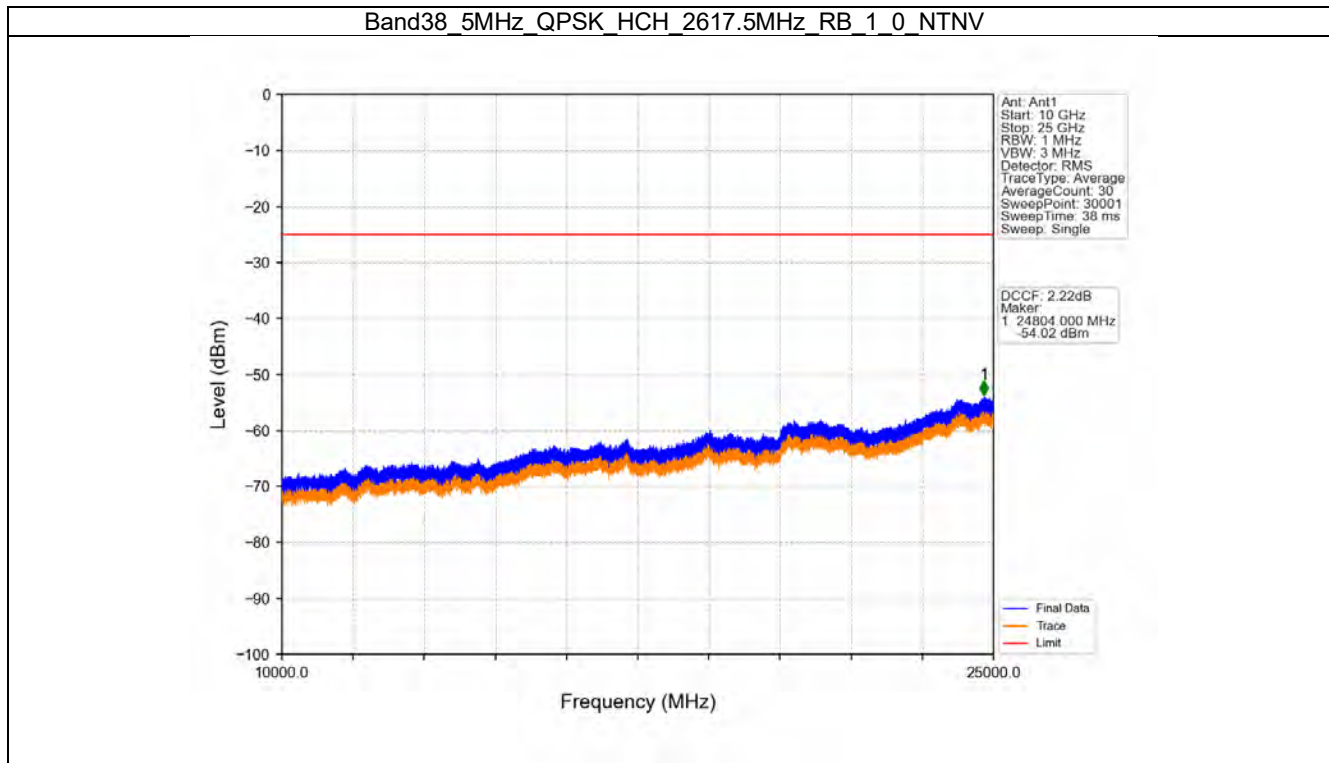
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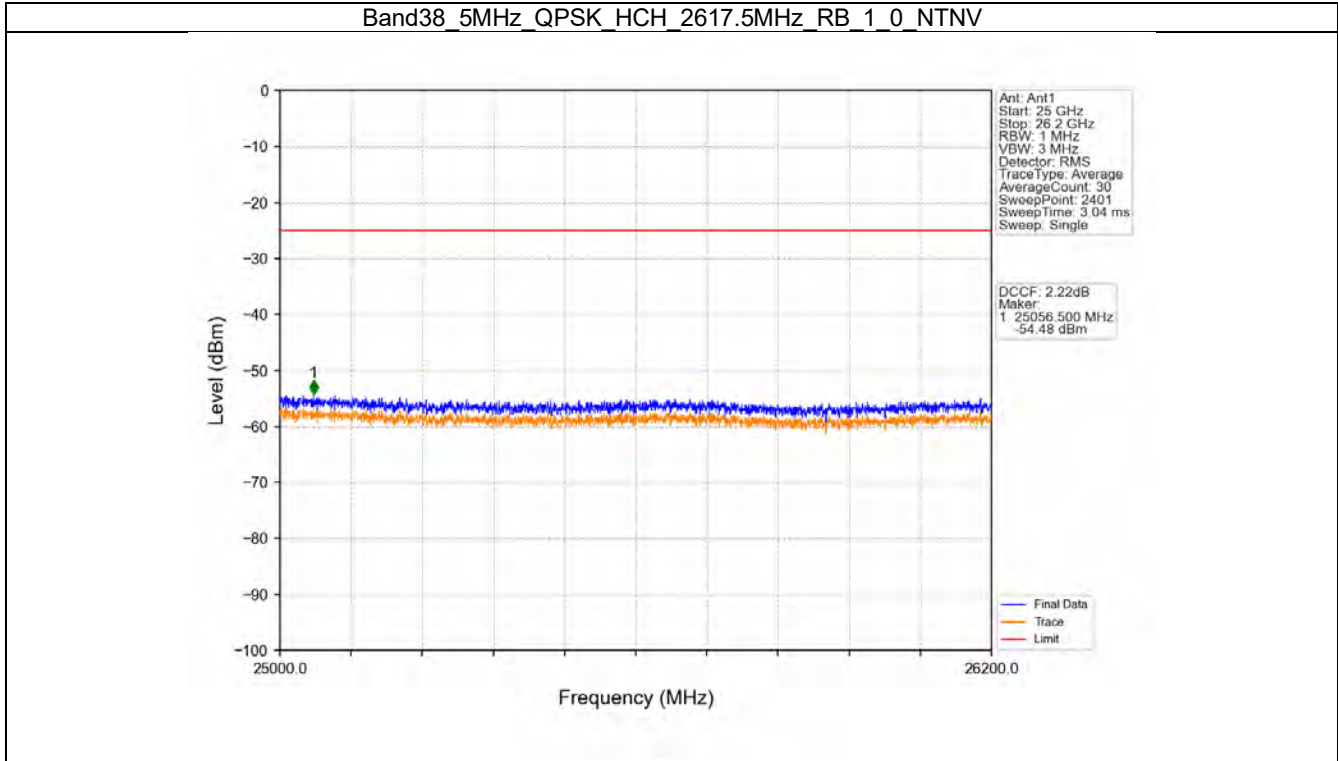


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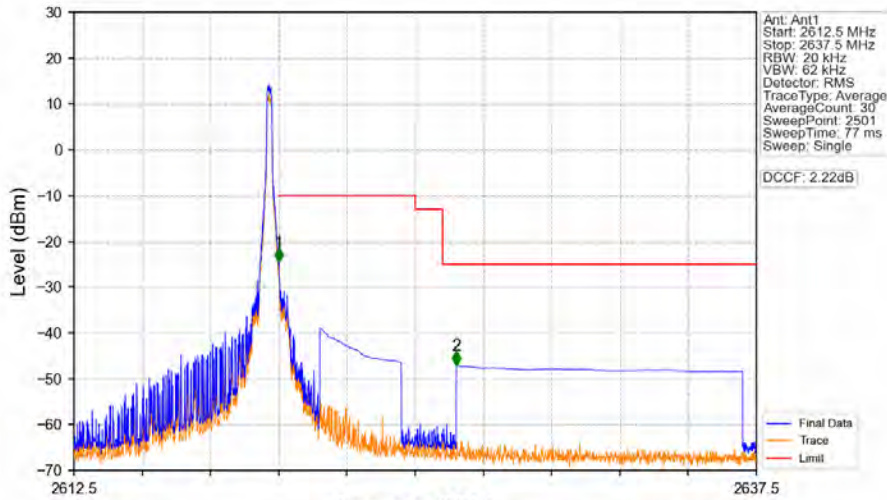
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Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.02	/	/	/	/	/	/
2620	2621	0.02	/	1	2620.000	-24.54	-10	Pass
2621	2637.5	1	CHP	2	2626.510	-47.13	-25	Pass



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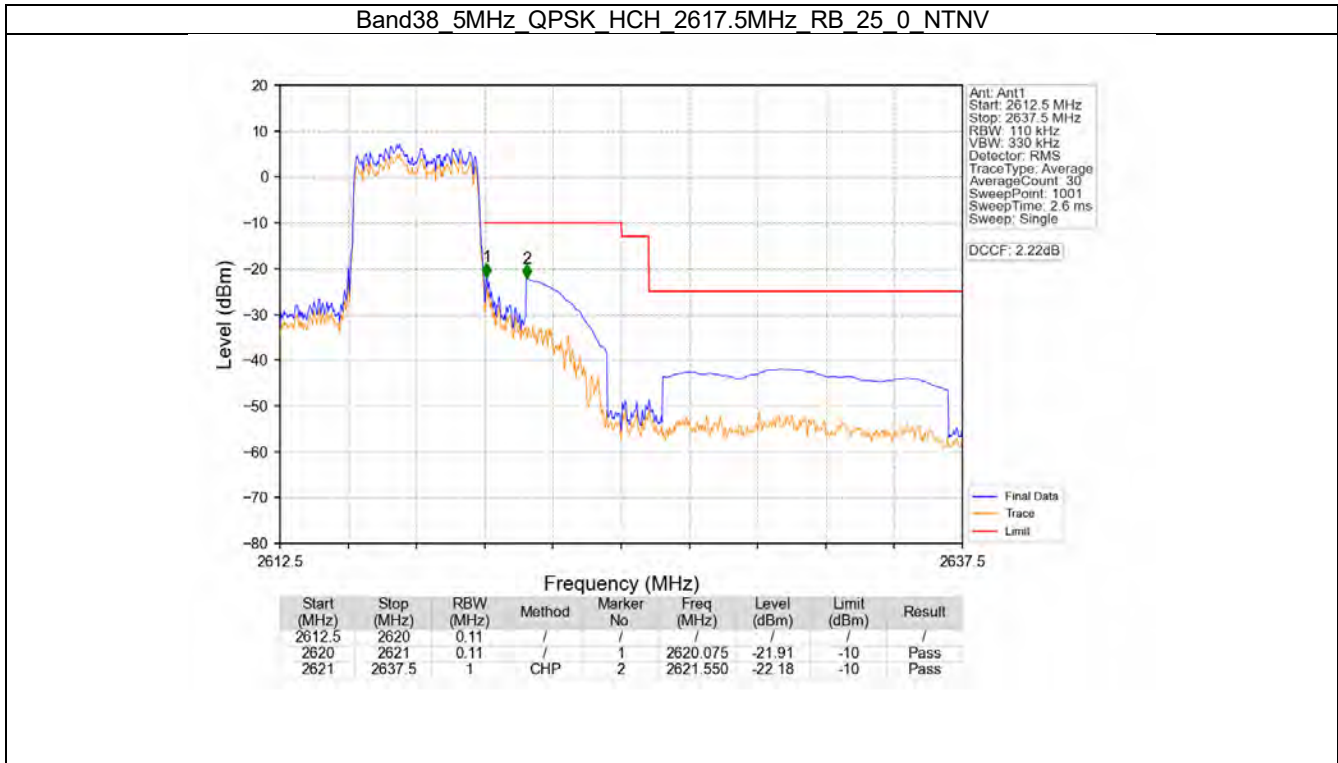


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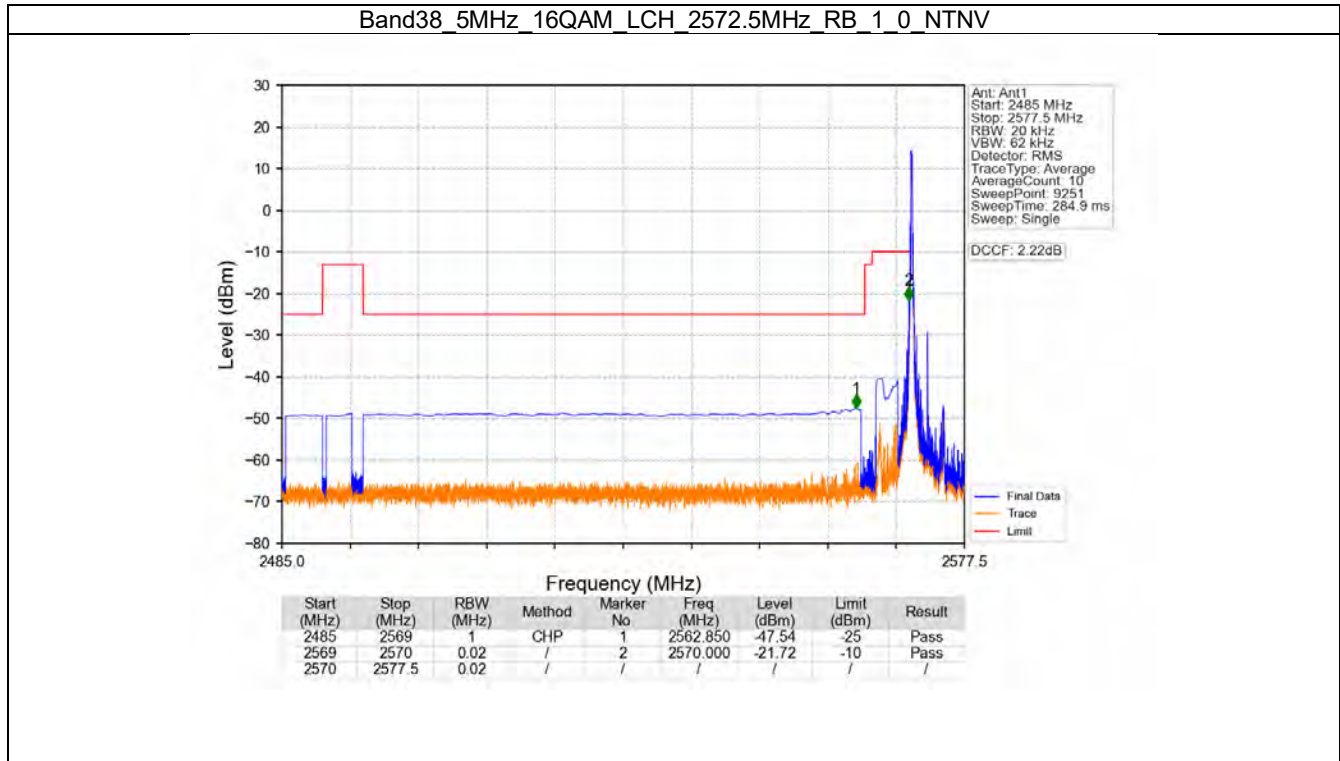


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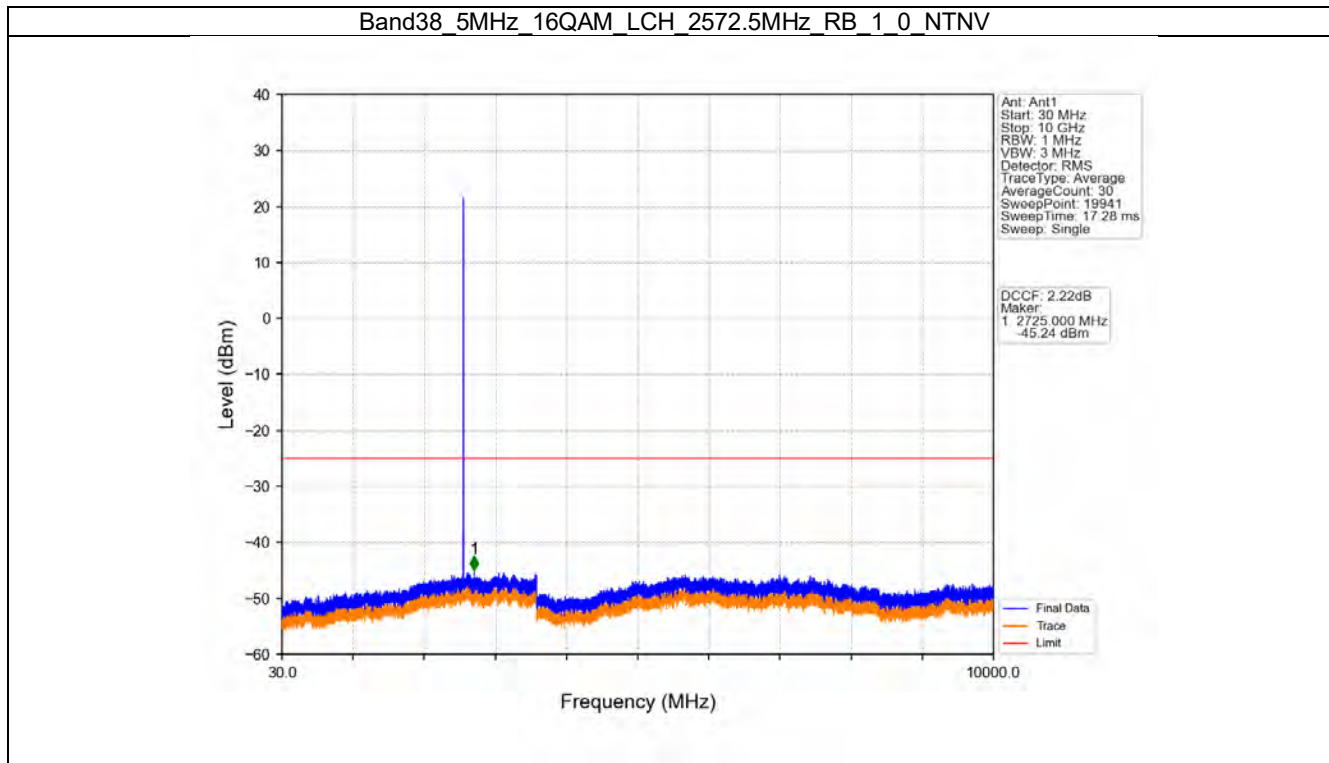
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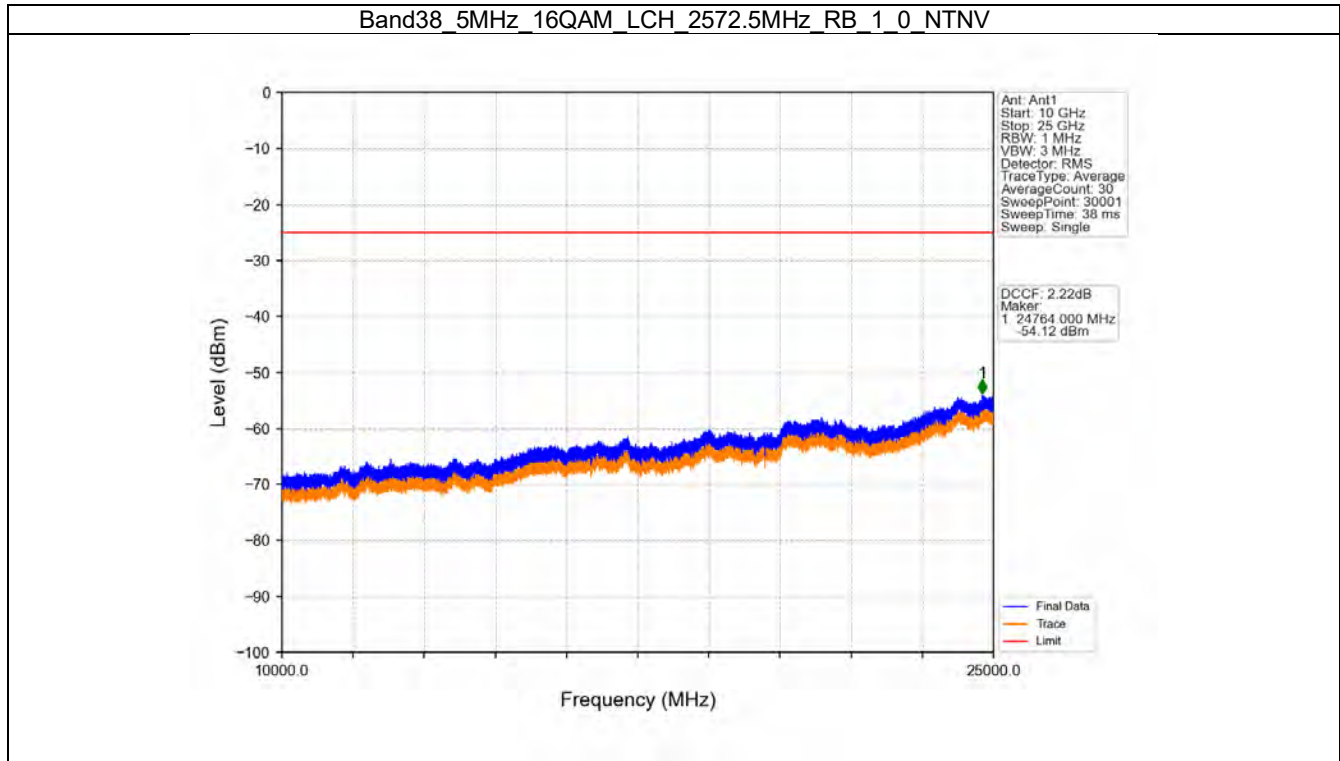


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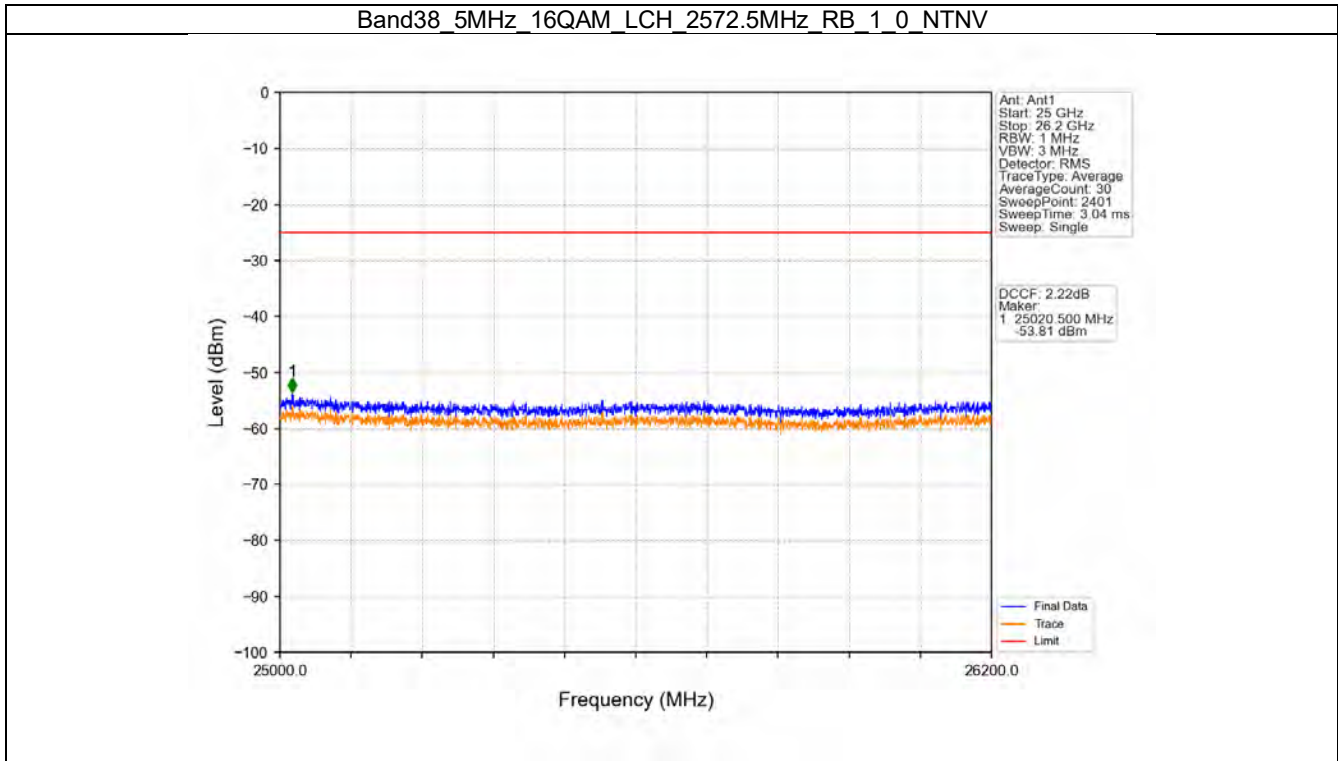


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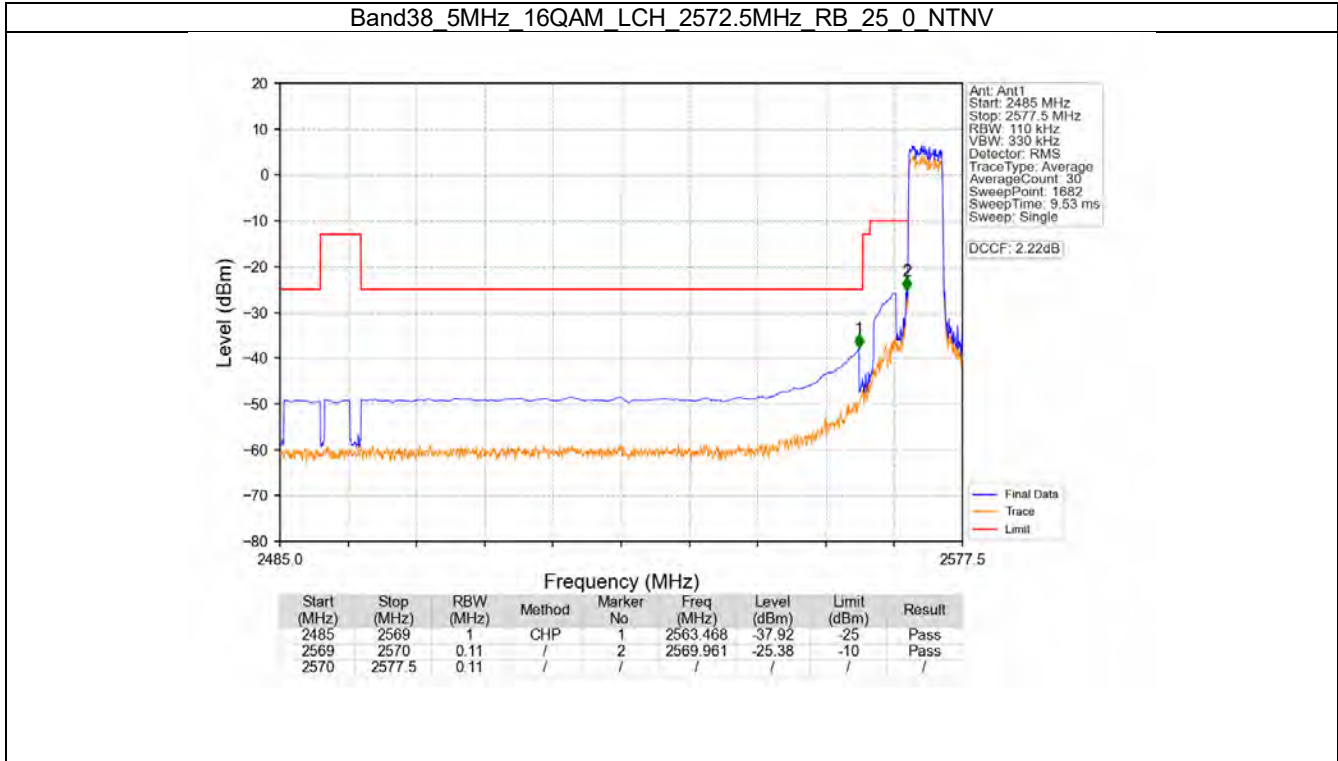


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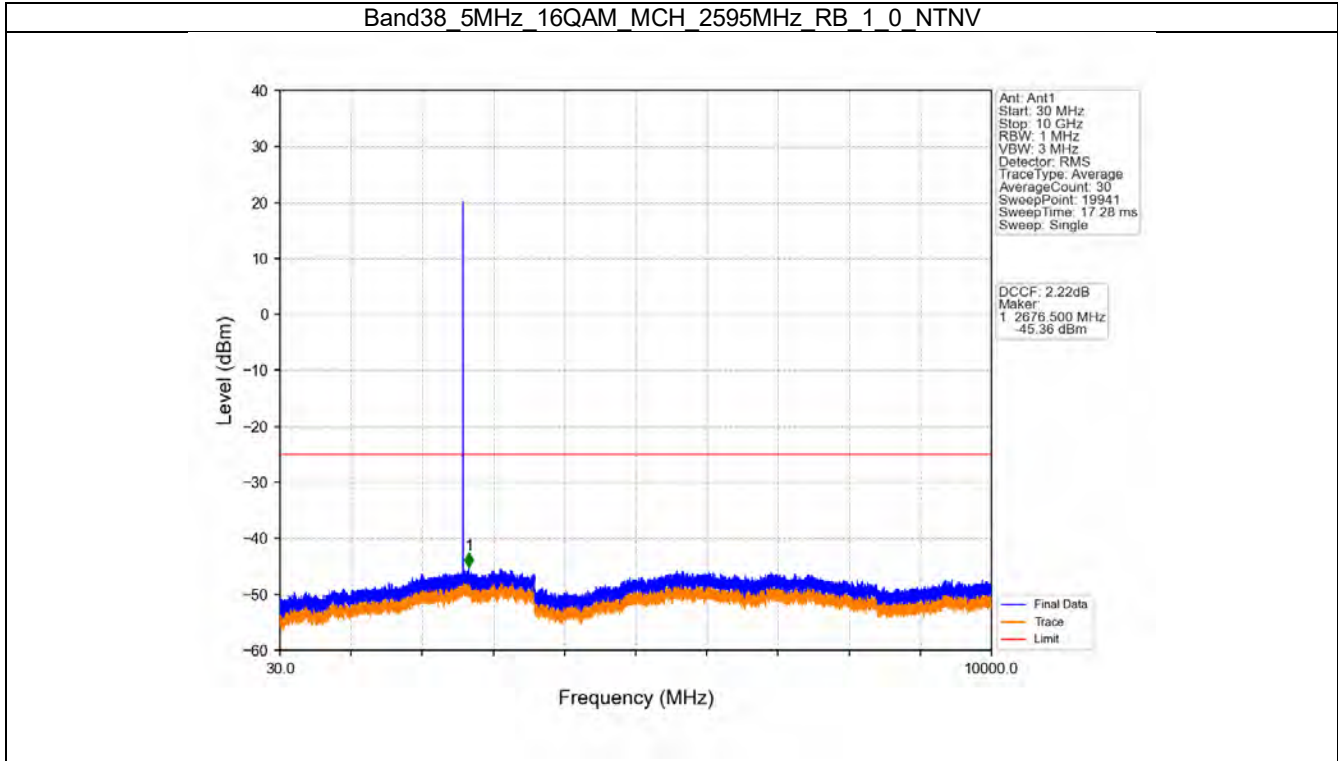


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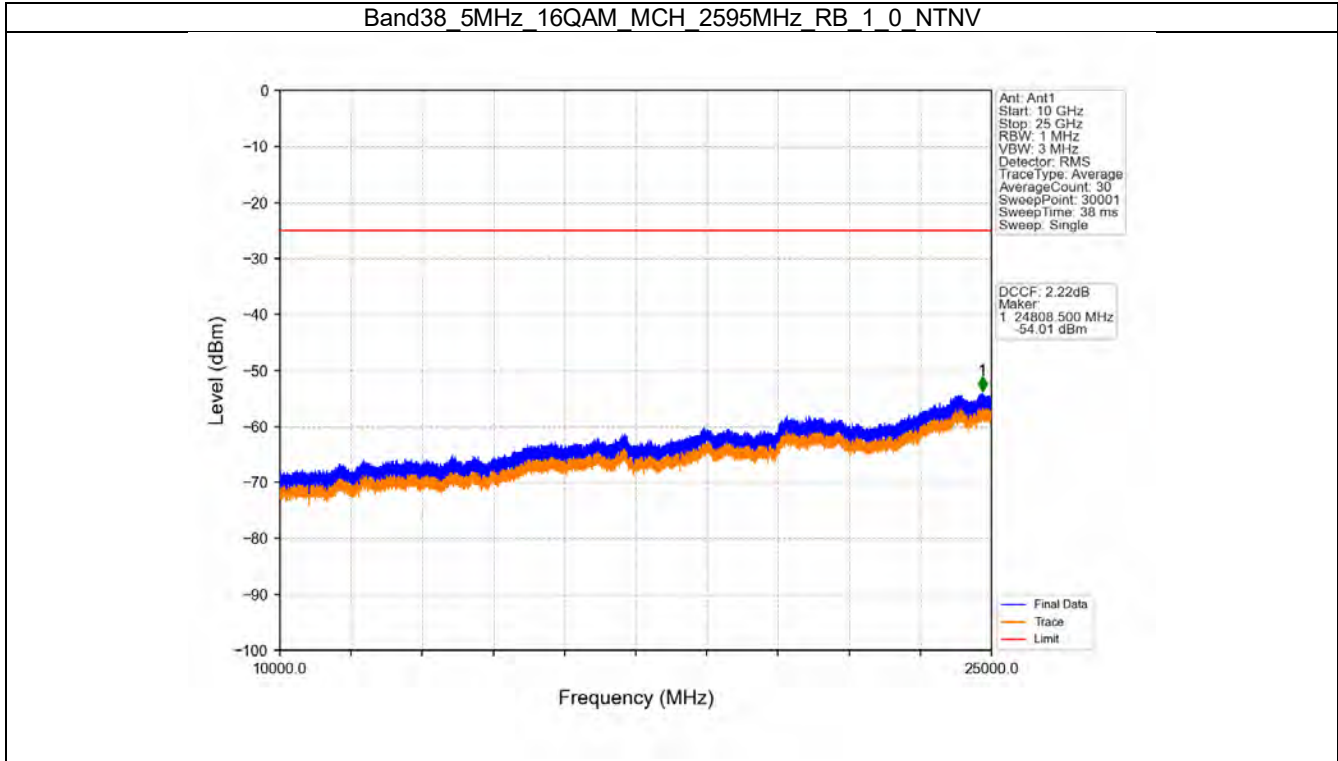


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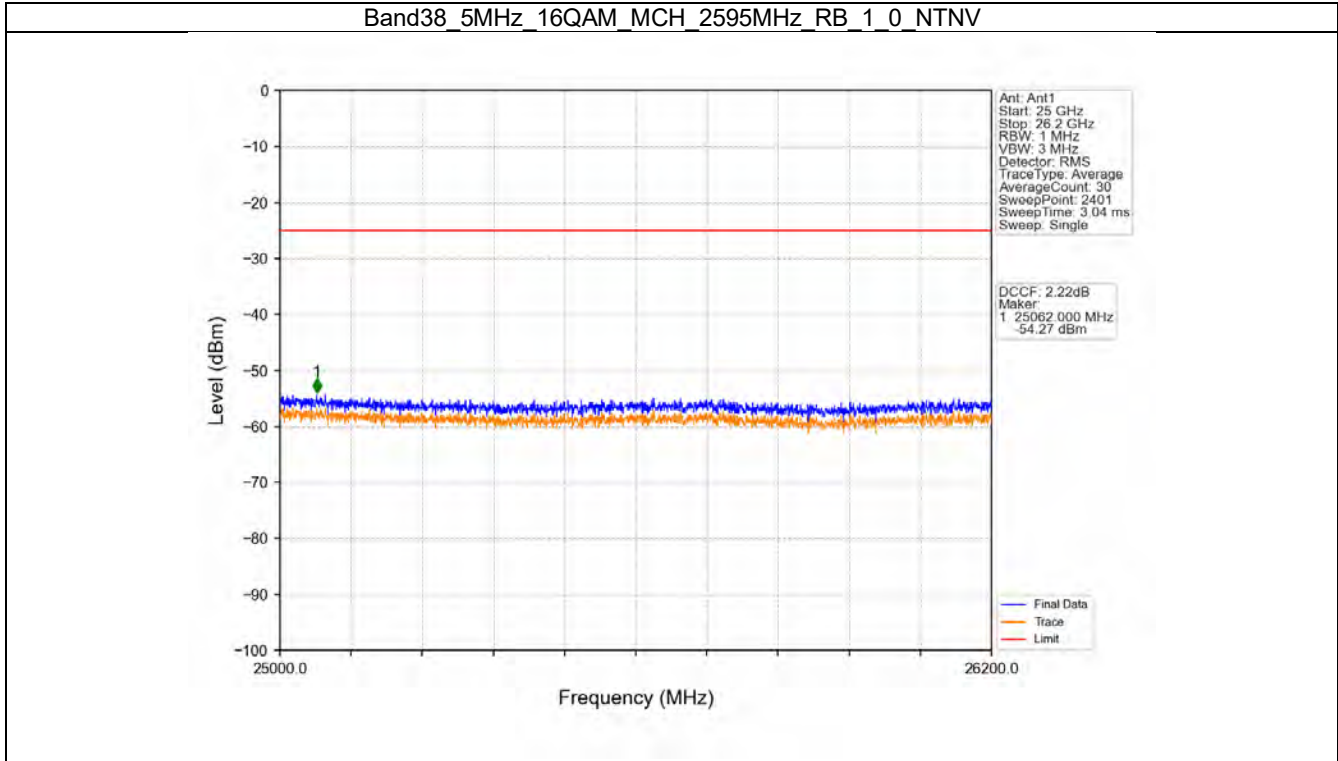


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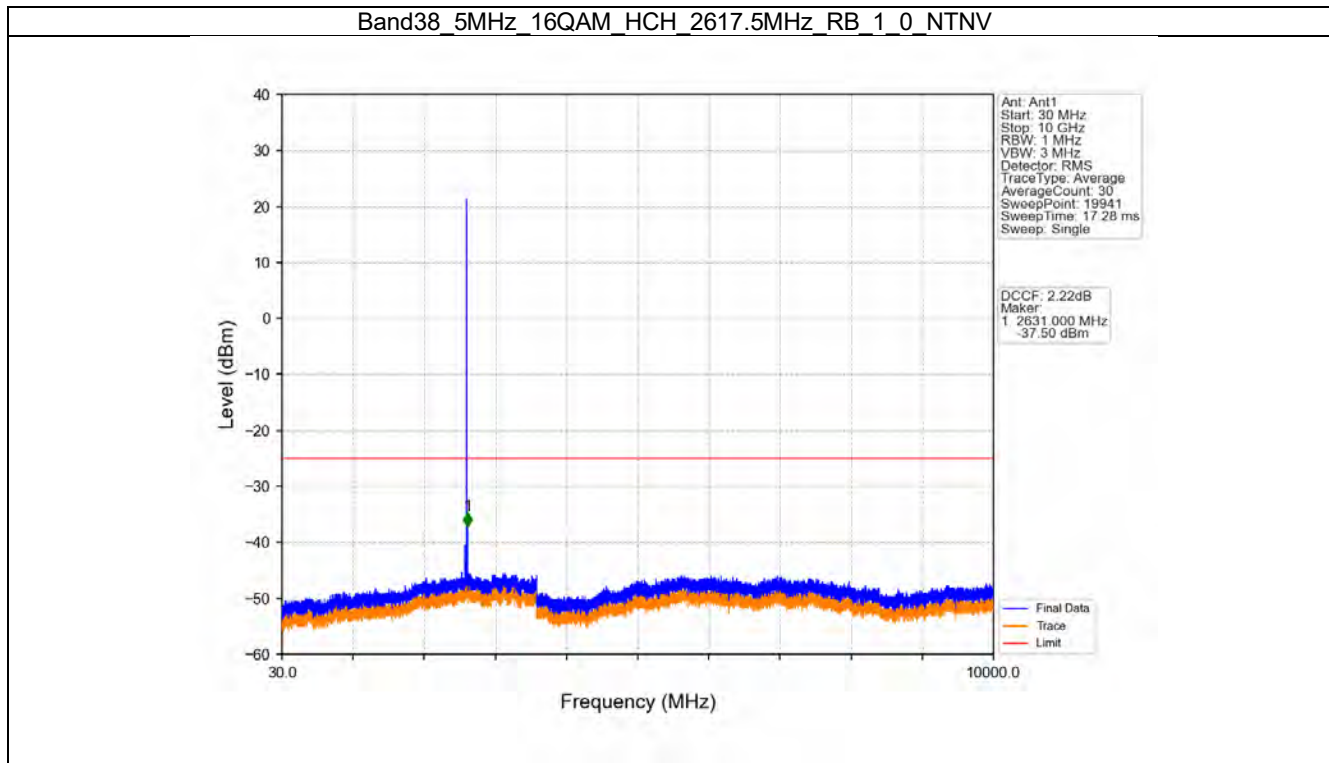
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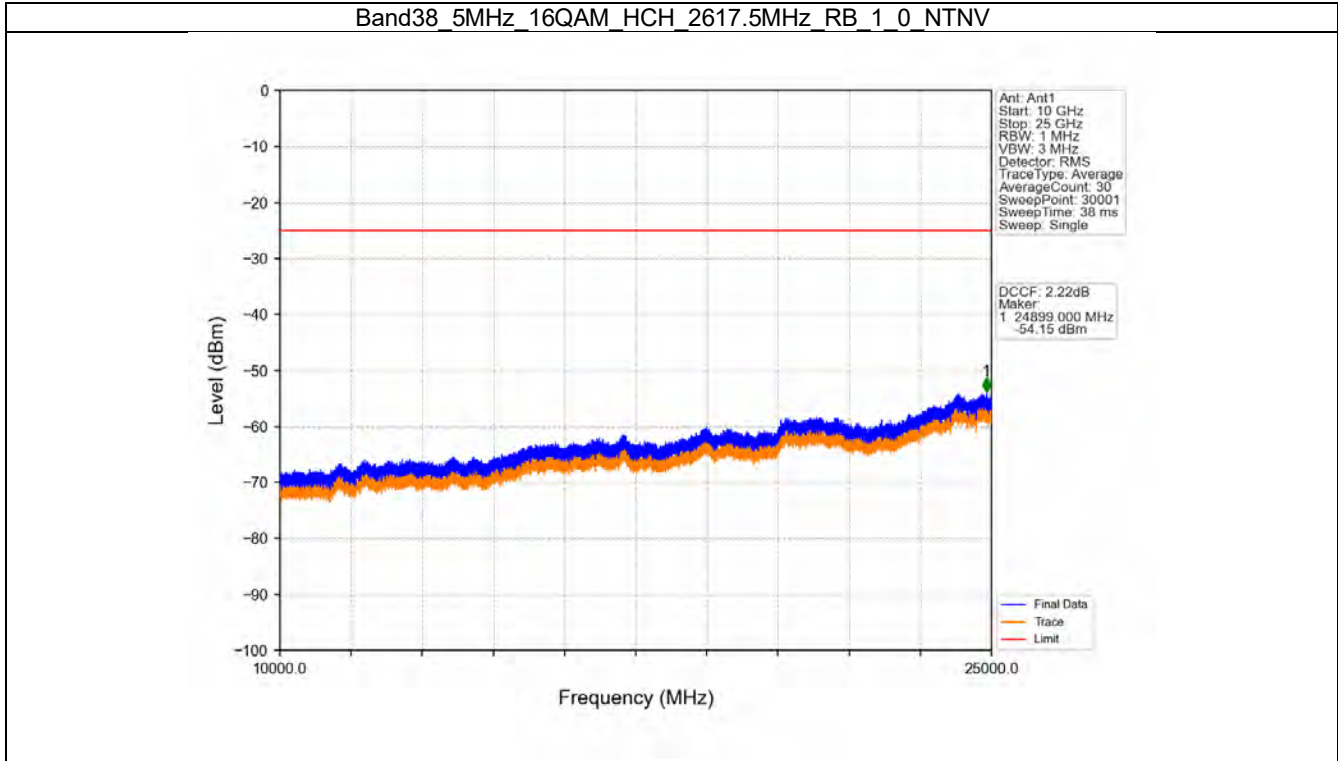


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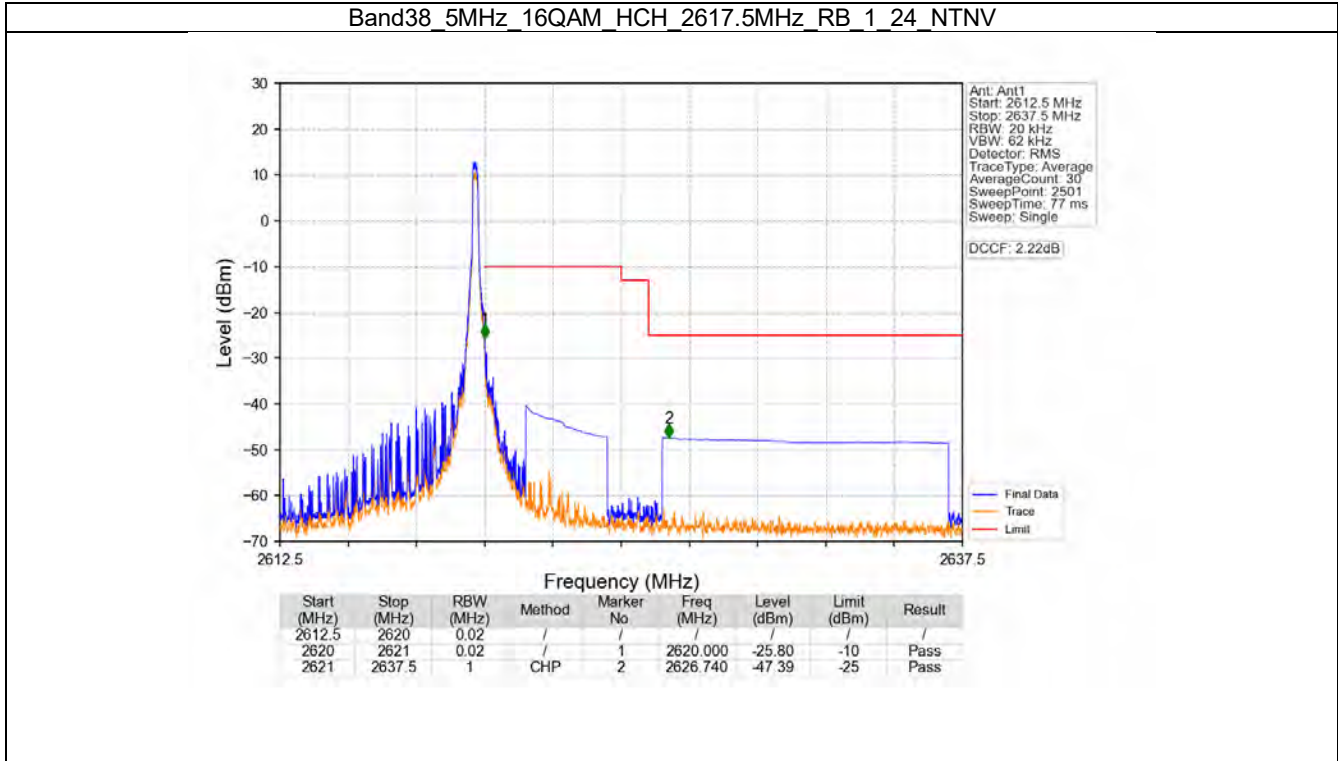


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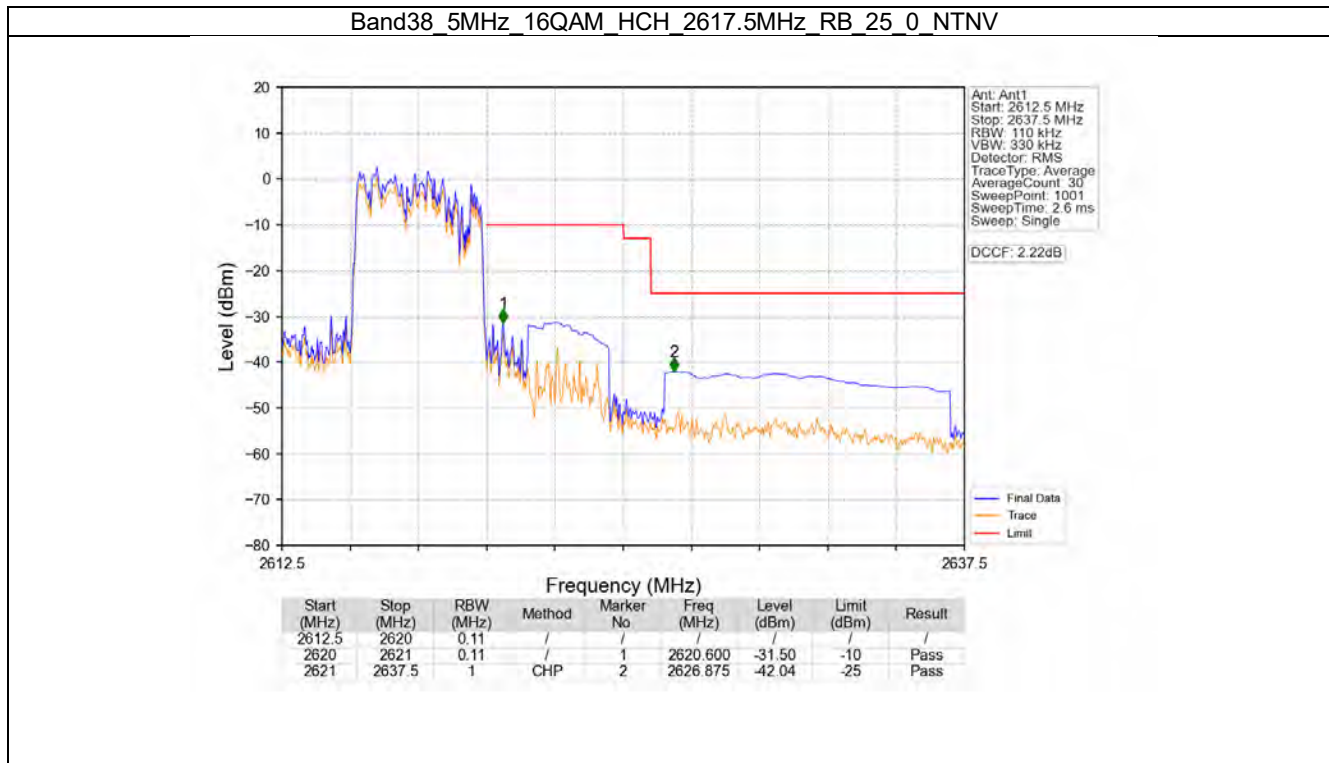
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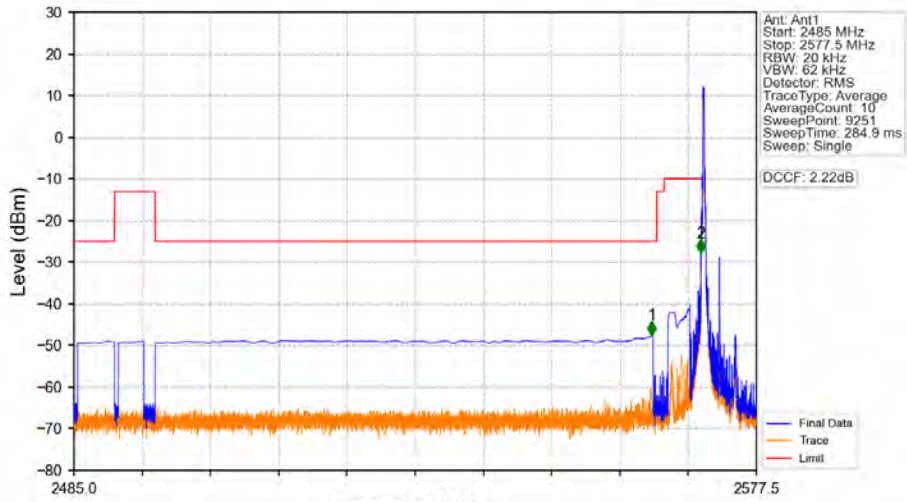
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Band38_5MHz_64QAM_LCH_2572.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2563.310	-47.50	-25	Pass
2569	2570	0.02	/	2	2569.990	-27.88	-10	Pass
2570	2577.5	0.02	/	/	/	/	/	/



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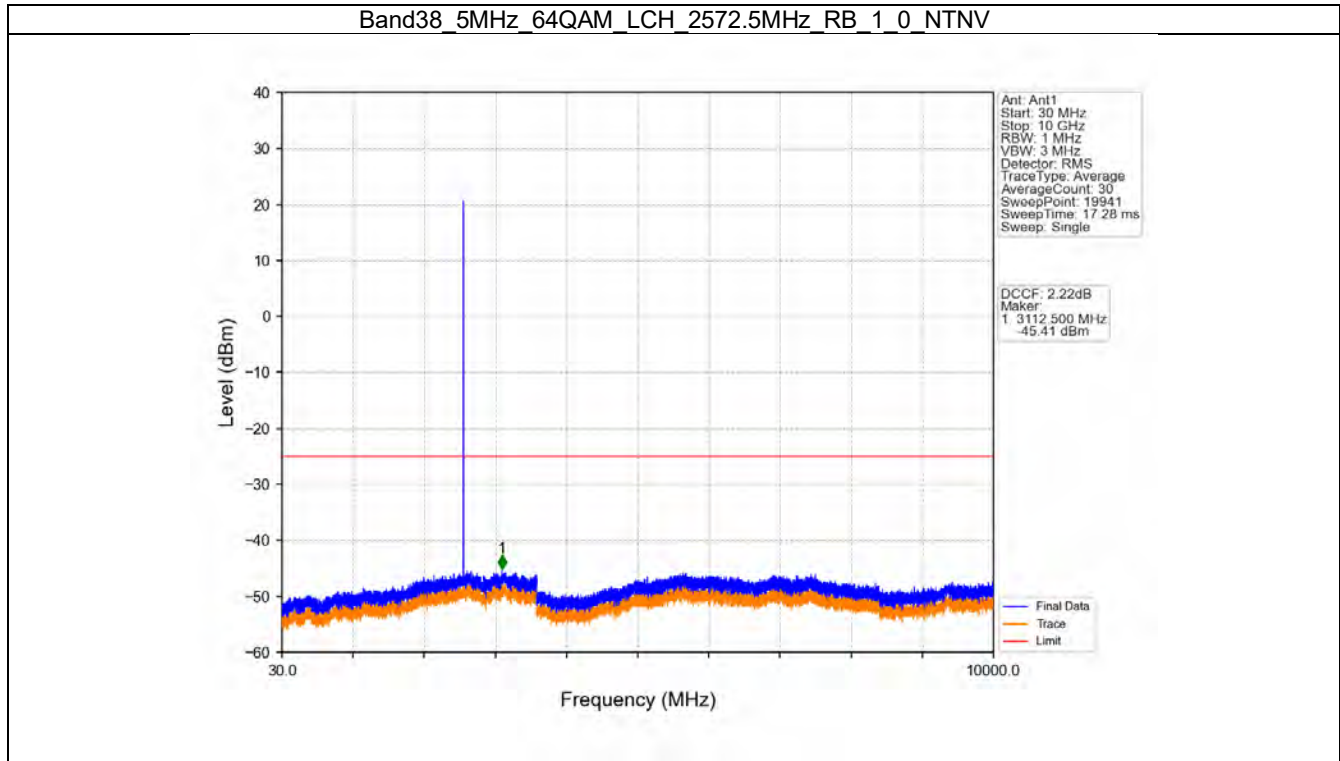


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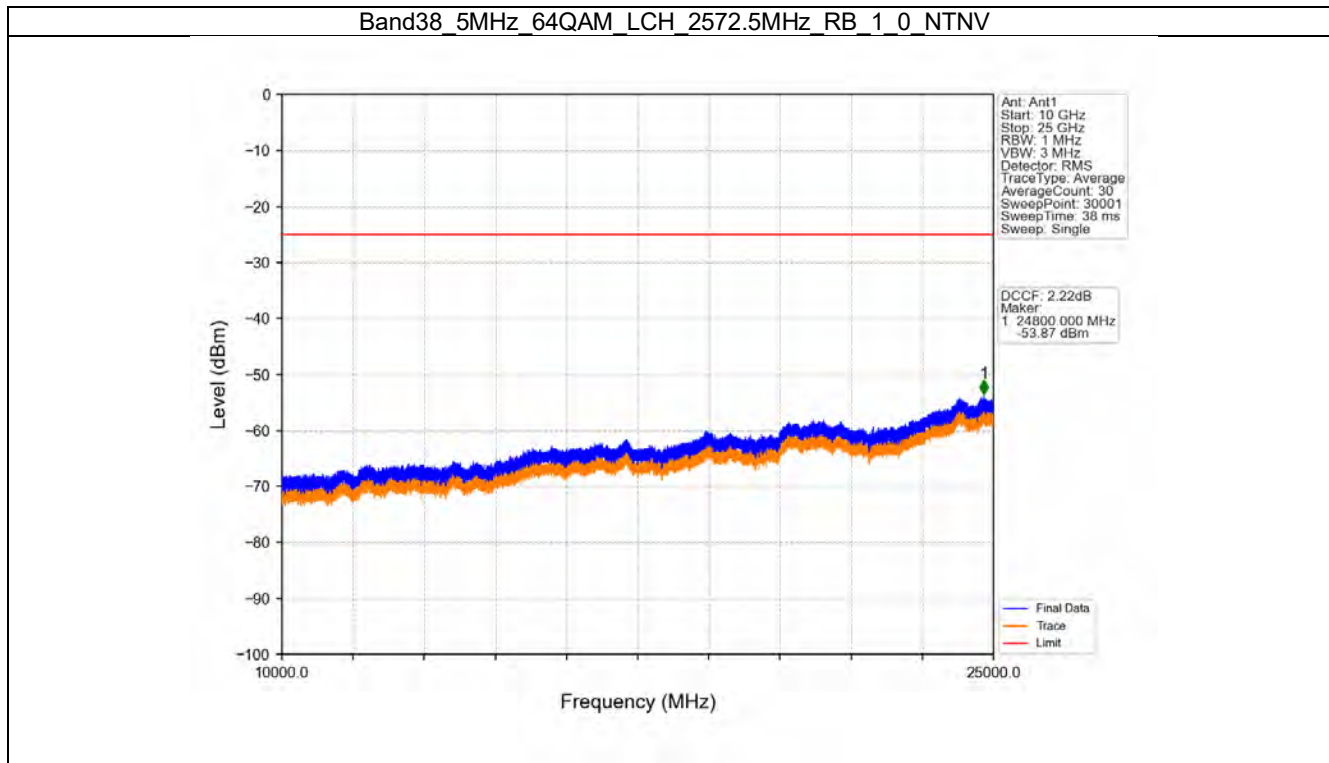
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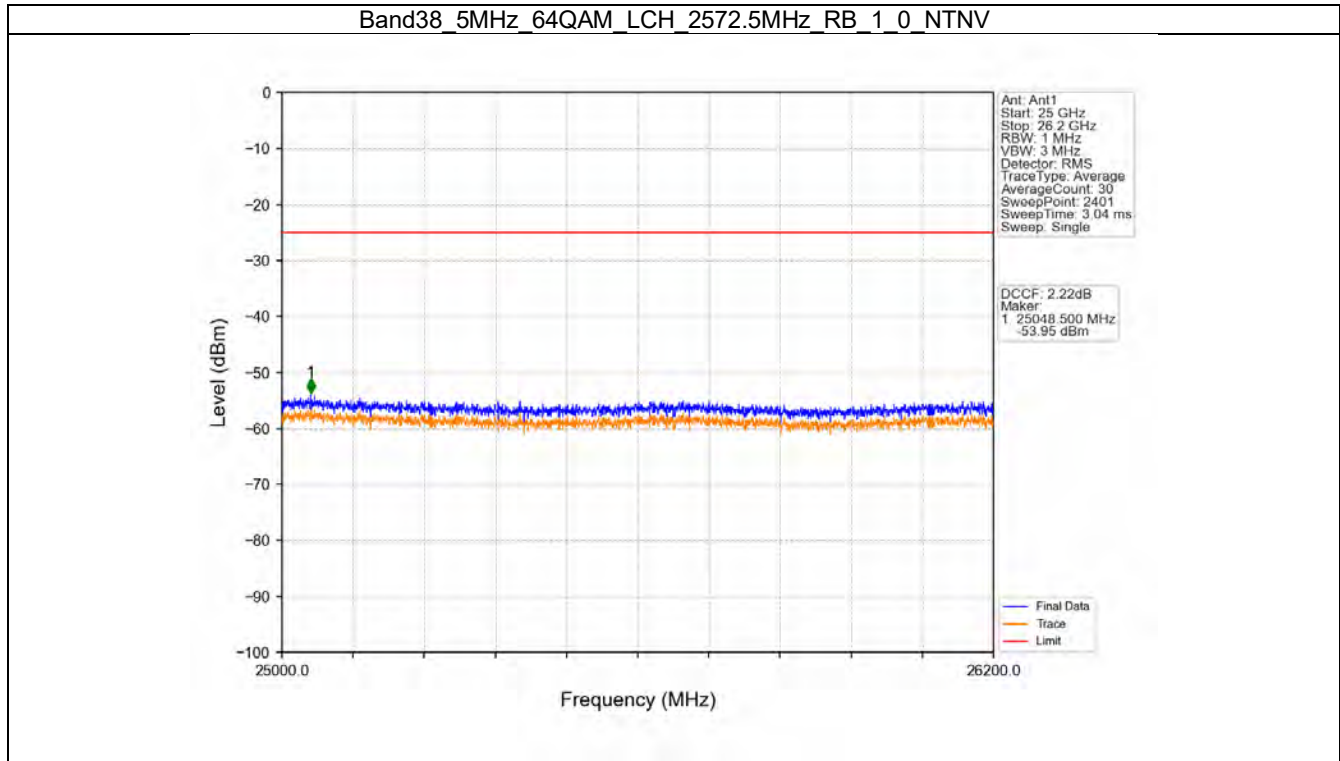


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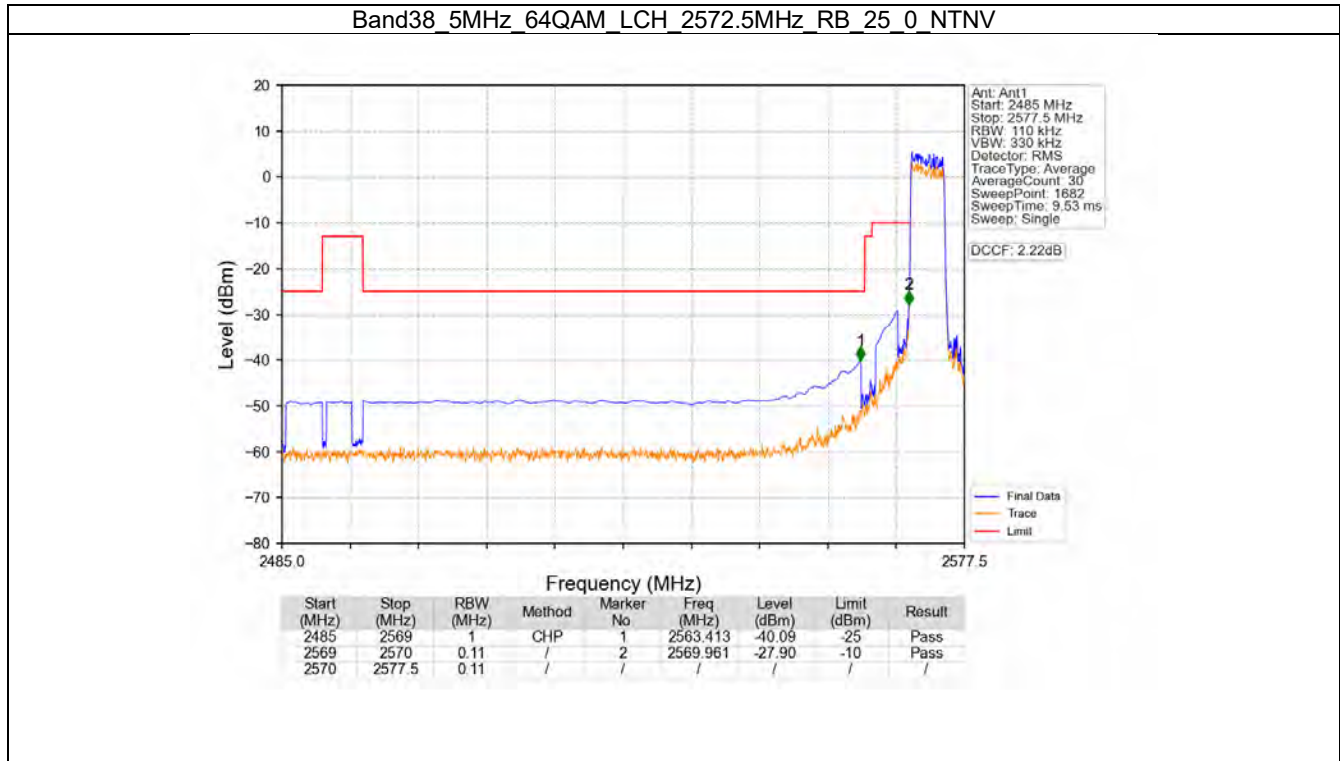


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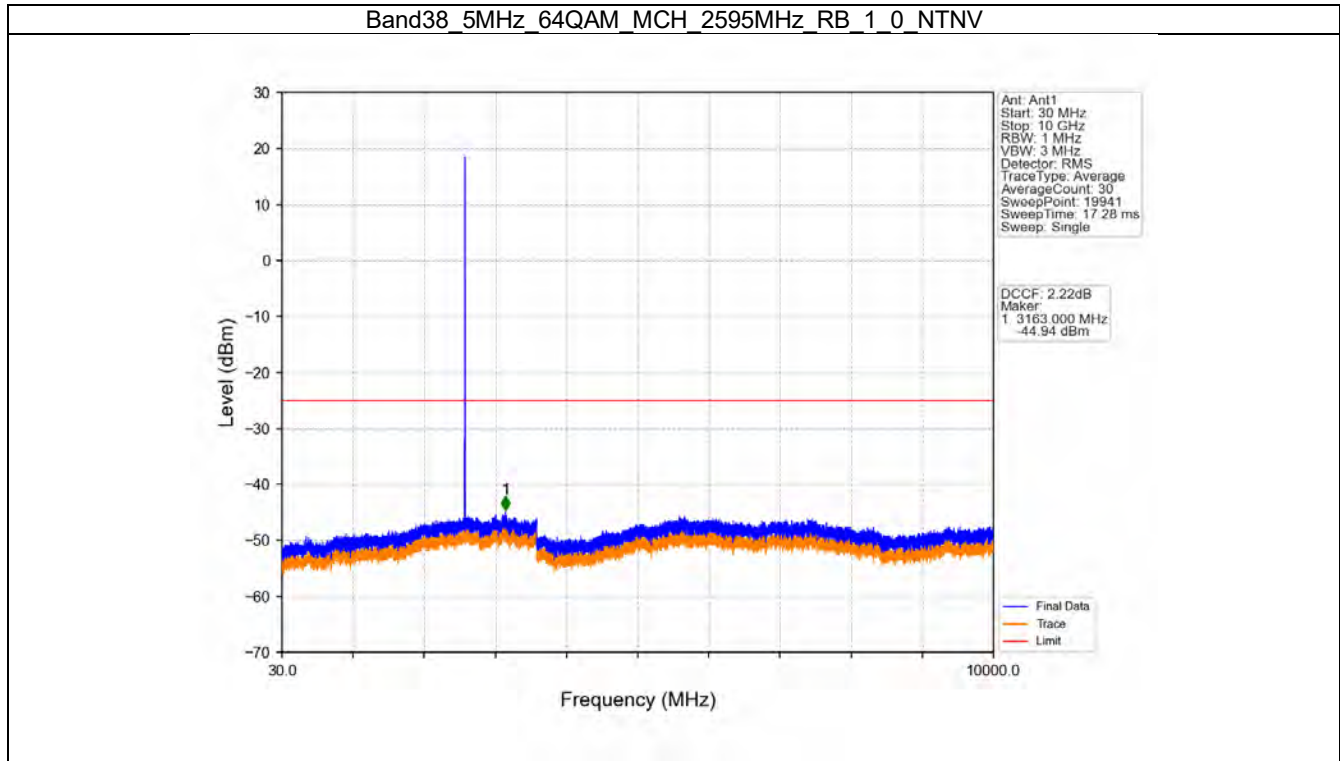


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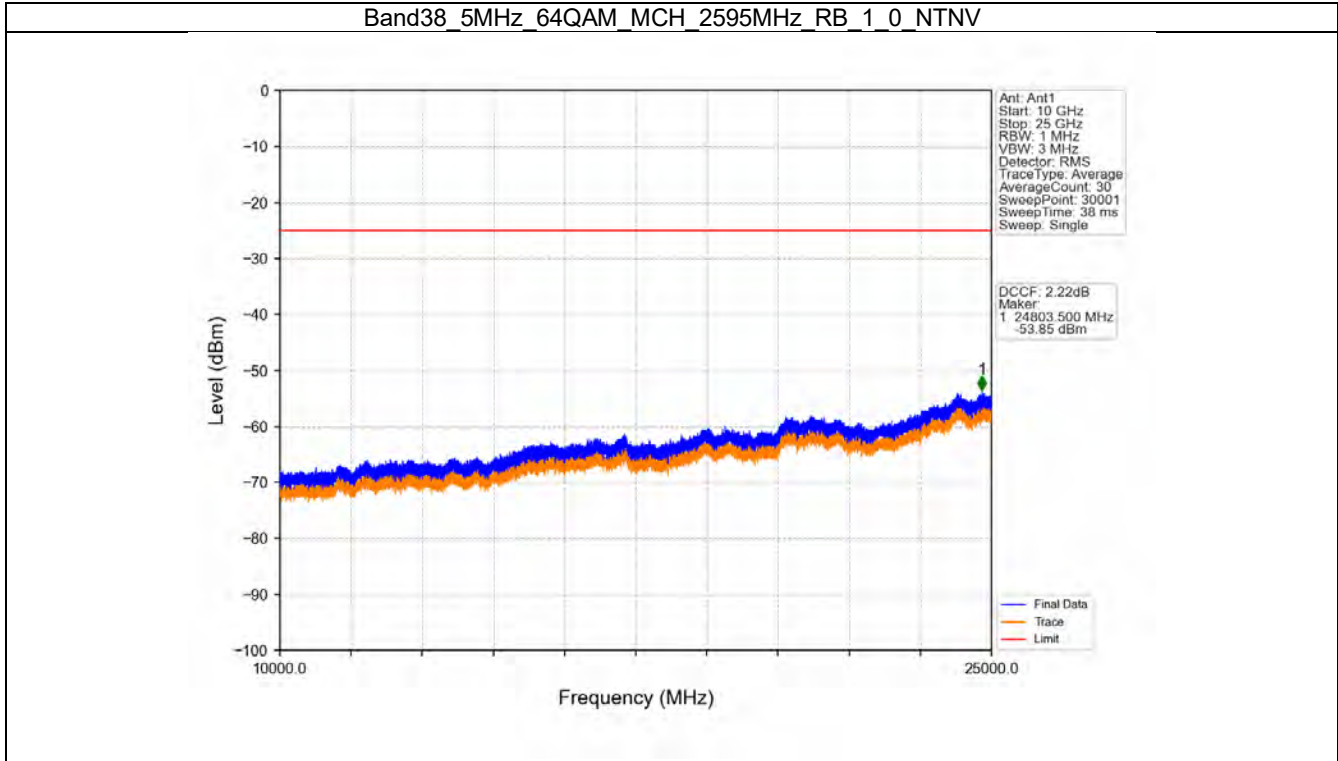


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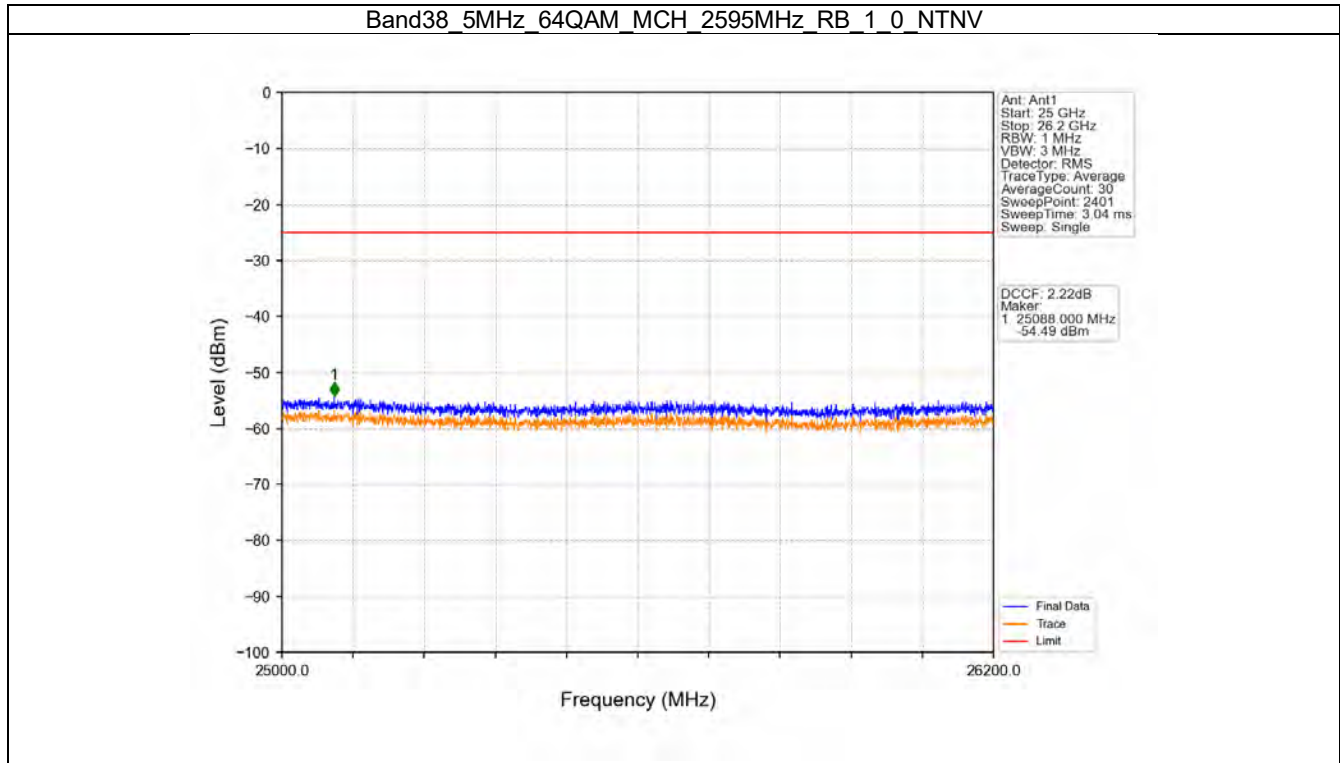


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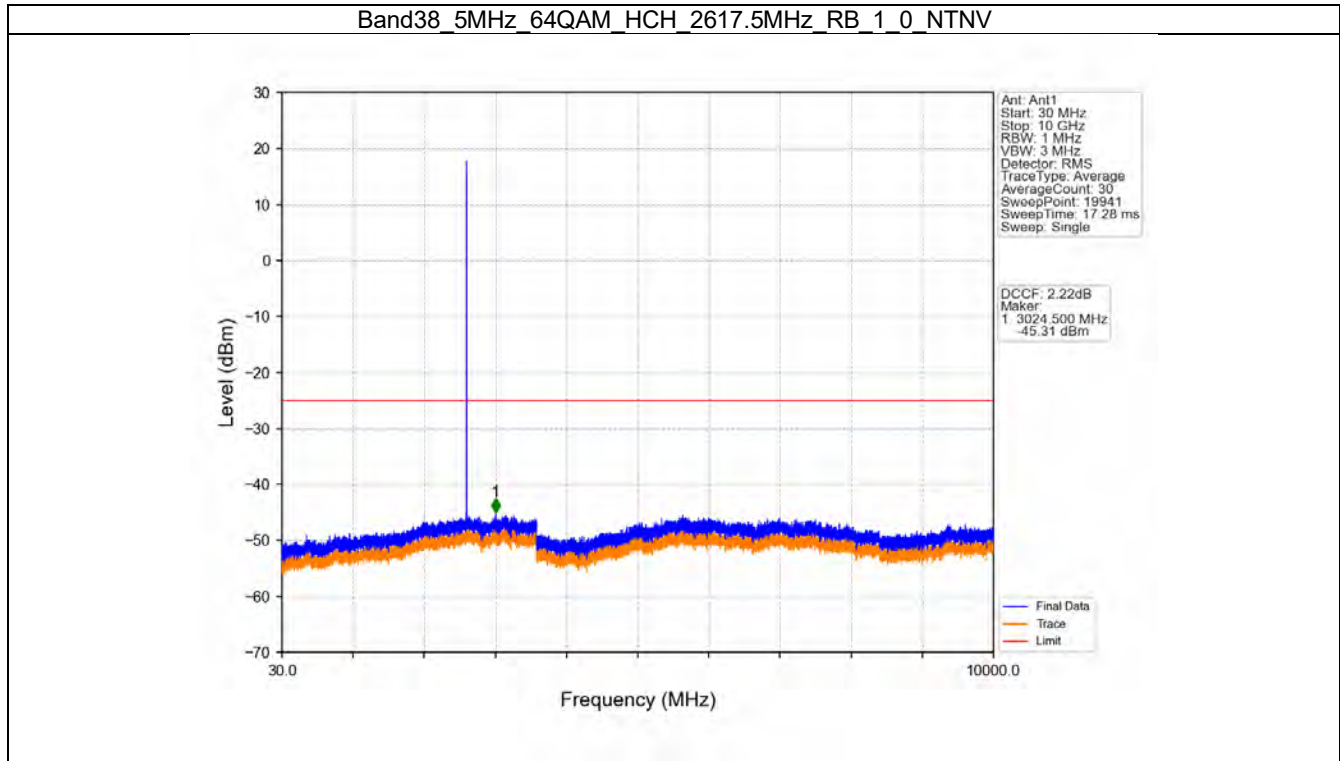


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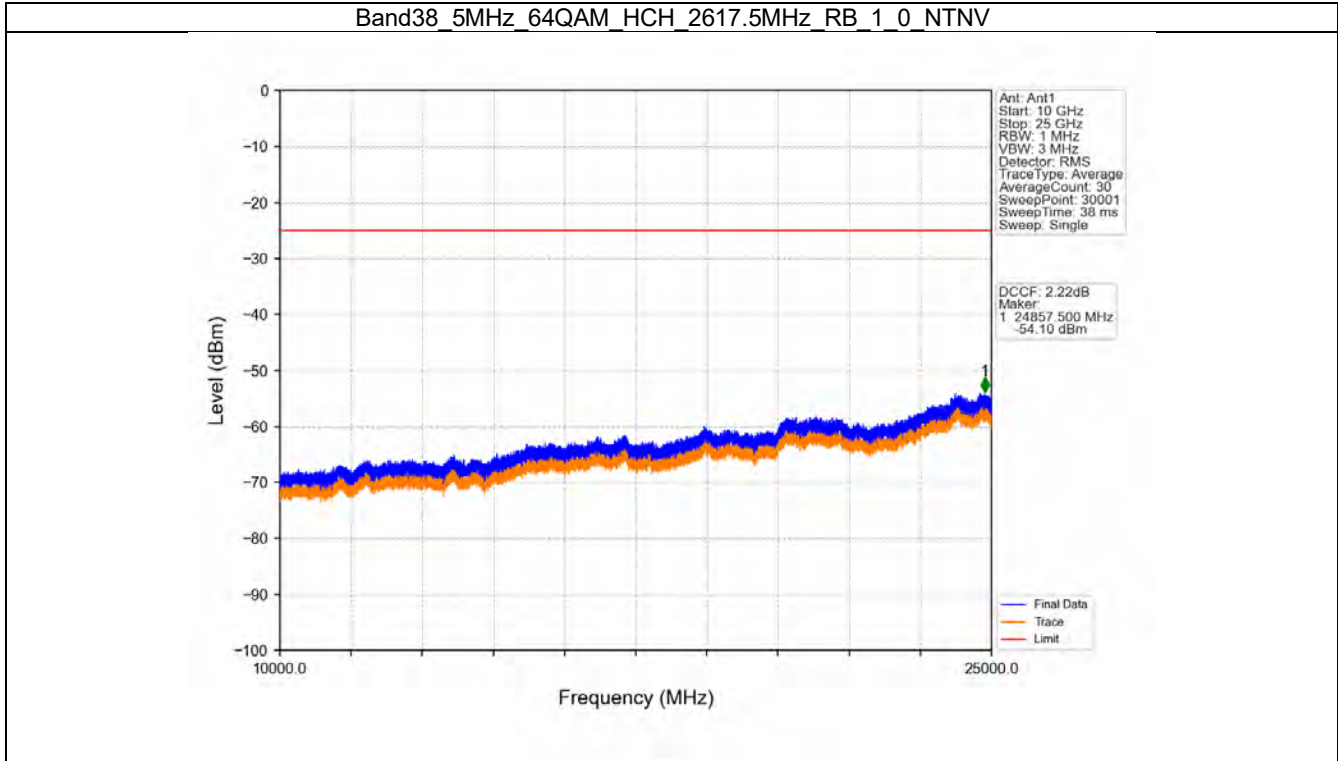


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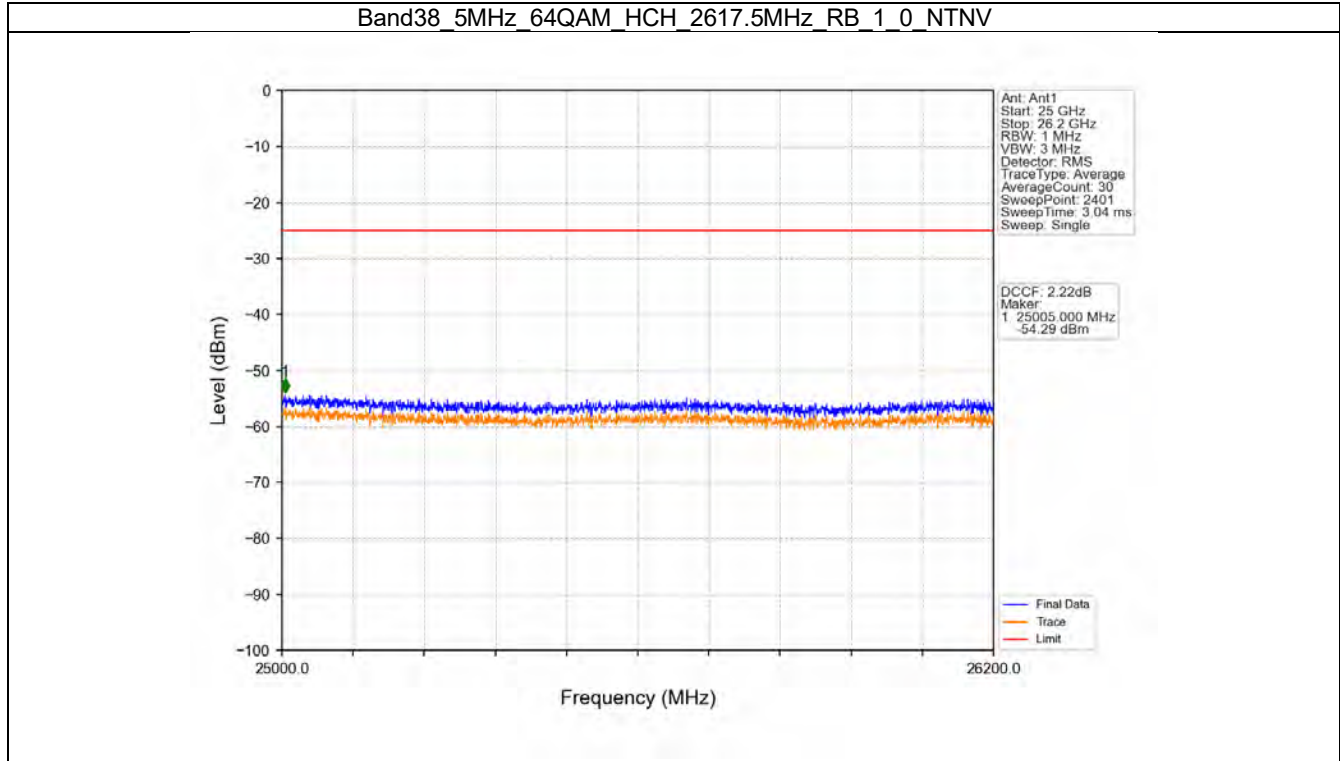


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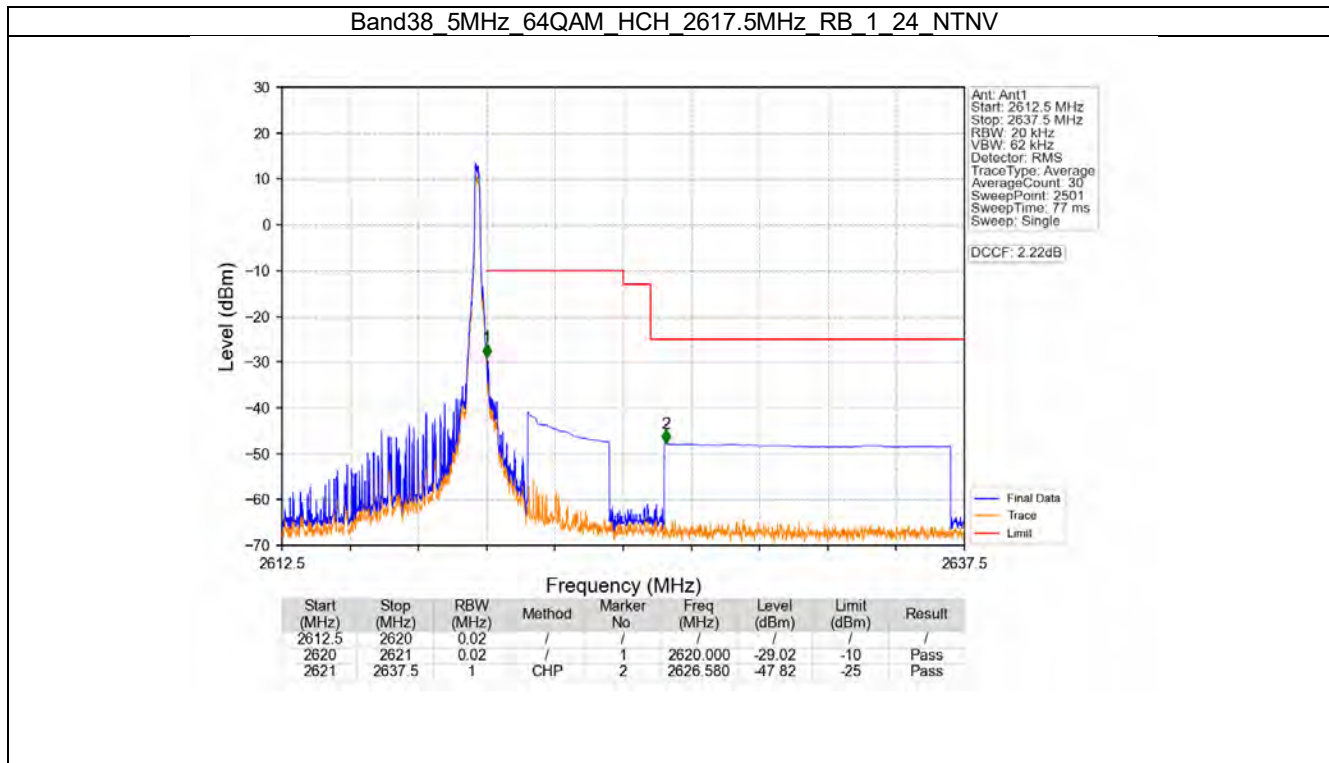
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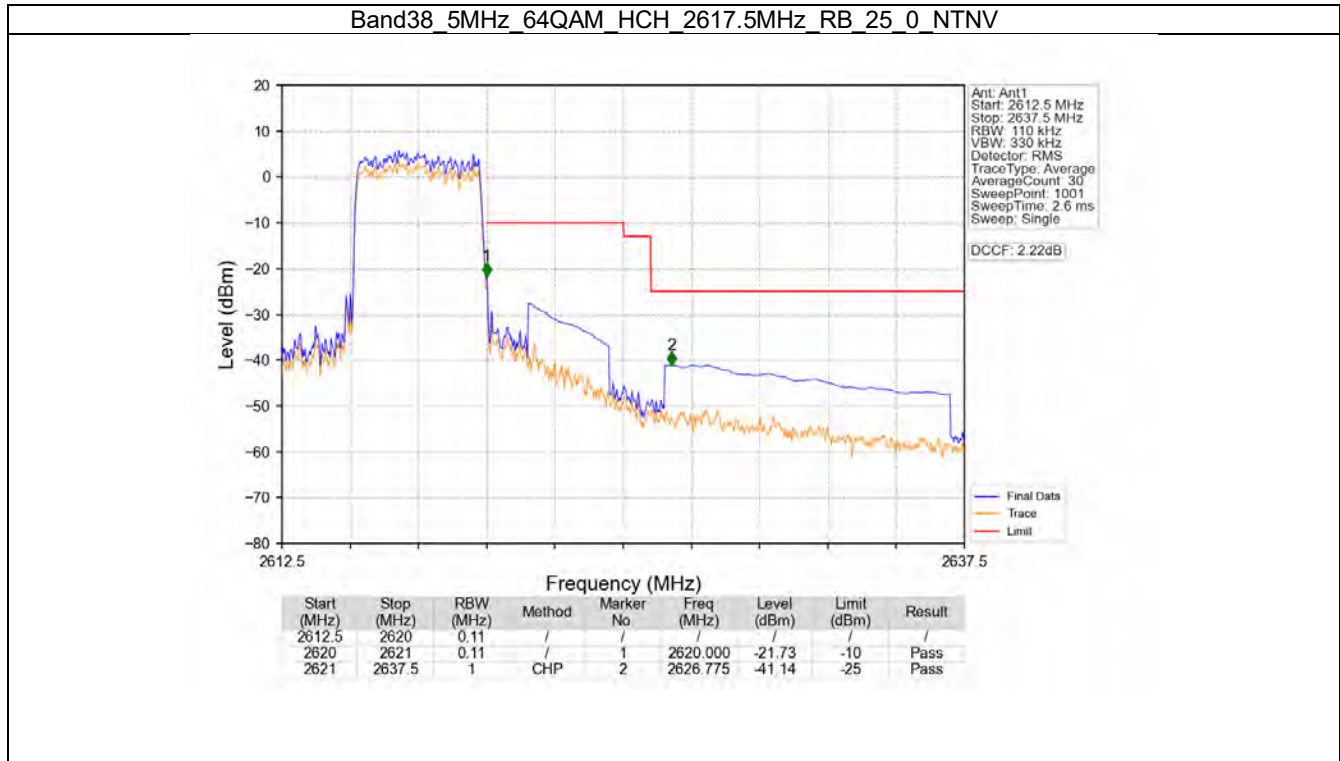


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5.2 B38_10MHz

5.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2615	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	2575	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2615	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
64QAM	2575	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2615	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



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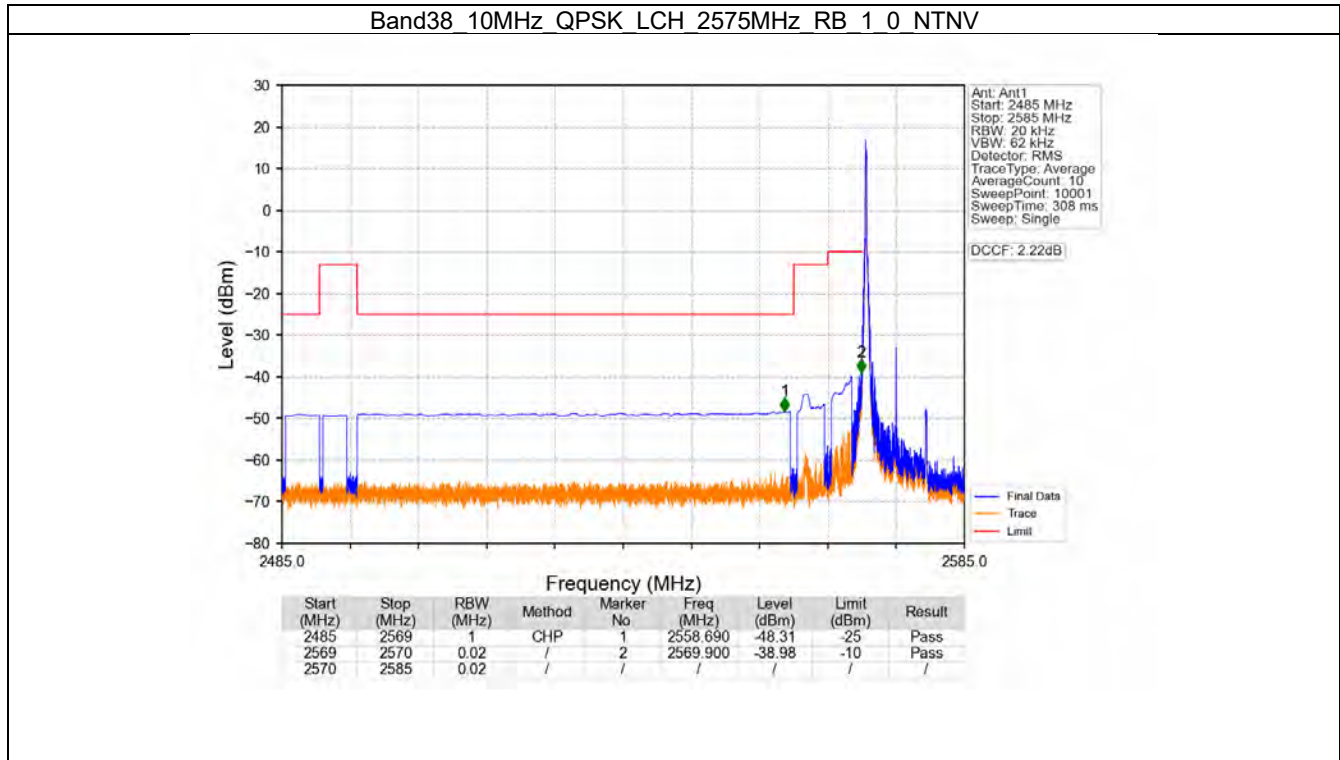
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5.2.2 Test Graph



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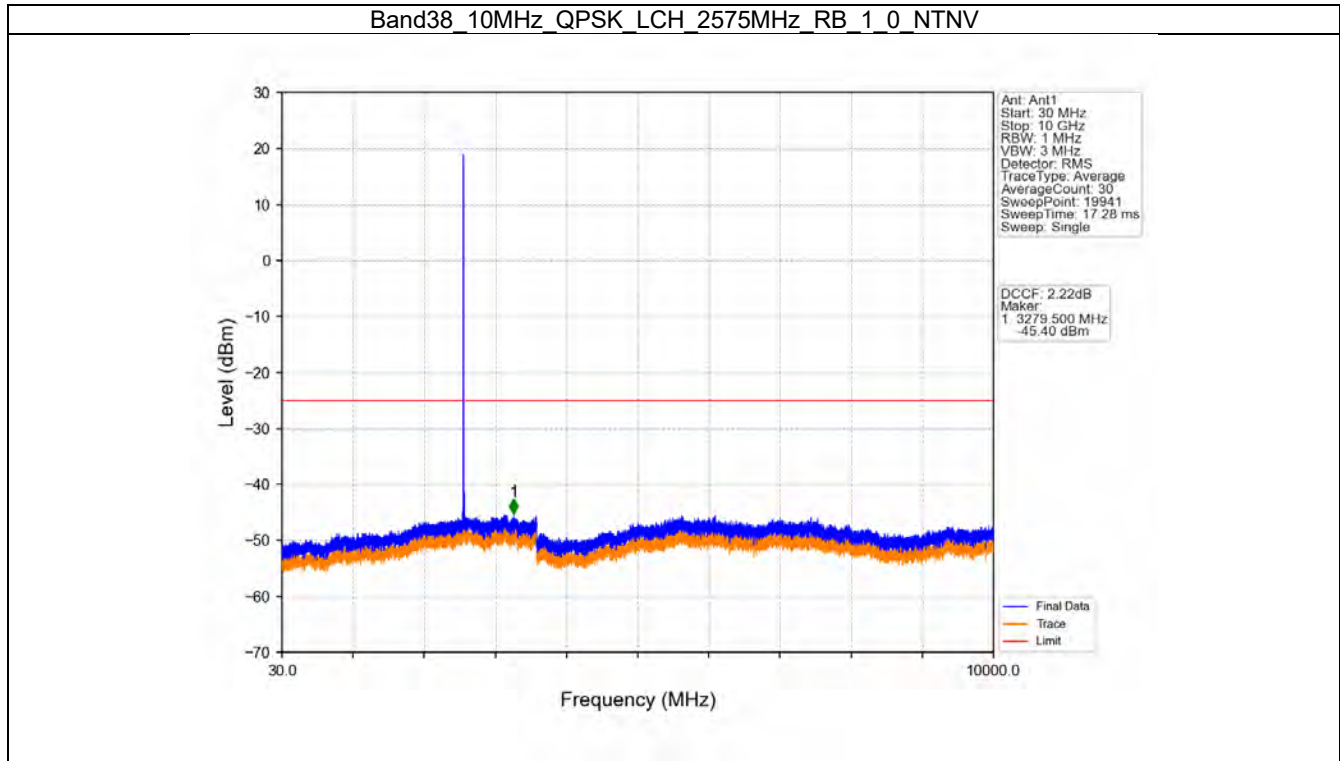


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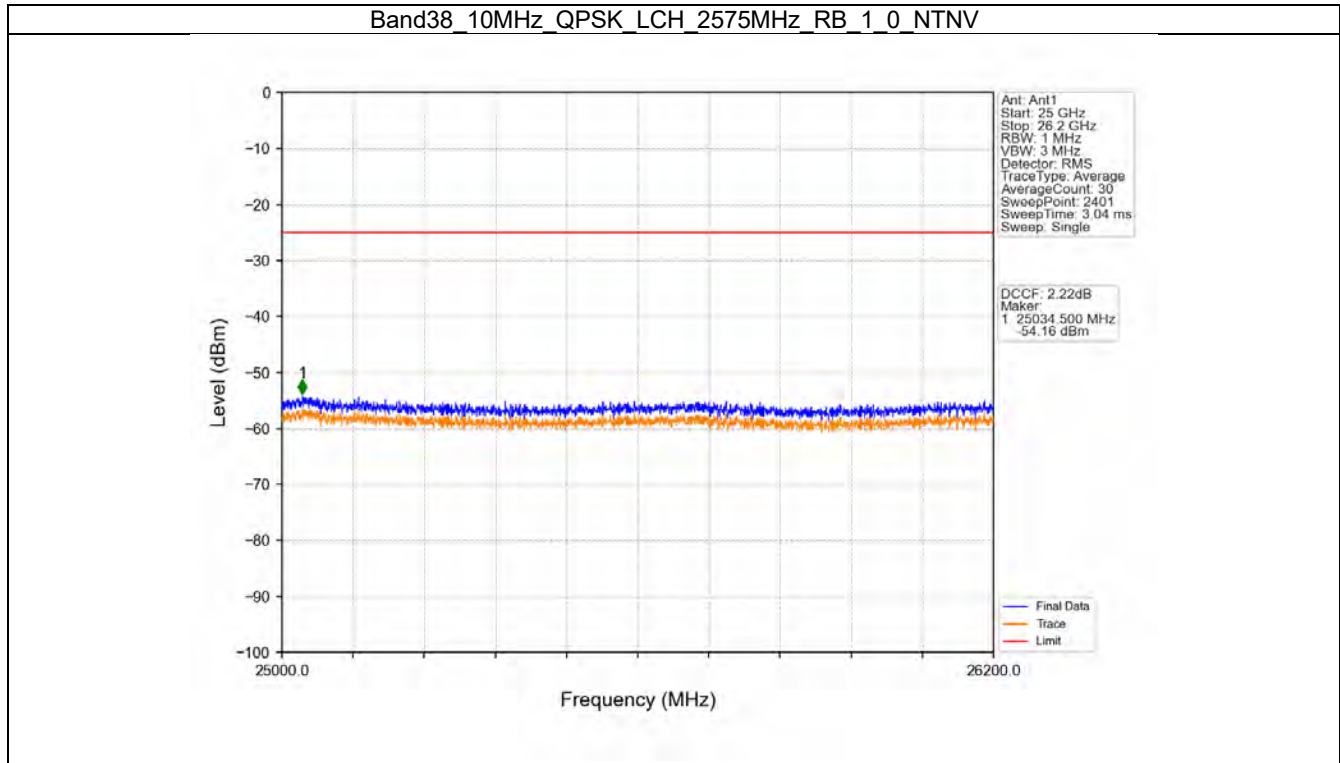


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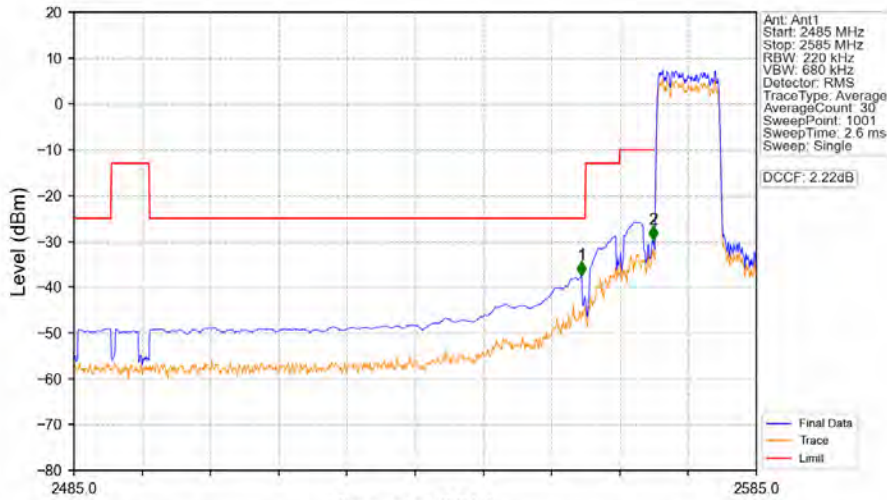
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Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2559.400	-37.42	-25	Pass
2569	2570	0.22	/	2	2569.900	-29.67	-10	Pass
2570	2585	0.22	/	/	/	/	/	/



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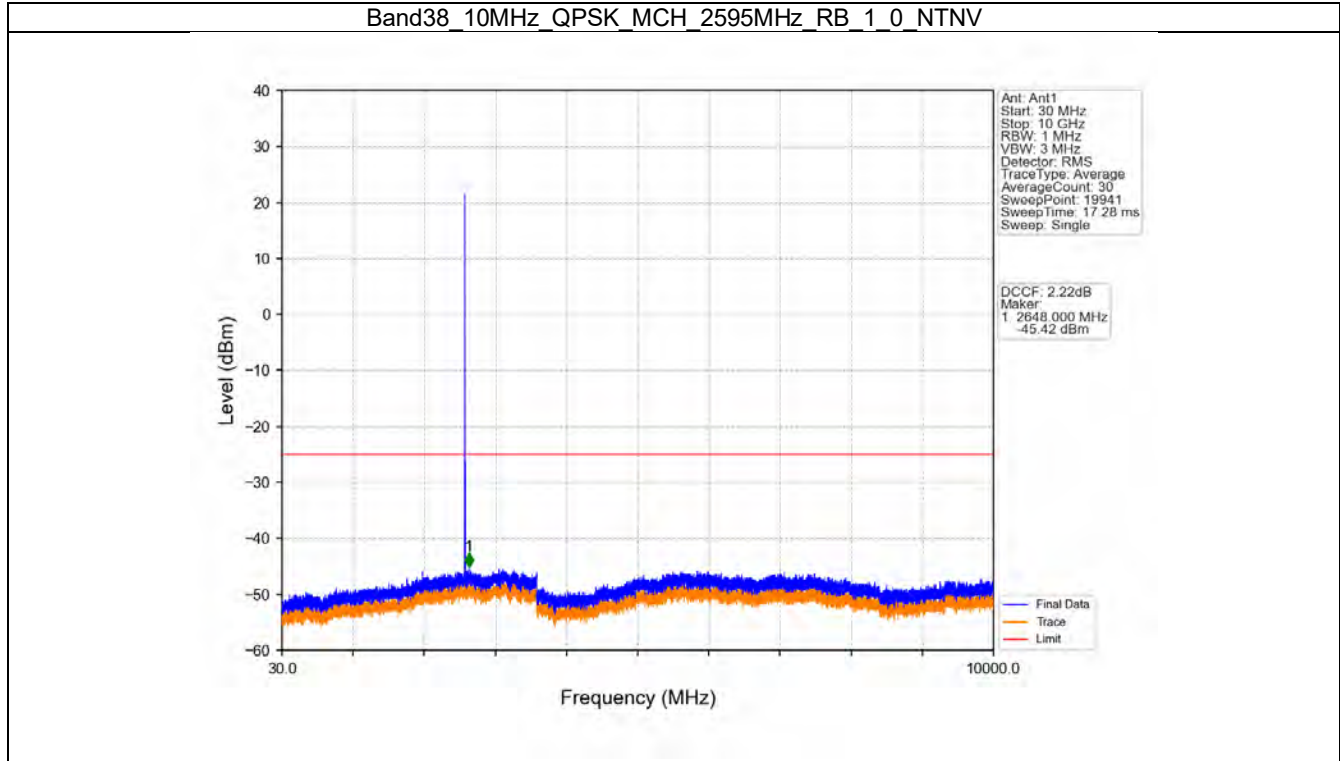


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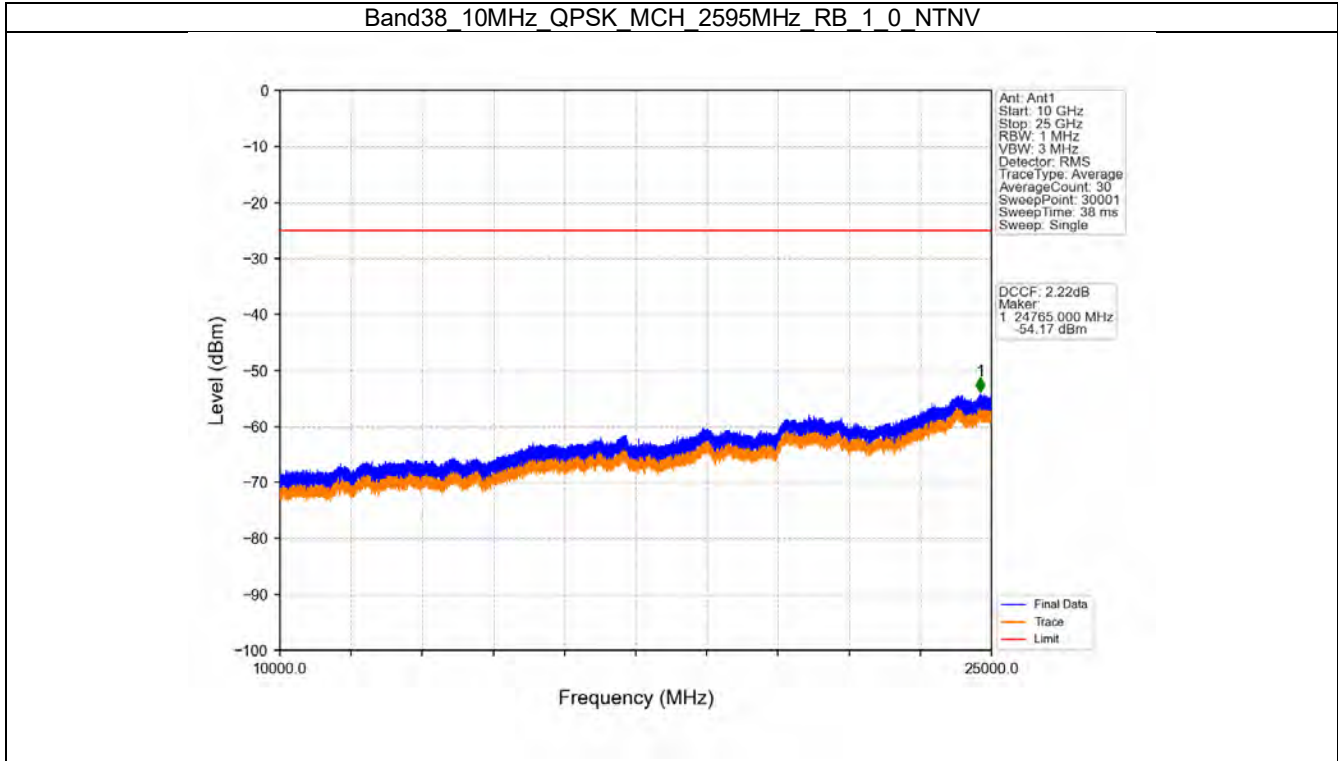
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Band38_10MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



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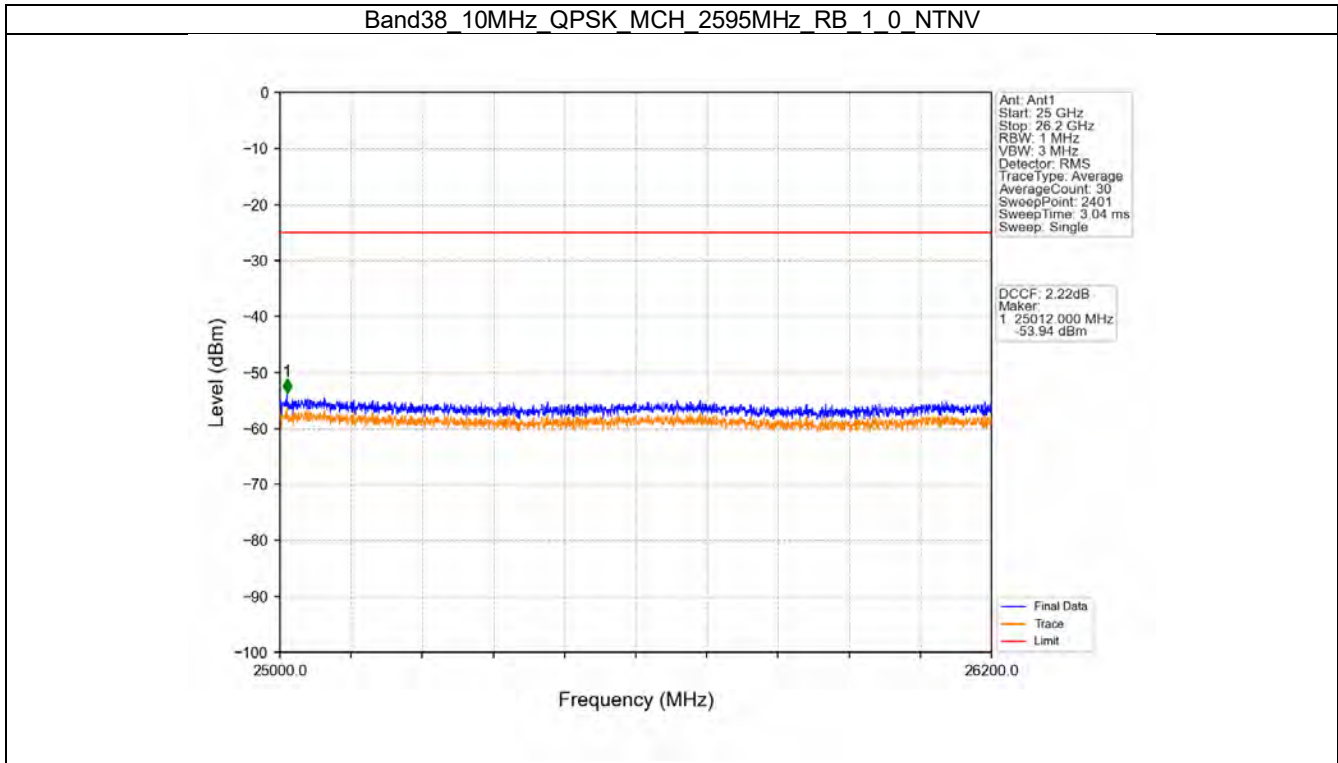


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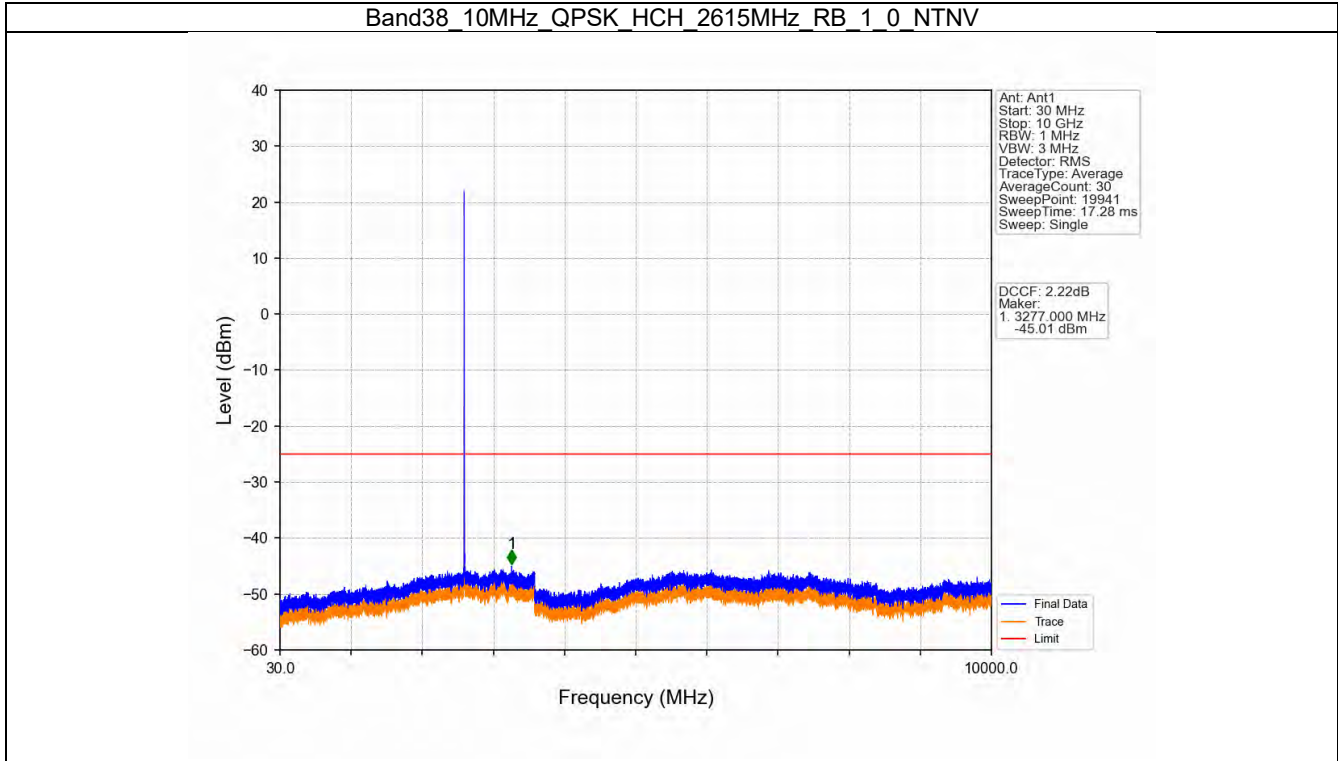


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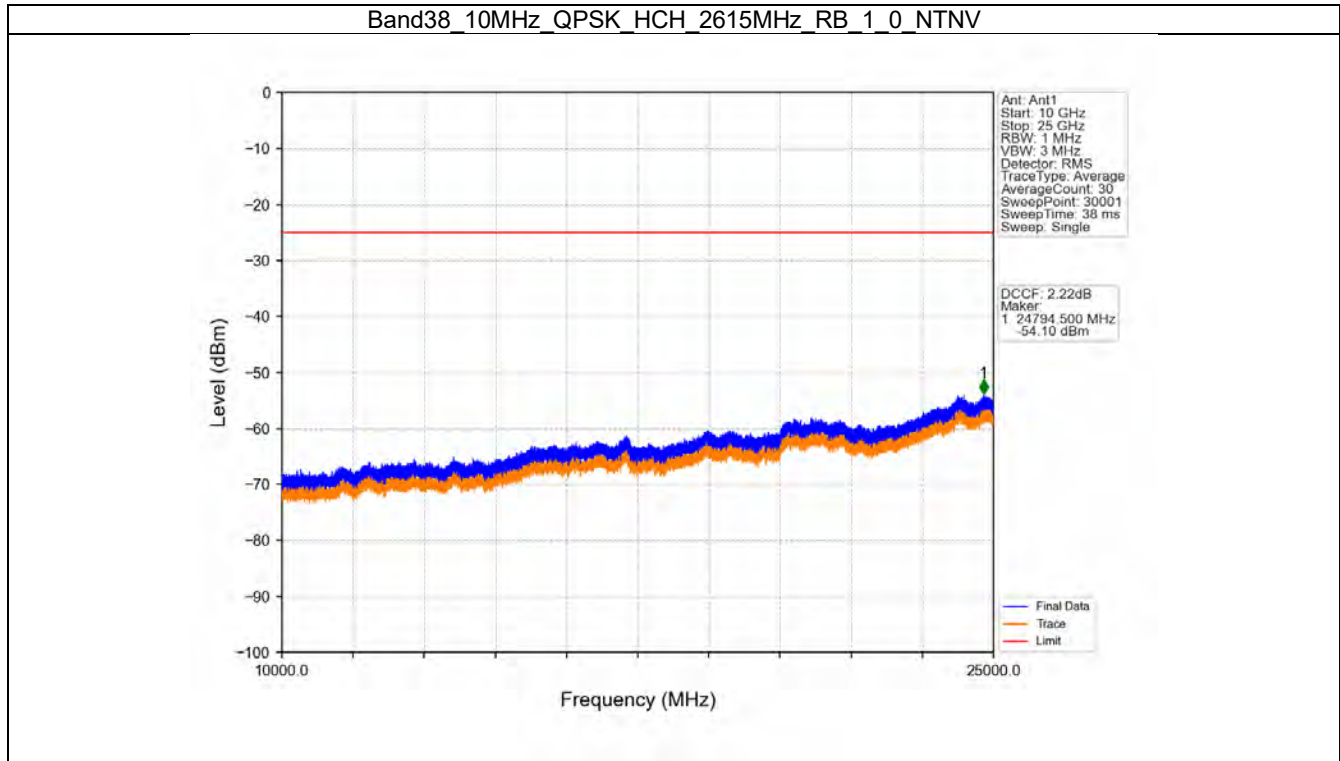


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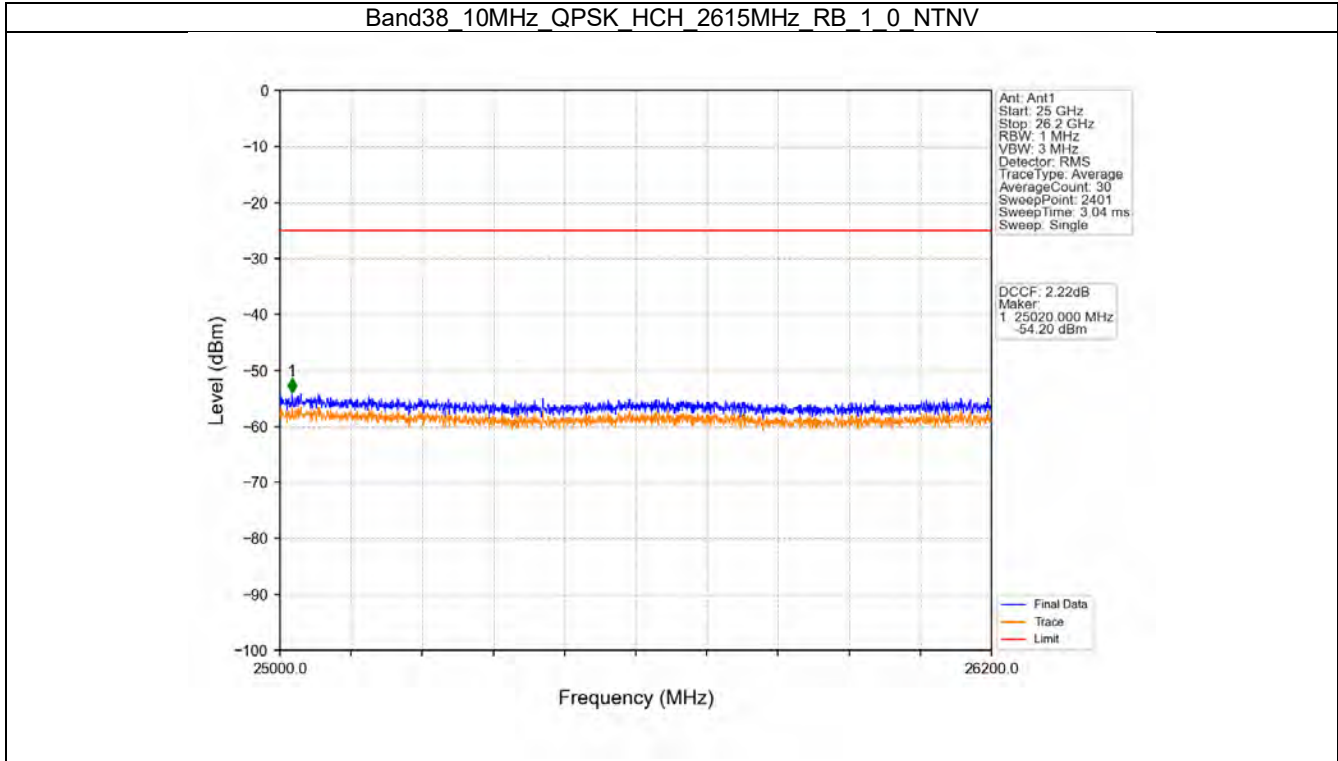


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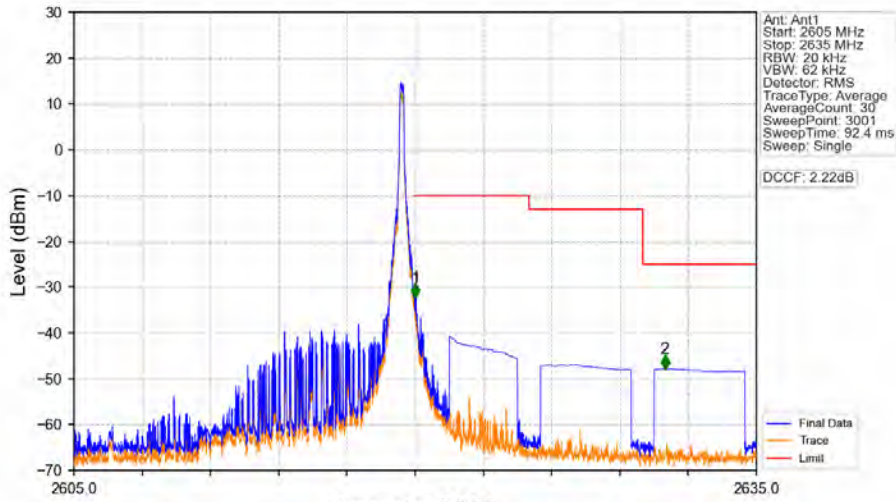
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.02	/	/	/	/	/	/
2620	2621	0.02	/	1	2620.010	-32.28	-10	Pass
2621	2635	1	CHP	2	2630.980	-47.87	-25	Pass



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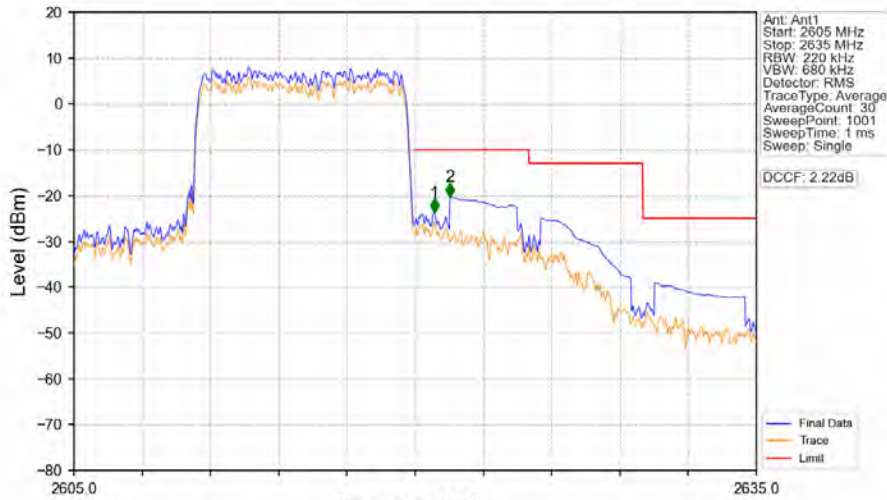
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Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



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	2620.840	-23.74	-10	Pass
2621	2635	1	CHP	2	2621.530	-20.31	-10	Pass



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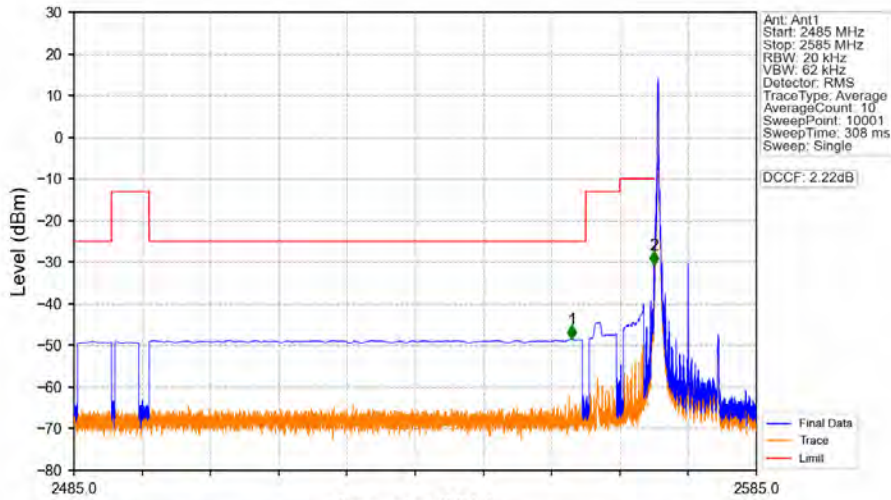
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Band38_10MHz_16QAM_LCH_2575MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2557.950	-48.52	-25	Pass
2569	2570	0.02	/	2	2570.000	-30.70	-10	Pass
2570	2585	0.02	/	/	/	/	/	/



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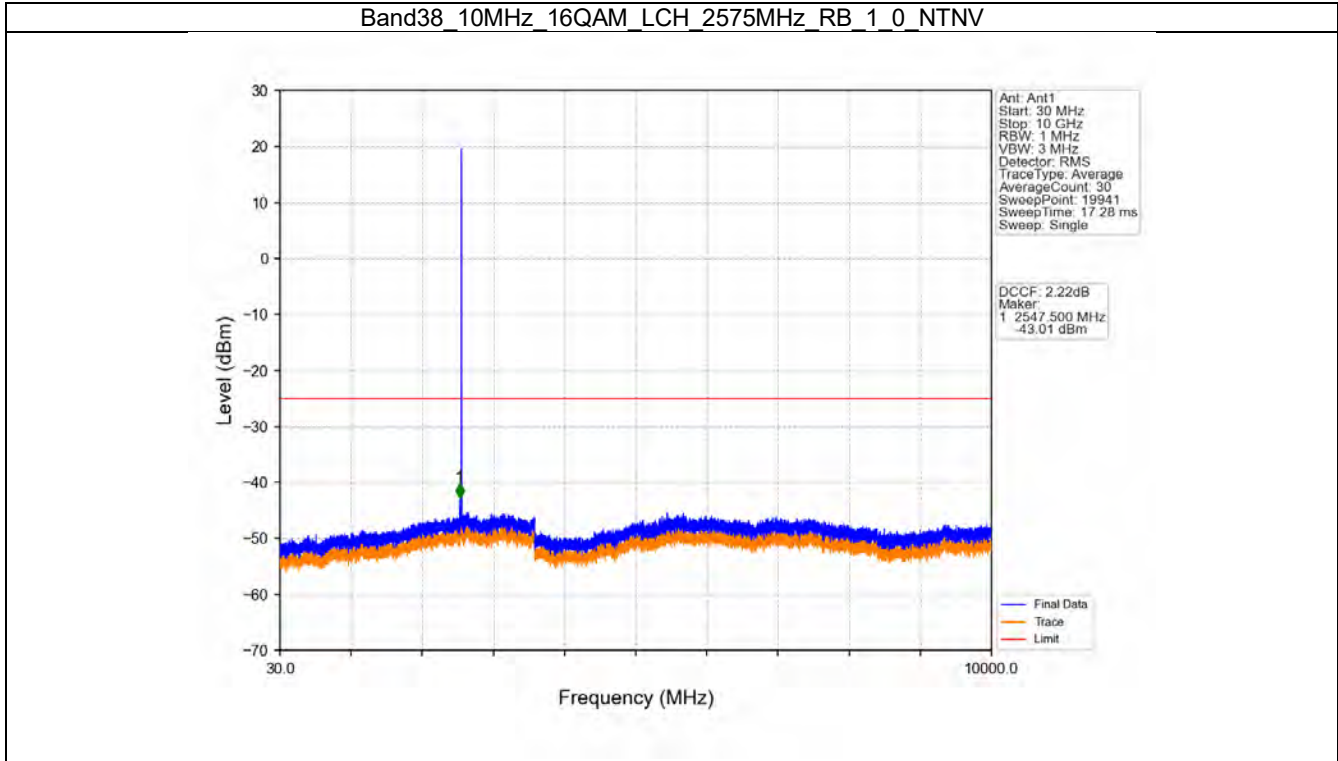


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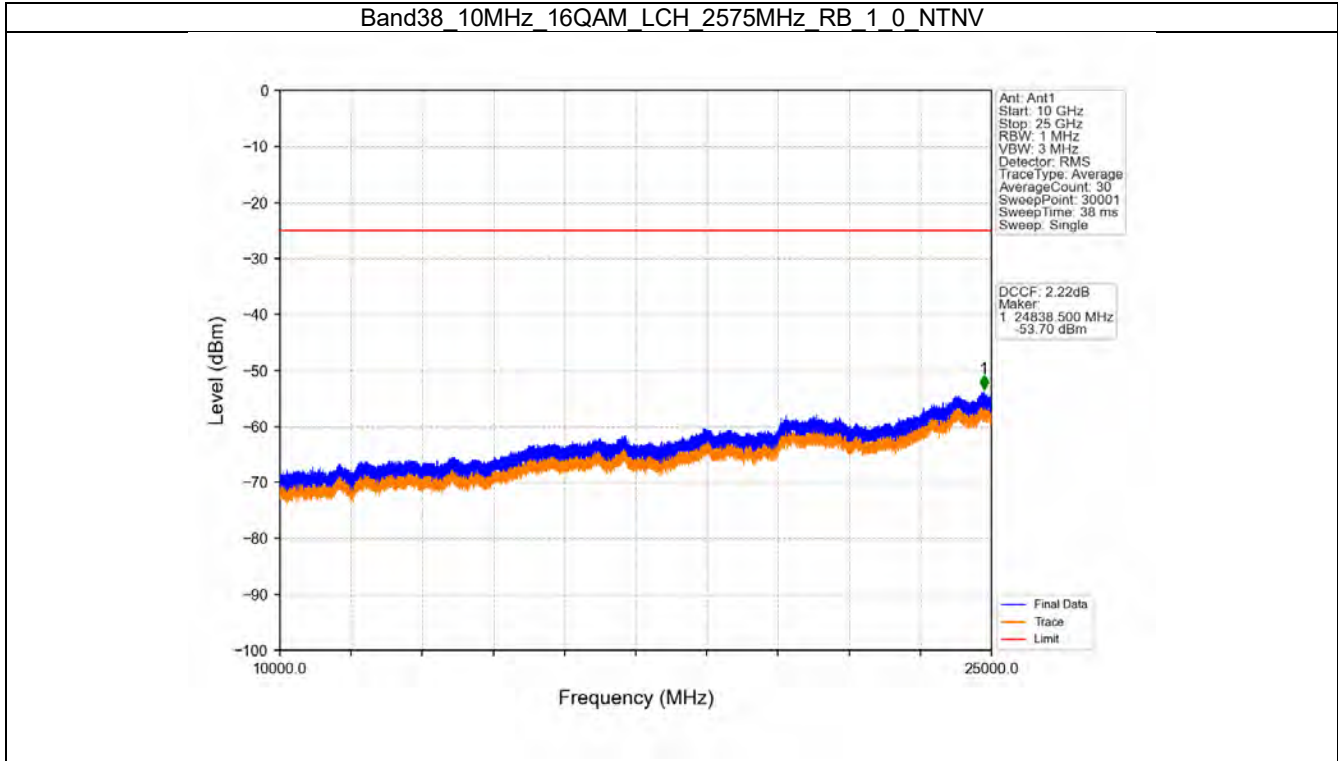


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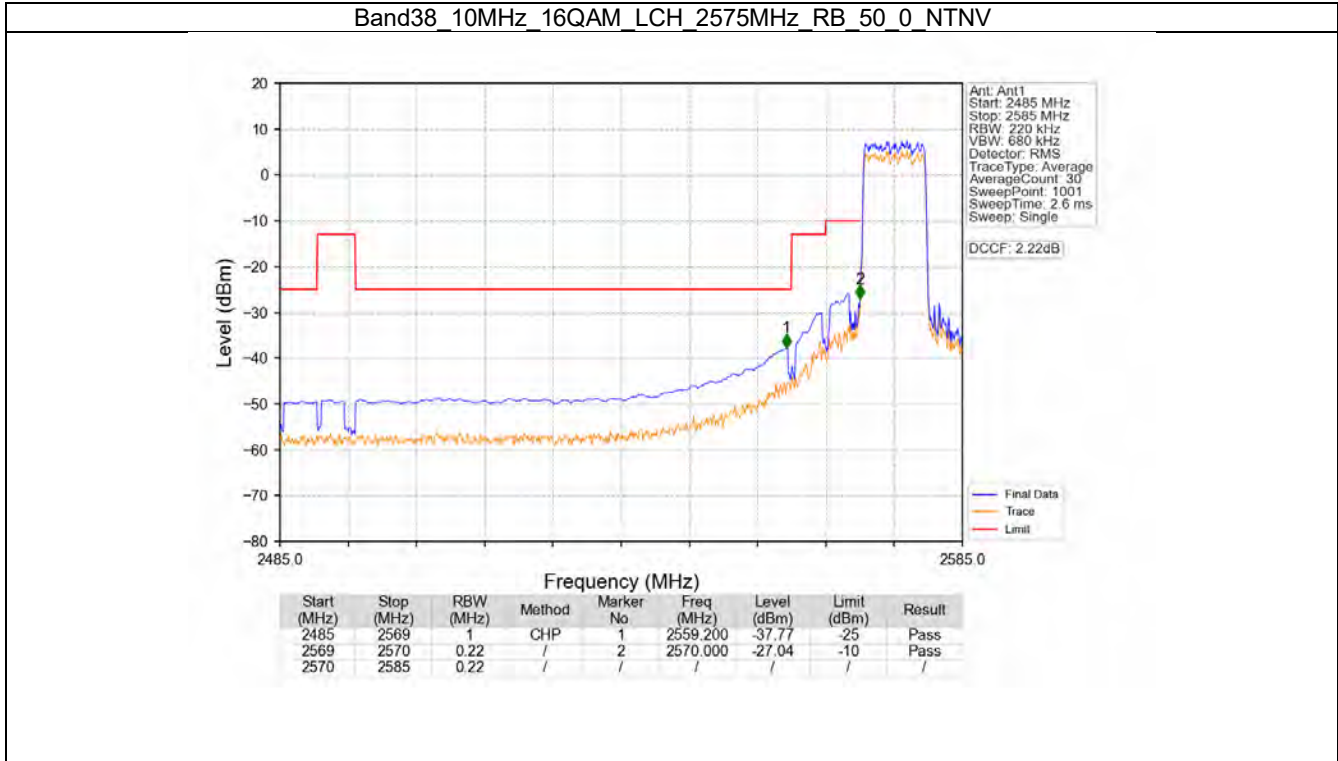


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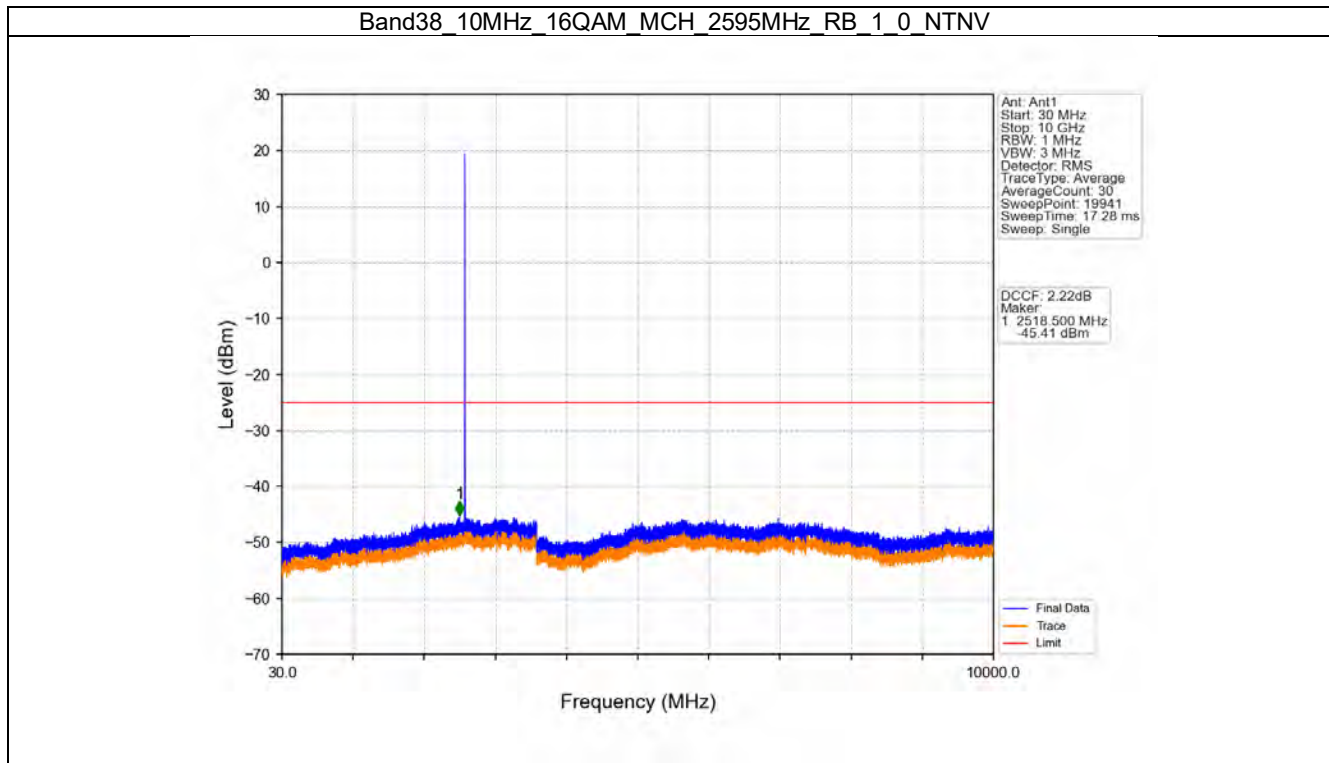
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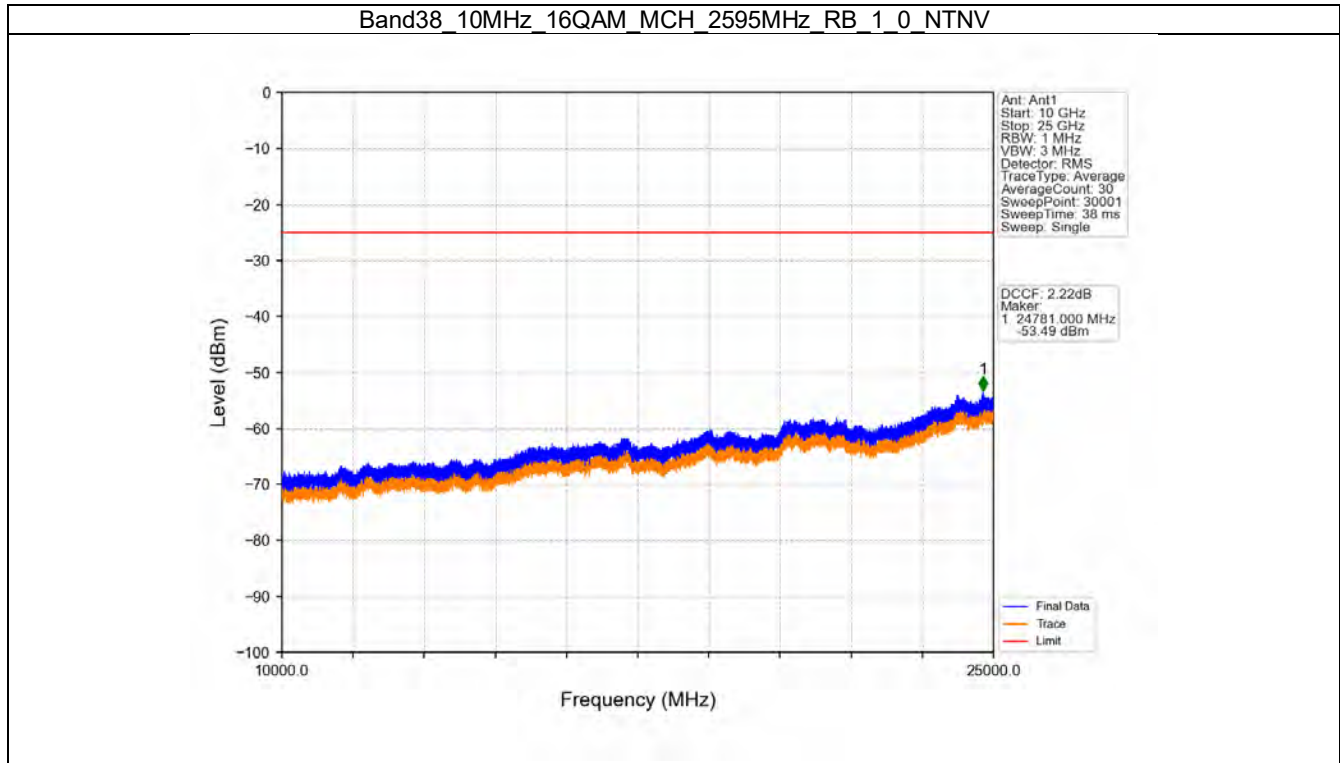


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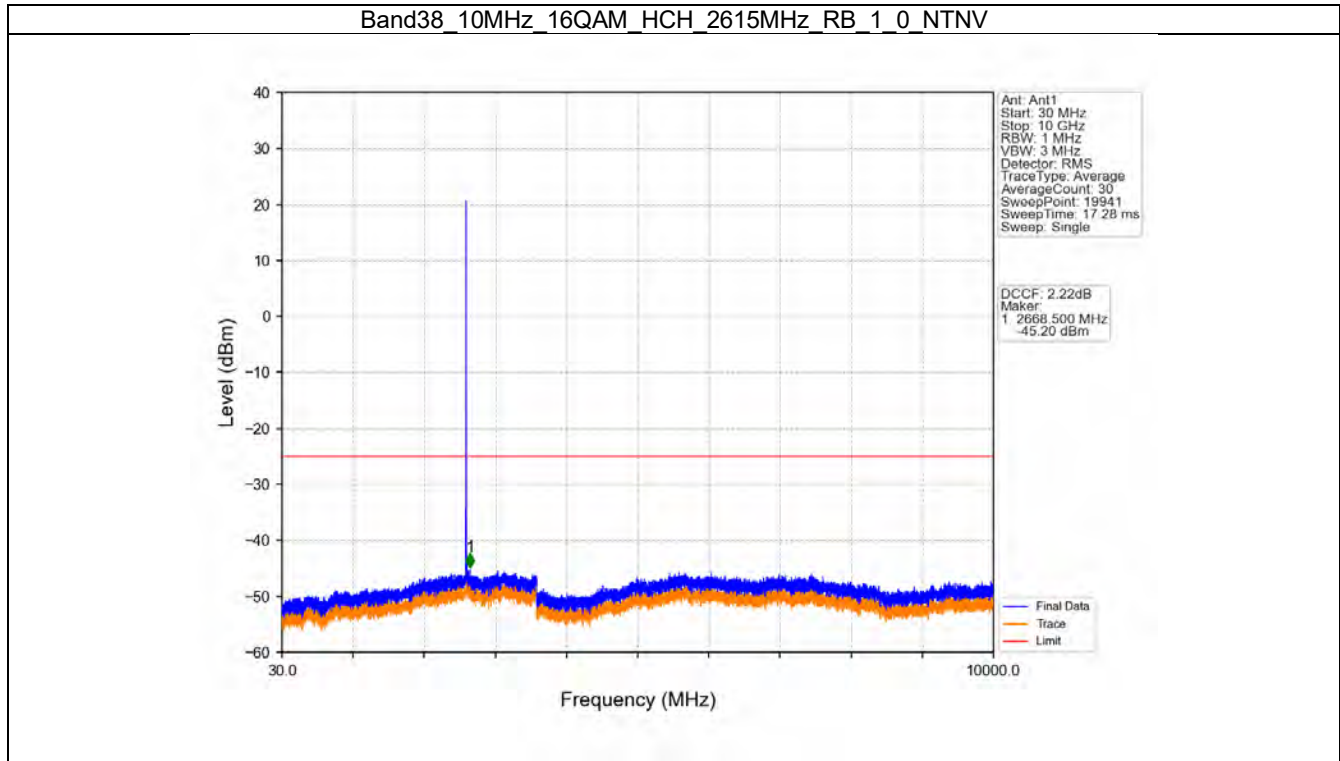


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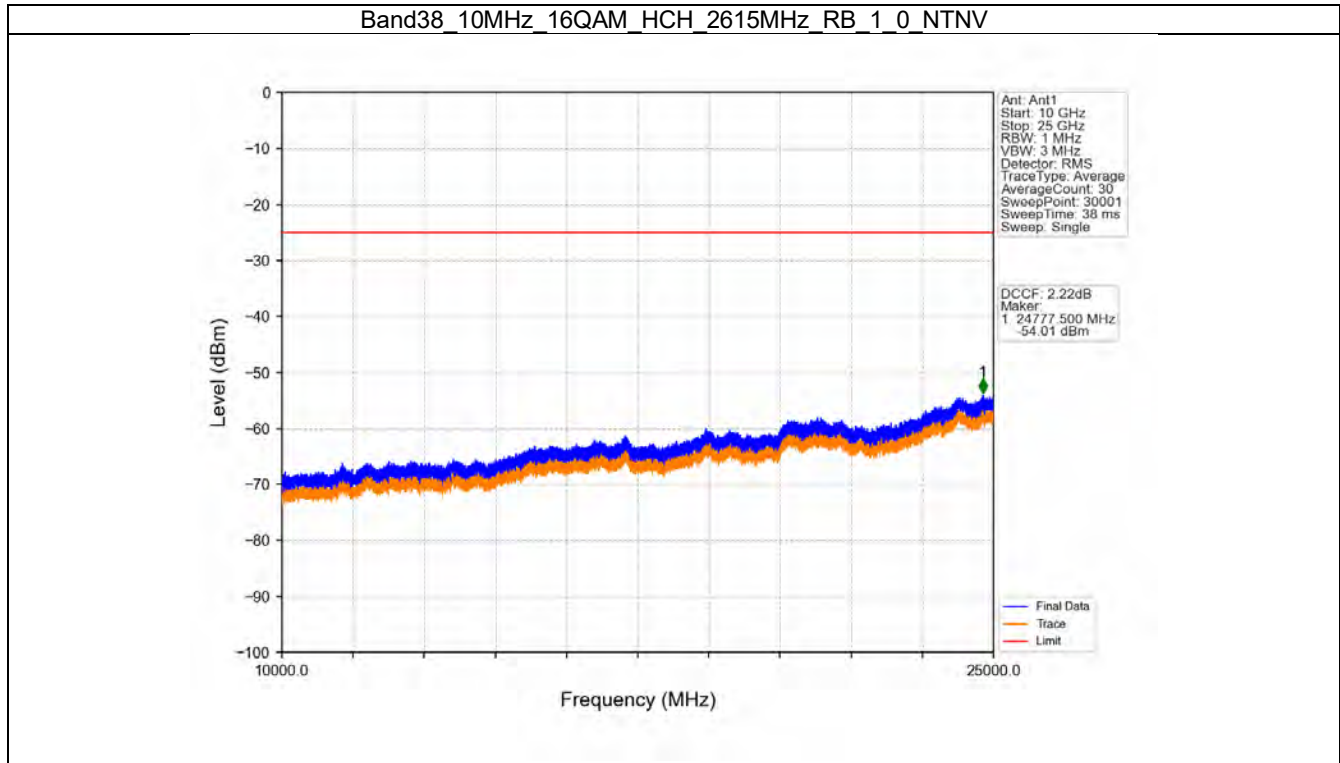


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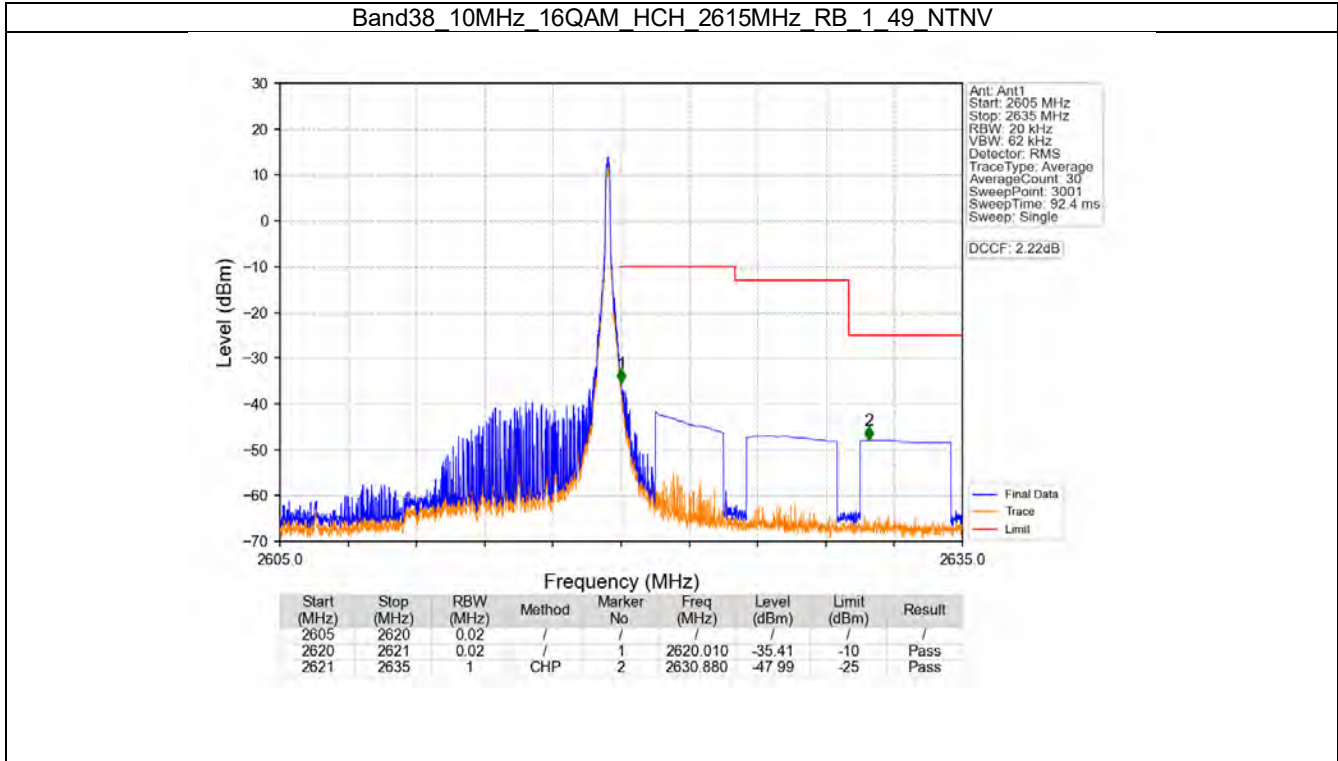


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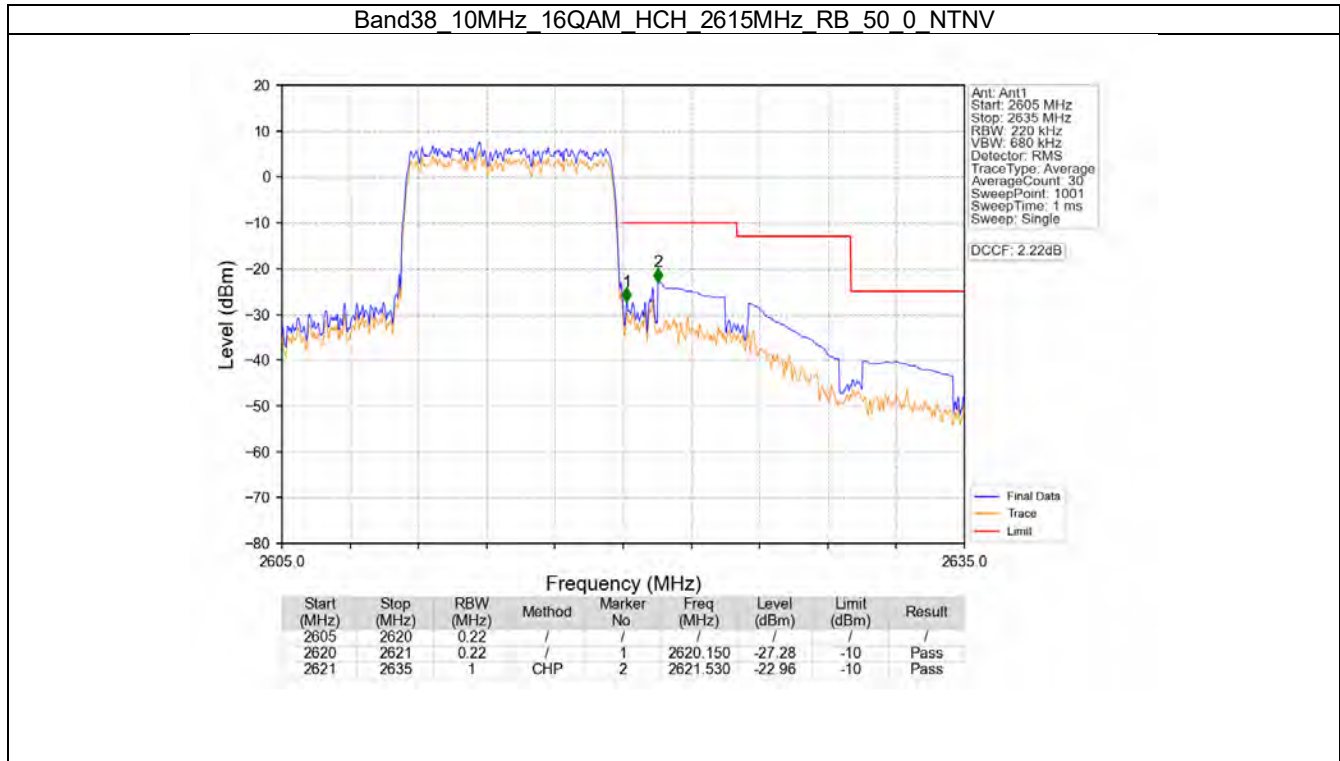


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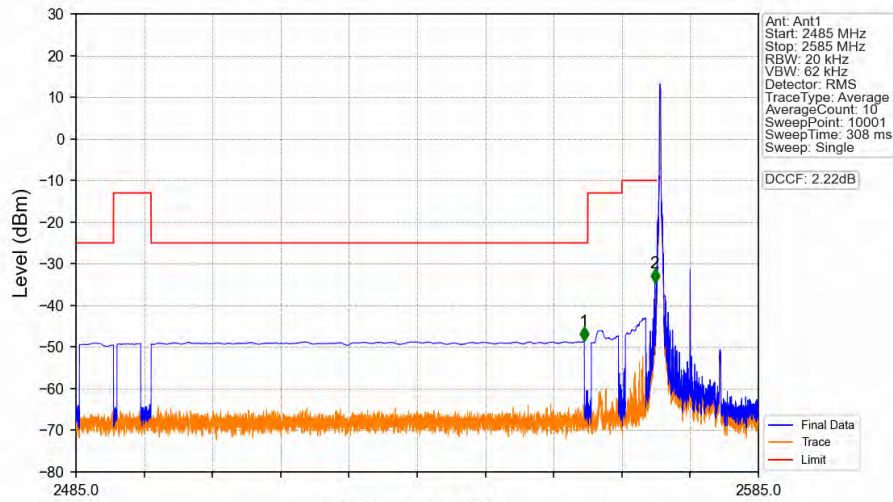
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Band38_10MHz_64QAM_LCH_2575MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2559.450	-48.54	-25	Pass
2569	2570	0.02	/	2	2569.830	-34.59	-10	Pass
2570	2585	0.02	/	/	/	/	/	/



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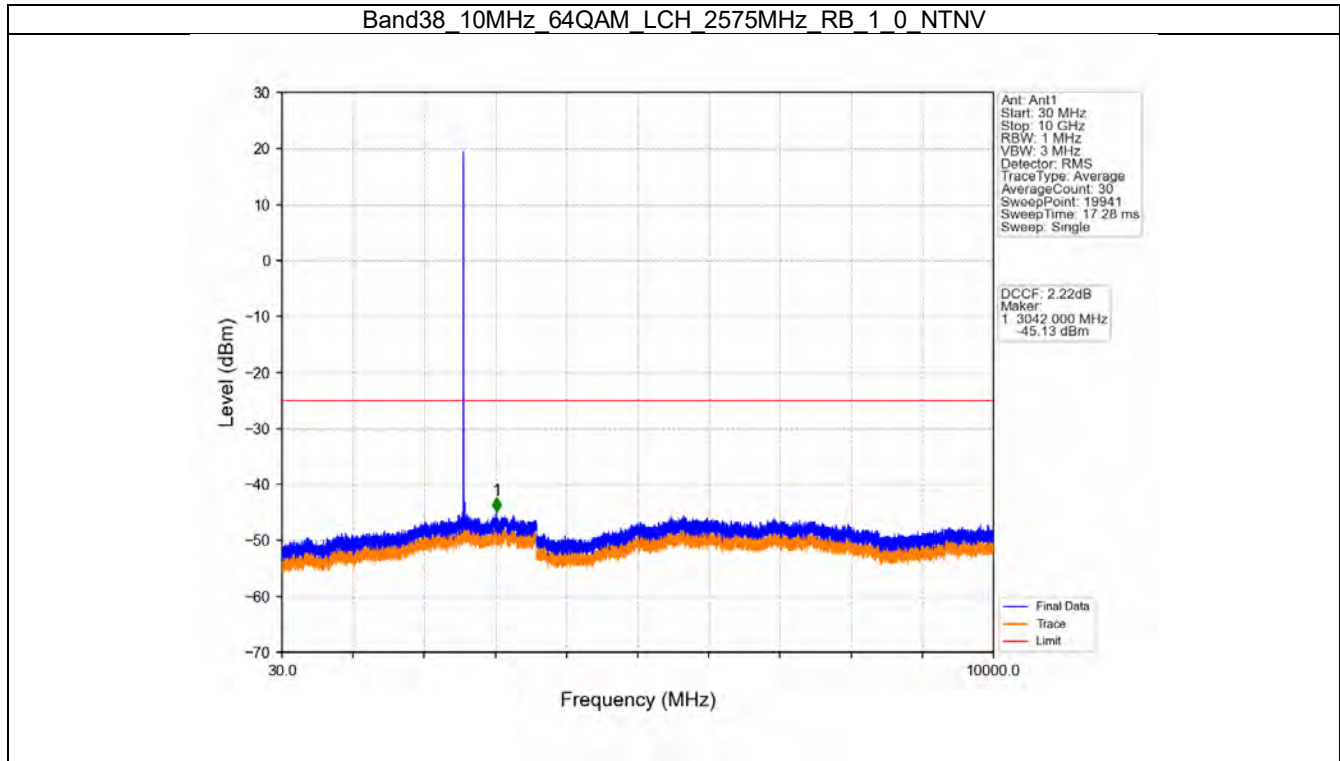


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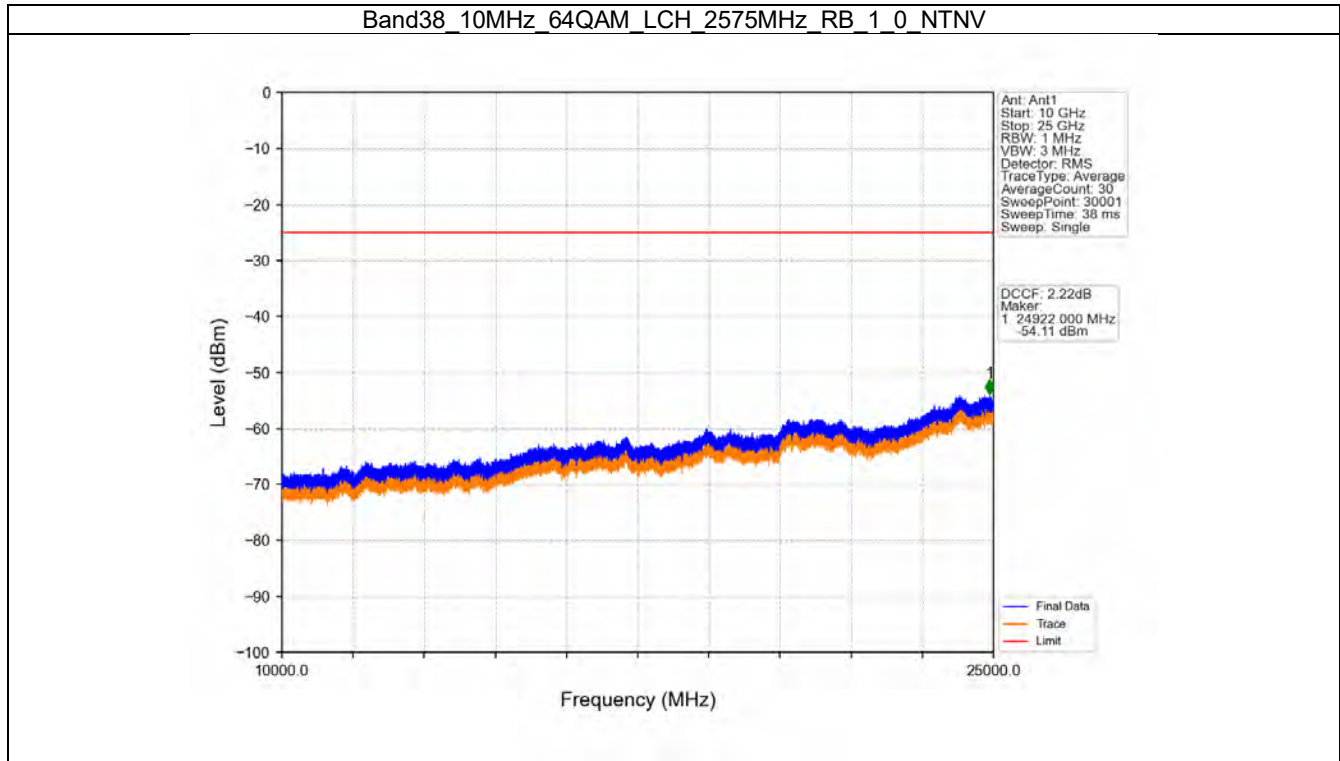


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