



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Rev.: 01

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Appendix B.13

LTE Band 38



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Shenzhen Branch
Wireless Laboratory

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1. Effective (Isotropic) Radiated Power Output Data

1.1 B38_5MHz_EIRP_Ant1

1.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2572.5	1	0	24.26	-0.70	23.56	<=33.01	Pass
			13	24.32	-0.70	23.62	<=33.01	Pass
			24	24.23	-0.70	23.53	<=33.01	Pass
		12	0	23.34	-0.70	22.64	<=33.01	Pass
			6	23.40	-0.70	22.70	<=33.01	Pass
			13	23.31	-0.70	22.61	<=33.01	Pass
		25	0	23.35	-0.70	22.65	<=33.01	Pass
	2595	1	0	24.06	-0.70	23.36	<=33.01	Pass
			13	24.32	-0.70	23.62	<=33.01	Pass
			24	24.22	-0.70	23.52	<=33.01	Pass
		12	0	23.20	-0.70	22.50	<=33.01	Pass
			6	23.26	-0.70	22.56	<=33.01	Pass
			13	23.23	-0.70	22.53	<=33.01	Pass
		25	0	23.21	-0.70	22.51	<=33.01	Pass
	2617.5	1	0	24.16	-0.70	23.46	<=33.01	Pass
			13	24.23	-0.70	23.53	<=33.01	Pass
			24	24.13	-0.70	23.43	<=33.01	Pass
		12	0	23.20	-0.70	22.50	<=33.01	Pass
			6	23.18	-0.70	22.48	<=33.01	Pass
			13	23.17	-0.70	22.47	<=33.01	Pass
		25	0	23.21	-0.70	22.51	<=33.01	Pass
16QAM	2572.5	1	0	23.35	-0.70	22.65	<=33.01	Pass
			13	23.54	-0.70	22.84	<=33.01	Pass
			24	23.24	-0.70	22.54	<=33.01	Pass
		12	0	22.27	-0.70	21.57	<=33.01	Pass
			6	22.42	-0.70	21.72	<=33.01	Pass
			13	22.32	-0.70	21.62	<=33.01	Pass
		25	0	22.36	-0.70	21.66	<=33.01	Pass
	2595	1	0	23.20	-0.70	22.50	<=33.01	Pass
			13	23.50	-0.70	22.80	<=33.01	Pass
			24	23.14	-0.70	22.44	<=33.01	Pass
		12	0	22.20	-0.70	21.50	<=33.01	Pass
			6	22.20	-0.70	21.50	<=33.01	Pass
			13	22.16	-0.70	21.46	<=33.01	Pass
		25	0	22.19	-0.70	21.49	<=33.01	Pass



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64QAM	2617.5	1	0	23.09	-0.70	22.39	<=33.01	Pass
			13	23.19	-0.70	22.49	<=33.01	Pass
			24	23.07	-0.70	22.37	<=33.01	Pass
		12	0	22.14	-0.70	21.44	<=33.01	Pass
			6	22.15	-0.70	21.45	<=33.01	Pass
			13	22.07	-0.70	21.37	<=33.01	Pass
		25	0	22.16	-0.70	21.46	<=33.01	Pass
	2572.5	1	0	22.67	-0.70	21.97	<=33.01	Pass
			13	22.72	-0.70	22.02	<=33.01	Pass
			24	21.97	-0.70	21.27	<=33.01	Pass
		12	0	21.28	-0.70	20.58	<=33.01	Pass
			6	21.22	-0.70	20.52	<=33.01	Pass
			13	21.10	-0.70	20.40	<=33.01	Pass
		25	0	21.20	-0.70	20.50	<=33.01	Pass
	2595	1	0	21.93	-0.70	21.23	<=33.01	Pass
			13	22.38	-0.70	21.68	<=33.01	Pass
			24	22.27	-0.70	21.57	<=33.01	Pass
		12	0	21.04	-0.70	20.34	<=33.01	Pass
			6	21.12	-0.70	20.42	<=33.01	Pass
			13	21.08	-0.70	20.38	<=33.01	Pass
		25	0	21.09	-0.70	20.39	<=33.01	Pass
	2617.5	1	0	22.06	-0.70	21.36	<=33.01	Pass
			13	22.30	-0.70	21.60	<=33.01	Pass
			24	22.17	-0.70	21.47	<=33.01	Pass
		12	0	20.94	-0.70	20.24	<=33.01	Pass
			6	21.09	-0.70	20.39	<=33.01	Pass
			13	21.03	-0.70	20.33	<=33.01	Pass
		25	0	21.03	-0.70	20.33	<=33.01	Pass



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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	24.41	-0.70	23.71	<=33.01	Pass
			25	24.53	-0.70	23.83	<=33.01	Pass
			49	24.26	-0.70	23.56	<=33.01	Pass
		25	0	23.46	-0.70	22.76	<=33.01	Pass
			13	23.43	-0.70	22.73	<=33.01	Pass
			25	23.39	-0.70	22.69	<=33.01	Pass
		50	0	23.37	-0.70	22.67	<=33.01	Pass
	2595	1	0	24.29	-0.70	23.59	<=33.01	Pass
			25	24.44	-0.70	23.74	<=33.01	Pass
			49	24.26	-0.70	23.56	<=33.01	Pass
		25	0	23.29	-0.70	22.59	<=33.01	Pass
			13	23.35	-0.70	22.65	<=33.01	Pass
			25	23.28	-0.70	22.58	<=33.01	Pass
		50	0	23.26	-0.70	22.56	<=33.01	Pass
	2615	1	0	24.20	-0.70	23.50	<=33.01	Pass
			25	24.45	-0.70	23.75	<=33.01	Pass
			49	24.23	-0.70	23.53	<=33.01	Pass
		25	0	23.22	-0.70	22.52	<=33.01	Pass
			13	23.27	-0.70	22.57	<=33.01	Pass
			25	23.23	-0.70	22.53	<=33.01	Pass
		50	0	23.20	-0.70	22.50	<=33.01	Pass
16QAM	2575	1	0	23.18	-0.70	22.48	<=33.01	Pass
			25	23.57	-0.70	22.87	<=33.01	Pass
			49	23.39	-0.70	22.69	<=33.01	Pass
		25	0	22.47	-0.70	21.77	<=33.01	Pass
			13	22.41	-0.70	21.71	<=33.01	Pass
			25	22.48	-0.70	21.78	<=33.01	Pass
		50	0	22.29	-0.70	21.59	<=33.01	Pass
	2595	1	0	23.09	-0.70	22.39	<=33.01	Pass
			25	23.31	-0.70	22.61	<=33.01	Pass
			49	22.99	-0.70	22.29	<=33.01	Pass
		25	0	22.35	-0.70	21.65	<=33.01	Pass
			13	22.34	-0.70	21.64	<=33.01	Pass
			25	22.26	-0.70	21.56	<=33.01	Pass
		50	0	22.22	-0.70	21.52	<=33.01	Pass
	2615	1	0	23.12	-0.70	22.42	<=33.01	Pass
			25	23.57	-0.70	22.87	<=33.01	Pass
			49	22.85	-0.70	22.15	<=33.01	Pass



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		25	0	22.23	-0.70	21.53	<=33.01	Pass	
			13	22.26	-0.70	21.56	<=33.01	Pass	
			25	22.20	-0.70	21.50	<=33.01	Pass	
		50	0	22.15	-0.70	21.45	<=33.01	Pass	
64QAM	2575	1	0	22.66	-0.70	21.96	<=33.01	Pass	
			25	22.28	-0.70	21.58	<=33.01	Pass	
			49	22.01	-0.70	21.31	<=33.01	Pass	
		25	0	21.24	-0.70	20.54	<=33.01	Pass	
			13	21.27	-0.70	20.57	<=33.01	Pass	
			25	21.29	-0.70	20.59	<=33.01	Pass	
		50	0	21.26	-0.70	20.56	<=33.01	Pass	
		2595	1	0	22.54	-0.70	21.84	<=33.01	Pass
				25	22.48	-0.70	21.78	<=33.01	Pass
	49			22.46	-0.70	21.76	<=33.01	Pass	
	25		0	21.15	-0.70	20.45	<=33.01	Pass	
			13	21.16	-0.70	20.46	<=33.01	Pass	
			25	21.13	-0.70	20.43	<=33.01	Pass	
	50		0	21.06	-0.70	20.36	<=33.01	Pass	
	2615		1	0	22.03	-0.70	21.33	<=33.01	Pass
				25	22.18	-0.70	21.48	<=33.01	Pass
		49		21.85	-0.70	21.15	<=33.01	Pass	
		25	0	21.03	-0.70	20.33	<=33.01	Pass	
			13	21.02	-0.70	20.32	<=33.01	Pass	
			25	21.06	-0.70	20.36	<=33.01	Pass	
		50	0	20.99	-0.70	20.29	<=33.01	Pass	



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1.3 B38_15MHz_EIRP

1.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2577.5	1	0	24.29	-0.70	23.59	<=33.01	Pass
			38	24.34	-0.70	23.64	<=33.01	Pass
			74	24.11	-0.70	23.41	<=33.01	Pass
		36	0	23.34	-0.70	22.64	<=33.01	Pass
			18	23.36	-0.70	22.66	<=33.01	Pass
			39	23.30	-0.70	22.60	<=33.01	Pass
		75	0	23.31	-0.70	22.61	<=33.01	Pass
	2595	1	0	24.24	-0.70	23.54	<=33.01	Pass
			38	24.32	-0.70	23.62	<=33.01	Pass
			74	24.12	-0.70	23.42	<=33.01	Pass
		36	0	23.27	-0.70	22.57	<=33.01	Pass
			18	23.27	-0.70	22.57	<=33.01	Pass
			39	23.21	-0.70	22.51	<=33.01	Pass
		75	0	23.25	-0.70	22.55	<=33.01	Pass
	2612.5	1	0	24.31	-0.70	23.61	<=33.01	Pass
			38	24.30	-0.70	23.60	<=33.01	Pass
			74	24.02	-0.70	23.32	<=33.01	Pass
		36	0	23.30	-0.70	22.60	<=33.01	Pass
			18	23.28	-0.70	22.58	<=33.01	Pass
			39	23.21	-0.70	22.51	<=33.01	Pass
		75	0	23.24	-0.70	22.54	<=33.01	Pass
16QAM	2577.5	1	0	23.41	-0.70	22.71	<=33.01	Pass
			38	23.15	-0.70	22.45	<=33.01	Pass
			74	23.12	-0.70	22.42	<=33.01	Pass
		36	0	22.34	-0.70	21.64	<=33.01	Pass
			18	22.28	-0.70	21.58	<=33.01	Pass
			39	22.23	-0.70	21.53	<=33.01	Pass
		75	0	22.35	-0.70	21.65	<=33.01	Pass
	2595	1	0	22.99	-0.70	22.29	<=33.01	Pass
			38	23.02	-0.70	22.32	<=33.01	Pass
			74	22.93	-0.70	22.23	<=33.01	Pass
		36	0	22.24	-0.70	21.54	<=33.01	Pass
			18	22.18	-0.70	21.48	<=33.01	Pass
			39	22.17	-0.70	21.47	<=33.01	Pass
		75	0	22.19	-0.70	21.49	<=33.01	Pass
	2612.5	1	0	23.52	-0.70	22.82	<=33.01	Pass
			38	23.25	-0.70	22.55	<=33.01	Pass
			74	22.97	-0.70	22.27	<=33.01	Pass



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		36	0	22.18	-0.70	21.48	<=33.01	Pass	
			18	22.22	-0.70	21.52	<=33.01	Pass	
			39	22.15	-0.70	21.45	<=33.01	Pass	
		75	0	22.18	-0.70	21.48	<=33.01	Pass	
64QAM	2577.5	1	0	22.50	-0.70	21.80	<=33.01	Pass	
			38	21.86	-0.70	21.16	<=33.01	Pass	
			74	22.35	-0.70	21.65	<=33.01	Pass	
		36	0	21.27	-0.70	20.57	<=33.01	Pass	
			18	21.31	-0.70	20.61	<=33.01	Pass	
			39	21.20	-0.70	20.50	<=33.01	Pass	
		75	0	21.28	-0.70	20.58	<=33.01	Pass	
		2595	1	0	22.45	-0.70	21.75	<=33.01	Pass
				38	22.53	-0.70	21.83	<=33.01	Pass
	74			22.37	-0.70	21.67	<=33.01	Pass	
	36		0	21.16	-0.70	20.46	<=33.01	Pass	
			18	21.15	-0.70	20.45	<=33.01	Pass	
			39	21.09	-0.70	20.39	<=33.01	Pass	
	75		0	21.20	-0.70	20.50	<=33.01	Pass	
	2612.5		1	0	22.02	-0.70	21.32	<=33.01	Pass
				38	22.05	-0.70	21.35	<=33.01	Pass
		74		21.89	-0.70	21.19	<=33.01	Pass	
		36	0	21.15	-0.70	20.45	<=33.01	Pass	
			18	21.11	-0.70	20.41	<=33.01	Pass	
			39	21.03	-0.70	20.33	<=33.01	Pass	
		75	0	21.11	-0.70	20.41	<=33.01	Pass	



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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	24.25	-0.70	23.55	<=33.01	Pass
			50	24.40	-0.70	23.70	<=33.01	Pass
			99	24.12	-0.70	23.42	<=33.01	Pass
		50	0	23.26	-0.70	22.56	<=33.01	Pass
			25	23.28	-0.70	22.58	<=33.01	Pass
			50	23.18	-0.70	22.48	<=33.01	Pass
		100	0	23.28	-0.70	22.58	<=33.01	Pass
	2595	1	0	24.09	-0.70	23.39	<=33.01	Pass
			50	24.39	-0.70	23.69	<=33.01	Pass
			99	24.11	-0.70	23.41	<=33.01	Pass
		50	0	23.20	-0.70	22.50	<=33.01	Pass
			25	23.19	-0.70	22.49	<=33.01	Pass
			50	23.14	-0.70	22.44	<=33.01	Pass
		100	0	23.17	-0.70	22.47	<=33.01	Pass
	2610	1	0	24.04	-0.70	23.34	<=33.01	Pass
			50	24.22	-0.70	23.52	<=33.01	Pass
			99	23.96	-0.70	23.26	<=33.01	Pass
		50	0	23.17	-0.70	22.47	<=33.01	Pass
			25	23.17	-0.70	22.47	<=33.01	Pass
			50	23.11	-0.70	22.41	<=33.01	Pass
		100	0	23.15	-0.70	22.45	<=33.01	Pass
16QAM	2580	1	0	23.51	-0.70	22.81	<=33.01	Pass
			50	23.34	-0.70	22.64	<=33.01	Pass
			99	23.05	-0.70	22.35	<=33.01	Pass
		50	0	22.28	-0.70	21.58	<=33.01	Pass
			25	22.24	-0.70	21.54	<=33.01	Pass
			50	22.20	-0.70	21.50	<=33.01	Pass
		100	0	22.21	-0.70	21.51	<=33.01	Pass
	2595	1	0	22.88	-0.70	22.18	<=33.01	Pass
			50	23.50	-0.70	22.80	<=33.01	Pass
			99	22.85	-0.70	22.15	<=33.01	Pass
		50	0	22.15	-0.70	21.45	<=33.01	Pass
			25	22.19	-0.70	21.49	<=33.01	Pass
			50	22.13	-0.70	21.43	<=33.01	Pass
		100	0	22.16	-0.70	21.46	<=33.01	Pass
	2610	1	0	23.04	-0.70	22.34	<=33.01	Pass
			50	23.42	-0.70	22.72	<=33.01	Pass
			99	23.01	-0.70	22.31	<=33.01	Pass



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64QAM	2580	50	0	22.07	-0.70	21.37	<=33.01	Pass
			25	22.11	-0.70	21.41	<=33.01	Pass
			50	22.08	-0.70	21.38	<=33.01	Pass
		100	0	22.16	-0.70	21.46	<=33.01	Pass
			0	22.20	-0.70	21.50	<=33.01	Pass
			50	22.56	-0.70	21.86	<=33.01	Pass
			99	22.03	-0.70	21.33	<=33.01	Pass
		50	0	21.14	-0.70	20.44	<=33.01	Pass
			25	21.16	-0.70	20.46	<=33.01	Pass
			50	21.08	-0.70	20.38	<=33.01	Pass
		100	0	21.14	-0.70	20.44	<=33.01	Pass
	2595	1	0	22.02	-0.70	21.32	<=33.01	Pass
			50	22.25	-0.70	21.55	<=33.01	Pass
			99	21.56	-0.70	20.86	<=33.01	Pass
		50	0	21.08	-0.70	20.38	<=33.01	Pass
			25	21.07	-0.70	20.37	<=33.01	Pass
			50	21.03	-0.70	20.33	<=33.01	Pass
		100	0	21.05	-0.70	20.35	<=33.01	Pass
	2610	1	0	21.87	-0.70	21.17	<=33.01	Pass
			50	22.26	-0.70	21.56	<=33.01	Pass
			99	22.05	-0.70	21.35	<=33.01	Pass
		50	0	21.02	-0.70	20.32	<=33.01	Pass
			25	21.08	-0.70	20.38	<=33.01	Pass
			50	20.97	-0.70	20.27	<=33.01	Pass
		100	0	21.02	-0.70	20.32	<=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	3.6	-25.764	-0.0100	/	Pass
					3.84	-58.680	-0.0228	/	Pass
					4.3	-52.843	-0.0205	/	Pass
				-30	3.84	-56.562	-0.0220	/	Pass
				-20	3.84	-56.434	-0.0219	/	Pass
				-10	3.84	-59.509	-0.0231	/	Pass
				0	3.84	-54.932	-0.0214	/	Pass
				10	3.84	-12.088	-0.0047	/	Pass
				30	3.84	-14.291	-0.0056	/	Pass
				40	3.84	-3.605	-0.0014	/	Pass
				50	3.84	6.623	0.0026	/	Pass
	2595	25	0	20	3.6	13.590	0.0052	/	Pass
					3.84	23.074	0.0089	/	Pass
					4.3	12.131	0.0047	/	Pass
				-30	3.84	11.373	0.0044	/	Pass
				-20	3.84	-2.203	-0.0008	/	Pass
				-10	3.84	4.878	0.0019	/	Pass
				0	3.84	16.394	0.0063	/	Pass
				10	3.84	23.146	0.0089	/	Pass
				30	3.84	7.982	0.0031	/	Pass
				40	3.84	11.244	0.0043	/	Pass
				50	3.84	13.289	0.0051	/	Pass
	2617.5	25	0	20	3.6	0.529	0.0002	/	Pass
					3.84	-16.551	-0.0063	/	Pass
					4.3	-12.875	-0.0049	/	Pass
				-30	3.84	-10.901	-0.0042	/	Pass
				-20	3.84	-12.646	-0.0048	/	Pass
				-10	3.84	-16.651	-0.0064	/	Pass
				0	3.84	-13.061	-0.0050	/	Pass
				10	3.84	-12.231	-0.0047	/	Pass
				30	3.84	-8.140	-0.0031	/	Pass
				40	3.84	-16.680	-0.0064	/	Pass
				50	3.84	-21.386	-0.0082	/	Pass
16QAM	2572.5	25	0	20	3.6	20.170	0.0078	/	Pass
					3.84	13.003	0.0051	/	Pass



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64QAM					4.3	14.534	0.0056	/	Pass
				-30	3.84	22.845	0.0089	/	Pass
				-20	3.84	21.744	0.0085	/	Pass
				-10	3.84	28.596	0.0111	/	Pass
				0	3.84	24.033	0.0093	/	Pass
				10	3.84	50.783	0.0197	/	Pass
				30	3.84	41.842	0.0163	/	Pass
				40	3.84	40.197	0.0156	/	Pass
				50	3.84	50.526	0.0196	/	Pass
	2595	25	0	20	3.6	0.644	0.0002	/	Pass
					3.84	10.657	0.0041	/	Pass
					4.3	9.542	0.0037	/	Pass
				-30	3.84	7.653	0.0029	/	Pass
				-20	3.84	3.119	0.0012	/	Pass
				-10	3.84	10.471	0.0040	/	Pass
				0	3.84	21.787	0.0084	/	Pass
				10	3.84	18.311	0.0071	/	Pass
				30	3.84	23.618	0.0091	/	Pass
				40	3.84	20.084	0.0077	/	Pass
				50	3.84	27.466	0.0106	/	Pass
	2617.5	25	0	20	3.6	-22.101	-0.0084	/	Pass
					3.84	-17.910	-0.0068	/	Pass
					4.3	-19.927	-0.0076	/	Pass
				-30	3.84	-12.975	-0.0050	/	Pass
				-20	3.84	-5.393	-0.0021	/	Pass
				-10	3.84	-10.872	-0.0042	/	Pass
				0	3.84	-2.561	-0.0010	/	Pass
				10	3.84	-0.043	0.0000	/	Pass
				30	3.84	6.151	0.0023	/	Pass
				40	3.84	3.977	0.0015	/	Pass
				50	3.84	6.866	0.0026	/	Pass
	2572.5	25	0	20	3.6	39.067	0.0152	/	Pass
					3.84	49.009	0.0191	/	Pass
					4.3	57.292	0.0223	/	Pass
				-30	3.84	61.312	0.0238	/	Pass
				-20	3.84	40.197	0.0156	/	Pass
				-10	3.84	41.199	0.0160	/	Pass
				0	3.84	33.503	0.0130	/	Pass
				10	3.84	31.843	0.0124	/	Pass
				30	3.84	35.276	0.0137	/	Pass
				40	3.84	33.603	0.0131	/	Pass
				50	3.84	41.084	0.0160	/	Pass
	2595	25	0	20	3.6	26.622	0.0103	/	Pass
					3.84	27.180	0.0105	/	Pass
					4.3	21.229	0.0082	/	Pass
				-30	3.84	19.040	0.0073	/	Pass
				-20	3.84	17.738	0.0068	/	Pass
				-10	3.84	18.740	0.0072	/	Pass



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				0	3.84	14.777	0.0057	/	Pass
				10	3.84	22.173	0.0085	/	Pass
				30	3.84	8.068	0.0031	/	Pass
				40	3.84	7.997	0.0031	/	Pass
				50	3.84	20.242	0.0078	/	Pass
	2617.5	25	0	20	3.6	3.276	0.0013	/	Pass
					3.84	15.922	0.0061	/	Pass
					4.3	11.315	0.0043	/	Pass
				-30	3.84	2.346	0.0009	/	Pass
				-20	3.84	5.136	0.0020	/	Pass
				-10	3.84	3.290	0.0013	/	Pass
				0	3.84	-12.145	-0.0046	/	Pass
				10	3.84	-12.918	-0.0049	/	Pass
				30	3.84	-11.730	-0.0045	/	Pass
				40	3.84	-7.153	-0.0027	/	Pass
				50	3.84	-9.012	-0.0034	/	Pass



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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	3.6	-12.546	-0.0049	/	Pass
					3.84	-9.027	-0.0035	/	Pass
					4.3	-4.663	-0.0018	/	Pass
				-30	3.84	-10.729	-0.0042	/	Pass
				-20	3.84	-13.275	-0.0052	/	Pass
				-10	3.84	-13.533	-0.0053	/	Pass
				0	3.84	2.003	0.0008	/	Pass
				10	3.84	-9.041	-0.0035	/	Pass
				30	3.84	-7.896	-0.0031	/	Pass
				40	3.84	-7.710	-0.0030	/	Pass
				50	3.84	-11.630	-0.0045	/	Pass
	2595	50	0	20	3.6	-4.148	-0.0016	/	Pass
					3.84	-8.311	-0.0032	/	Pass
					4.3	-11.330	-0.0044	/	Pass
				-30	3.84	1.130	0.0004	/	Pass
				-20	3.84	-4.735	-0.0018	/	Pass
				-10	3.84	-9.899	-0.0038	/	Pass
				0	3.84	-7.997	-0.0031	/	Pass
				10	3.84	-8.497	-0.0033	/	Pass
				30	3.84	-3.490	-0.0013	/	Pass
				40	3.84	-9.971	-0.0038	/	Pass
				50	3.84	-12.517	-0.0048	/	Pass
	2615	50	0	20	3.6	-1.345	-0.0005	/	Pass
					3.84	-5.851	-0.0022	/	Pass
					4.3	-1.545	-0.0006	/	Pass
				-30	3.84	-1.287	-0.0005	/	Pass
				-20	3.84	-13.075	-0.0050	/	Pass
				-10	3.84	-1.960	-0.0007	/	Pass
				0	3.84	-2.460	-0.0009	/	Pass
				10	3.84	-5.293	-0.0020	/	Pass
				30	3.84	-5.980	-0.0023	/	Pass
				40	3.84	-8.798	-0.0034	/	Pass
				50	3.84	-0.286	-0.0001	/	Pass
16QAM	2575	50	0	20	3.6	-14.820	-0.0058	/	Pass
					3.84	-7.410	-0.0029	/	Pass
					4.3	-17.753	-0.0069	/	Pass
				-30	3.84	-11.244	-0.0044	/	Pass
				-20	3.84	-24.047	-0.0093	/	Pass



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				-10	3.84	-10.600	-0.0041	/	Pass
				0	3.84	-10.114	-0.0039	/	Pass
				10	3.84	-2.074	-0.0008	/	Pass
				30	3.84	-12.202	-0.0047	/	Pass
				40	3.84	-14.391	-0.0056	/	Pass
				50	3.84	-15.435	-0.0060	/	Pass
	2595	50	0	20	3.6	-9.313	-0.0036	/	Pass
					3.84	-9.756	-0.0038	/	Pass
					4.3	-6.895	-0.0027	/	Pass
				-30	3.84	-11.501	-0.0044	/	Pass
				-20	3.84	-9.484	-0.0037	/	Pass
				-10	3.84	-4.535	-0.0017	/	Pass
				0	3.84	-5.965	-0.0023	/	Pass
				10	3.84	-7.238	-0.0028	/	Pass
				30	3.84	-6.709	-0.0026	/	Pass
				40	3.84	-11.845	-0.0046	/	Pass
				50	3.84	-5.064	-0.0020	/	Pass
	2615	50	0	20	3.6	-6.180	-0.0024	/	Pass
					3.84	-3.419	-0.0013	/	Pass
					4.3	1.974	0.0008	/	Pass
				-30	3.84	-3.905	-0.0015	/	Pass
				-20	3.84	-0.343	-0.0001	/	Pass
				-10	3.84	2.189	0.0008	/	Pass
				0	3.84	-10.300	-0.0039	/	Pass
				10	3.84	-5.107	-0.0020	/	Pass
				30	3.84	-14.234	-0.0054	/	Pass
				40	3.84	-7.424	-0.0028	/	Pass
				50	3.84	-9.356	-0.0036	/	Pass
64QAM	2575	50	0	20	3.6	-13.475	-0.0052	/	Pass
					3.84	-10.471	-0.0041	/	Pass
					4.3	-13.518	-0.0052	/	Pass
				-30	3.84	-10.328	-0.0040	/	Pass
				-20	3.84	-13.061	-0.0051	/	Pass
				-10	3.84	-5.879	-0.0023	/	Pass
				0	3.84	-5.121	-0.0020	/	Pass
				10	3.84	-4.148	-0.0016	/	Pass
				30	3.84	-12.646	-0.0049	/	Pass
				40	3.84	-14.176	-0.0055	/	Pass
				50	3.84	-12.445	-0.0048	/	Pass
	2595	50	0	20	3.6	-2.990	-0.0012	/	Pass
					3.84	-0.329	-0.0001	/	Pass
					4.3	-11.916	-0.0046	/	Pass
				-30	3.84	-13.433	-0.0052	/	Pass
				-20	3.84	-5.522	-0.0021	/	Pass
				-10	3.84	-7.482	-0.0029	/	Pass
				0	3.84	-13.118	-0.0051	/	Pass
				10	3.84	-9.327	-0.0036	/	Pass
				30	3.84	-7.339	-0.0028	/	Pass



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	2615	50	0	40	3.84	-5.379	-0.0021	/	Pass
				50	3.84	-9.913	-0.0038	/	Pass
				20	3.6	-2.375	-0.0009	/	Pass
					3.84	-6.351	-0.0024	/	Pass
					4.3	-9.184	-0.0035	/	Pass
				-30	3.84	-3.705	-0.0014	/	Pass
				-20	3.84	-5.293	-0.0020	/	Pass
				-10	3.84	-9.313	-0.0036	/	Pass
				0	3.84	3.433	0.0013	/	Pass
				10	3.84	0.229	0.0001	/	Pass
				30	3.84	-5.236	-0.0020	/	Pass
				40	3.84	-7.954	-0.0030	/	Pass
				50	3.84	-3.133	-0.0012	/	Pass



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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	3.6	-10.929	-0.0042	/	Pass
					3.84	-6.838	-0.0027	/	Pass
					4.3	-7.896	-0.0031	/	Pass
				-30	3.84	-15.693	-0.0061	/	Pass
				-20	3.84	-8.426	-0.0033	/	Pass
				-10	3.84	-6.166	-0.0024	/	Pass
				0	3.84	-16.980	-0.0066	/	Pass
				10	3.84	-6.967	-0.0027	/	Pass
				30	3.84	-1.974	-0.0008	/	Pass
				40	3.84	-9.427	-0.0037	/	Pass
				50	3.84	-11.587	-0.0045	/	Pass
	2595	75	0	20	3.6	-7.110	-0.0027	/	Pass
					3.84	-5.665	-0.0022	/	Pass
					4.3	-6.666	-0.0026	/	Pass
				-30	3.84	-4.678	-0.0018	/	Pass
				-20	3.84	-3.319	-0.0013	/	Pass
				-10	3.84	-4.549	-0.0018	/	Pass
				0	3.84	-9.384	-0.0036	/	Pass
				10	3.84	-1.159	-0.0004	/	Pass
				30	3.84	-4.735	-0.0018	/	Pass
				40	3.84	-1.388	-0.0005	/	Pass
				50	3.84	0.043	0.0000	/	Pass
	2612.5	75	0	20	3.6	-1.330	-0.0005	/	Pass
					3.84	-9.842	-0.0038	/	Pass
					4.3	-11.258	-0.0043	/	Pass
				-30	3.84	-4.420	-0.0017	/	Pass
				-20	3.84	-10.958	-0.0042	/	Pass
				-10	3.84	-7.725	-0.0030	/	Pass
				0	3.84	-4.706	-0.0018	/	Pass
				10	3.84	-3.633	-0.0014	/	Pass
				30	3.84	-6.666	-0.0026	/	Pass
				40	3.84	3.490	0.0013	/	Pass
				50	3.84	-9.999	-0.0038	/	Pass
16QAM	2577.5	75	0	20	3.6	-6.080	-0.0024	/	Pass
					3.84	-5.178	-0.0020	/	Pass
					4.3	-6.881	-0.0027	/	Pass
				-30	3.84	-6.609	-0.0026	/	Pass
				-20	3.84	-13.289	-0.0052	/	Pass



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				-10	3.84	-0.687	-0.0003	/	Pass
				0	3.84	-2.503	-0.0010	/	Pass
				10	3.84	-6.695	-0.0026	/	Pass
				30	3.84	-11.201	-0.0043	/	Pass
				40	3.84	-6.351	-0.0025	/	Pass
				50	3.84	-4.520	-0.0018	/	Pass
	2595	75	0	20	3.6	1.888	0.0007	/	Pass
					3.84	1.574	0.0006	/	Pass
					4.3	-5.922	-0.0023	/	Pass
				-30	3.84	-7.038	-0.0027	/	Pass
				-20	3.84	1.831	0.0007	/	Pass
				-10	3.84	-10.300	-0.0040	/	Pass
				0	3.84	-4.950	-0.0019	/	Pass
				10	3.84	0.758	0.0003	/	Pass
				30	3.84	0.358	0.0001	/	Pass
				40	3.84	-4.649	-0.0018	/	Pass
				50	3.84	0.243	0.0001	/	Pass
	2612.5	75	0	20	3.6	-16.909	-0.0065	/	Pass
					3.84	-8.898	-0.0034	/	Pass
					4.3	-6.766	-0.0026	/	Pass
				-30	3.84	-7.739	-0.0030	/	Pass
				-20	3.84	-5.822	-0.0022	/	Pass
				-10	3.84	-5.164	-0.0020	/	Pass
				0	3.84	0.472	0.0002	/	Pass
				10	3.84	-9.041	-0.0035	/	Pass
				30	3.84	-3.834	-0.0015	/	Pass
				40	3.84	-7.753	-0.0030	/	Pass
				50	3.84	-3.748	-0.0014	/	Pass
64QAM	2577.5	75	0	20	3.6	-2.103	-0.0008	/	Pass
					3.84	-6.909	-0.0027	/	Pass
					4.3	-1.931	-0.0007	/	Pass
				-30	3.84	1.903	0.0007	/	Pass
				-20	3.84	-18.954	-0.0074	/	Pass
				-10	3.84	-11.101	-0.0043	/	Pass
				0	3.84	-14.877	-0.0058	/	Pass
				10	3.84	-7.524	-0.0029	/	Pass
				30	3.84	-8.254	-0.0032	/	Pass
				40	3.84	-7.381	-0.0029	/	Pass
				50	3.84	-5.608	-0.0022	/	Pass
	2595	75	0	20	3.6	-5.980	-0.0023	/	Pass
					3.84	-4.392	-0.0017	/	Pass
					4.3	-7.954	-0.0031	/	Pass
				-30	3.84	-5.050	-0.0019	/	Pass
				-20	3.84	-2.804	-0.0011	/	Pass
				-10	3.84	-2.432	-0.0009	/	Pass
				0	3.84	2.160	0.0008	/	Pass
				10	3.84	0.000	0.0000	/	Pass
				30	3.84	-5.035	-0.0019	/	Pass



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	2612.5	75	0	40	3.84	-2.933	-0.0011	/	Pass
				50	3.84	-1.216	-0.0005	/	Pass
				20	3.6	-4.992	-0.0019	/	Pass
					3.84	-5.736	-0.0022	/	Pass
					4.3	-8.569	-0.0033	/	Pass
				-30	3.84	-0.157	-0.0001	/	Pass
				-20	3.84	-15.221	-0.0058	/	Pass
				-10	3.84	-5.751	-0.0022	/	Pass
				0	3.84	-6.523	-0.0025	/	Pass
				10	3.84	-4.778	-0.0018	/	Pass
				30	3.84	-2.789	-0.0011	/	Pass
				40	3.84	-7.281	-0.0028	/	Pass
				50	3.84	-2.317	-0.0009	/	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	3.6	-6.194	-0.0024	/	Pass
					3.84	-5.708	-0.0022	/	Pass
					4.3	-9.227	-0.0036	/	Pass
				-30	3.84	-6.323	-0.0025	/	Pass
				-20	3.84	-12.918	-0.0050	/	Pass
				-10	3.84	-8.154	-0.0032	/	Pass
				0	3.84	-12.088	-0.0047	/	Pass
				10	3.84	-17.180	-0.0067	/	Pass
				30	3.84	-2.875	-0.0011	/	Pass
				40	3.84	-15.063	-0.0058	/	Pass
				50	3.84	-13.061	-0.0051	/	Pass
	2595	100	0	20	3.6	-12.102	-0.0047	/	Pass
					3.84	-12.918	-0.0050	/	Pass
					4.3	-11.015	-0.0042	/	Pass
				-30	3.84	-12.059	-0.0046	/	Pass
				-20	3.84	-9.999	-0.0039	/	Pass
				-10	3.84	-6.223	-0.0024	/	Pass
				0	3.84	-4.549	-0.0018	/	Pass
				10	3.84	-16.222	-0.0063	/	Pass
				30	3.84	-17.538	-0.0068	/	Pass
				40	3.84	-5.035	-0.0019	/	Pass
				50	3.84	-1.802	-0.0007	/	Pass
	2610	100	0	20	3.6	-8.440	-0.0032	/	Pass
					3.84	-5.064	-0.0019	/	Pass
					4.3	-6.809	-0.0026	/	Pass
				-30	3.84	-8.512	-0.0033	/	Pass
				-20	3.84	-2.317	-0.0009	/	Pass
				-10	3.84	-1.359	-0.0005	/	Pass
				0	3.84	1.001	0.0004	/	Pass
				10	3.84	-1.974	-0.0008	/	Pass
				30	3.84	-8.154	-0.0031	/	Pass
				40	3.84	-3.633	-0.0014	/	Pass
				50	3.84	-5.608	-0.0021	/	Pass
16QAM	2580	100	0	20	3.6	-12.817	-0.0050	/	Pass
					3.84	-3.676	-0.0014	/	Pass
					4.3	-10.042	-0.0039	/	Pass
				-30	3.84	-13.762	-0.0053	/	Pass
				-20	3.84	-4.764	-0.0018	/	Pass



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				-10	3.84	-5.336	-0.0021	/	Pass
				0	3.84	-14.749	-0.0057	/	Pass
				10	3.84	-12.860	-0.0050	/	Pass
				30	3.84	-11.745	-0.0046	/	Pass
				40	3.84	-10.986	-0.0043	/	Pass
				50	3.84	-3.619	-0.0014	/	Pass
	2595	100	0	20	3.6	-8.411	-0.0032	/	Pass
					3.84	-3.591	-0.0014	/	Pass
					4.3	-4.206	-0.0016	/	Pass
				-30	3.84	-8.397	-0.0032	/	Pass
				-20	3.84	-7.496	-0.0029	/	Pass
				-10	3.84	-11.315	-0.0044	/	Pass
				0	3.84	-16.766	-0.0065	/	Pass
				10	3.84	-13.361	-0.0051	/	Pass
				30	3.84	-7.653	-0.0029	/	Pass
				40	3.84	-10.042	-0.0039	/	Pass
				50	3.84	-10.958	-0.0042	/	Pass
	2610	100	0	20	3.6	-5.579	-0.0021	/	Pass
					3.84	-9.298	-0.0036	/	Pass
					4.3	-10.285	-0.0039	/	Pass
				-30	3.84	-2.289	-0.0009	/	Pass
				-20	3.84	-9.198	-0.0035	/	Pass
				-10	3.84	-4.263	-0.0016	/	Pass
				0	3.84	-2.847	-0.0011	/	Pass
				10	3.84	2.604	0.0010	/	Pass
				30	3.84	-3.133	-0.0012	/	Pass
				40	3.84	-4.034	-0.0015	/	Pass
				50	3.84	-1.616	-0.0006	/	Pass
64QAM	2580	100	0	20	3.6	-5.136	-0.0020	/	Pass
					3.84	-5.307	-0.0021	/	Pass
					4.3	-11.358	-0.0044	/	Pass
				-30	3.84	-11.673	-0.0045	/	Pass
				-20	3.84	-17.953	-0.0070	/	Pass
				-10	3.84	-7.396	-0.0029	/	Pass
				0	3.84	-10.386	-0.0040	/	Pass
				10	3.84	-8.583	-0.0033	/	Pass
				30	3.84	-9.985	-0.0039	/	Pass
				40	3.84	-10.085	-0.0039	/	Pass
				50	3.84	-5.035	-0.0020	/	Pass
	2595	100	0	20	3.6	-8.268	-0.0032	/	Pass
					3.84	-17.581	-0.0068	/	Pass
					4.3	-9.527	-0.0037	/	Pass
				-30	3.84	-12.903	-0.0050	/	Pass
				-20	3.84	-9.971	-0.0038	/	Pass
				-10	3.84	-9.799	-0.0038	/	Pass
				0	3.84	-13.976	-0.0054	/	Pass
				10	3.84	-3.777	-0.0015	/	Pass
				30	3.84	-12.045	-0.0046	/	Pass



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	2610	100	0	40	3.84	-3.605	-0.0014	/	Pass
				50	3.84	-14.620	-0.0056	/	Pass
				20	3.6	-6.194	-0.0024	/	Pass
					3.84	-13.418	-0.0051	/	Pass
					4.3	-10.014	-0.0038	/	Pass
				-30	3.84	-6.881	-0.0026	/	Pass
				-20	3.84	-7.653	-0.0029	/	Pass
				-10	3.84	-6.895	-0.0026	/	Pass
				0	3.84	-10.500	-0.0040	/	Pass
				10	3.84	-2.246	-0.0009	/	Pass
				30	3.84	-8.612	-0.0033	/	Pass
				40	3.84	-9.170	-0.0035	/	Pass
				50	3.84	-1.445	-0.0006	/	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	4.543	/	Pass
		2595	25	0	4.549	/	Pass
		2617.5	25	0	4.539	/	Pass
	16QAM	2572.5	25	0	4.561	/	Pass
		2595	25	0	4.534	/	Pass
		2617.5	25	0	4.530	/	Pass
	64QAM	2572.5	25	0	4.548	/	Pass
		2595	25	0	4.539	/	Pass
		2617.5	25	0	4.547	/	Pass
10	QPSK	2575	50	0	9.068	/	Pass
		2595	50	0	9.061	/	Pass
		2615	50	0	9.093	/	Pass
	16QAM	2575	50	0	9.075	/	Pass
		2595	50	0	9.053	/	Pass
		2615	50	0	9.065	/	Pass
	64QAM	2575	50	0	9.080	/	Pass
		2595	50	0	9.067	/	Pass
		2615	50	0	9.050	/	Pass
15	QPSK	2577.5	75	0	13.606	/	Pass
		2595	75	0	13.574	/	Pass
		2612.5	75	0	13.562	/	Pass
	16QAM	2577.5	75	0	13.578	/	Pass
		2595	75	0	13.608	/	Pass
		2612.5	75	0	13.638	/	Pass
	64QAM	2577.5	75	0	13.578	/	Pass
		2595	75	0	13.617	/	Pass
		2612.5	75	0	13.586	/	Pass
20	QPSK	2580	100	0	18.136	/	Pass
		2595	100	0	18.067	/	Pass
		2610	100	0	18.136	/	Pass
	16QAM	2580	100	0	18.107	/	Pass
		2595	100	0	18.098	/	Pass
		2610	100	0	18.047	/	Pass
	64QAM	2580	100	0	18.072	/	Pass
		2595	100	0	18.115	/	Pass
		2610	100	0	18.120	/	Pass



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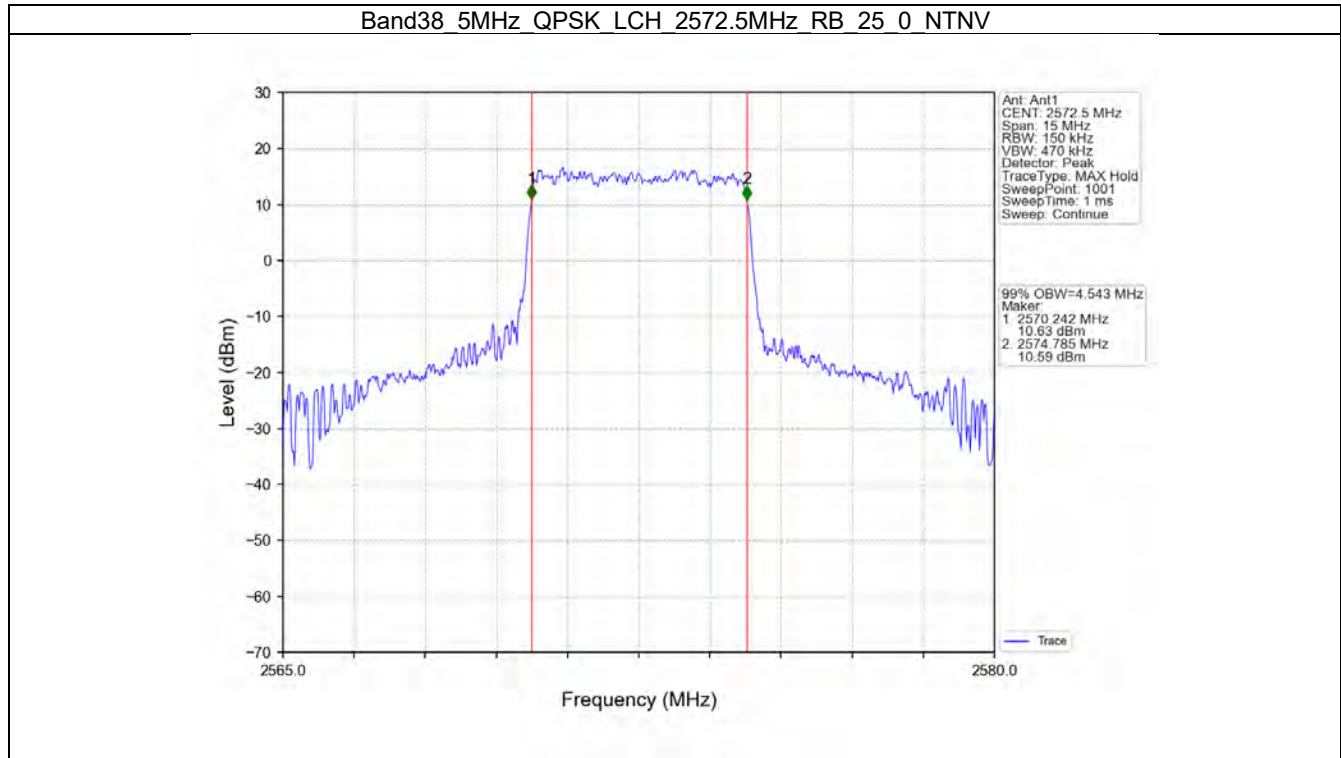
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3.1.2 Test Graph



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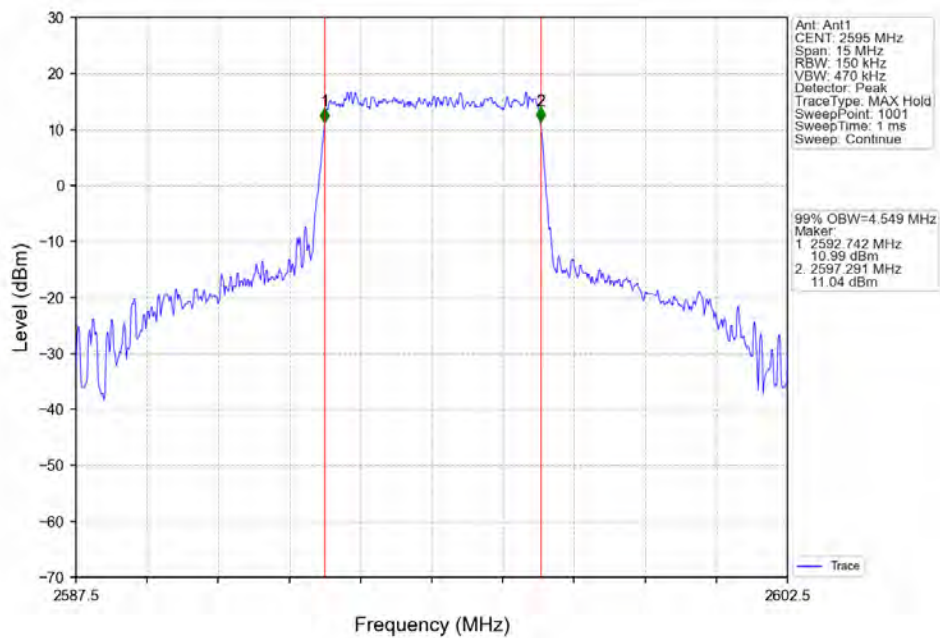
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Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV



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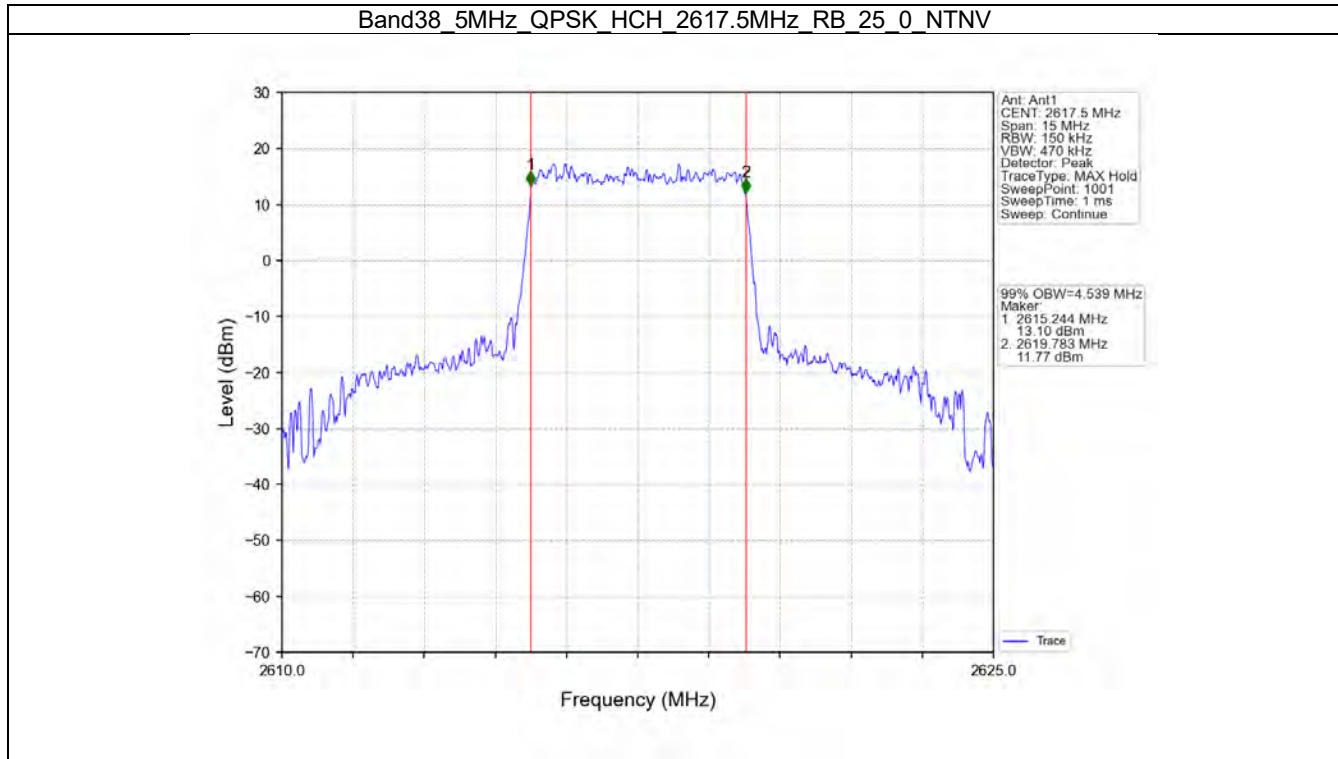


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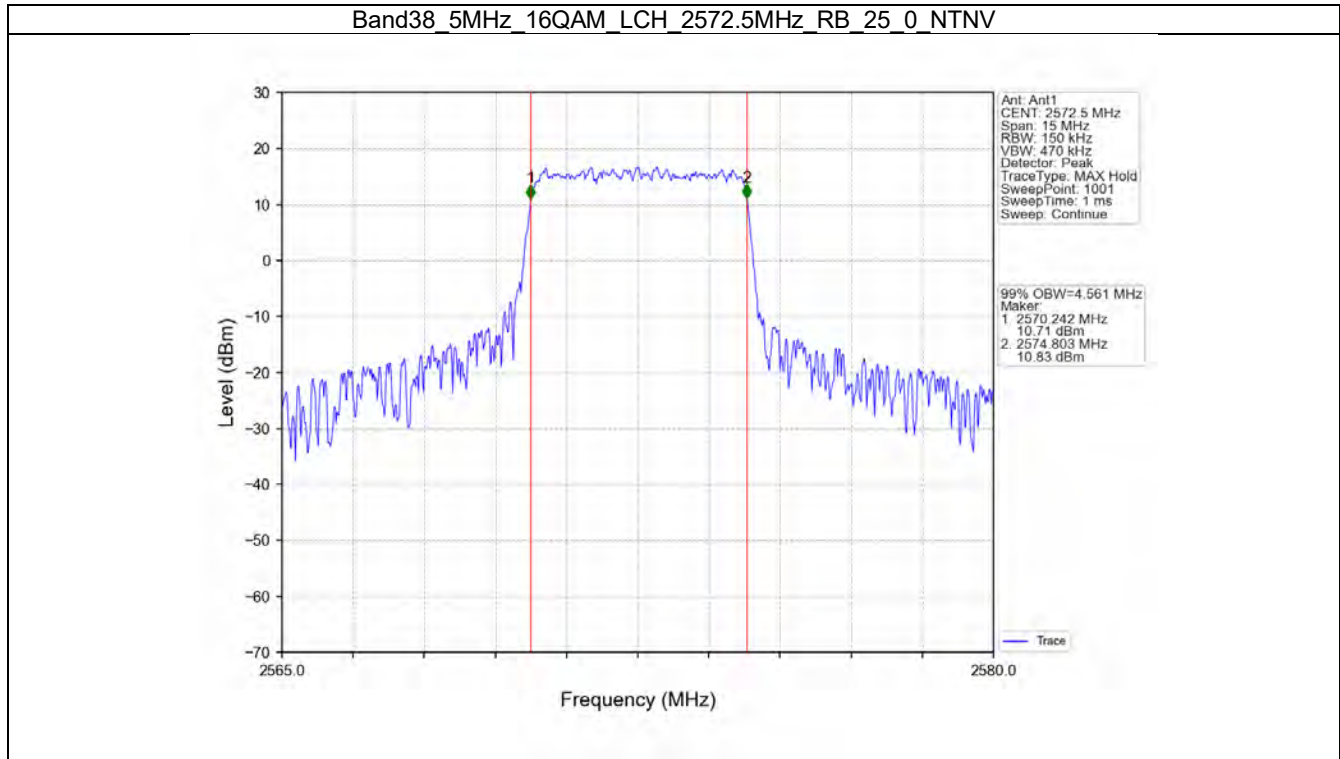


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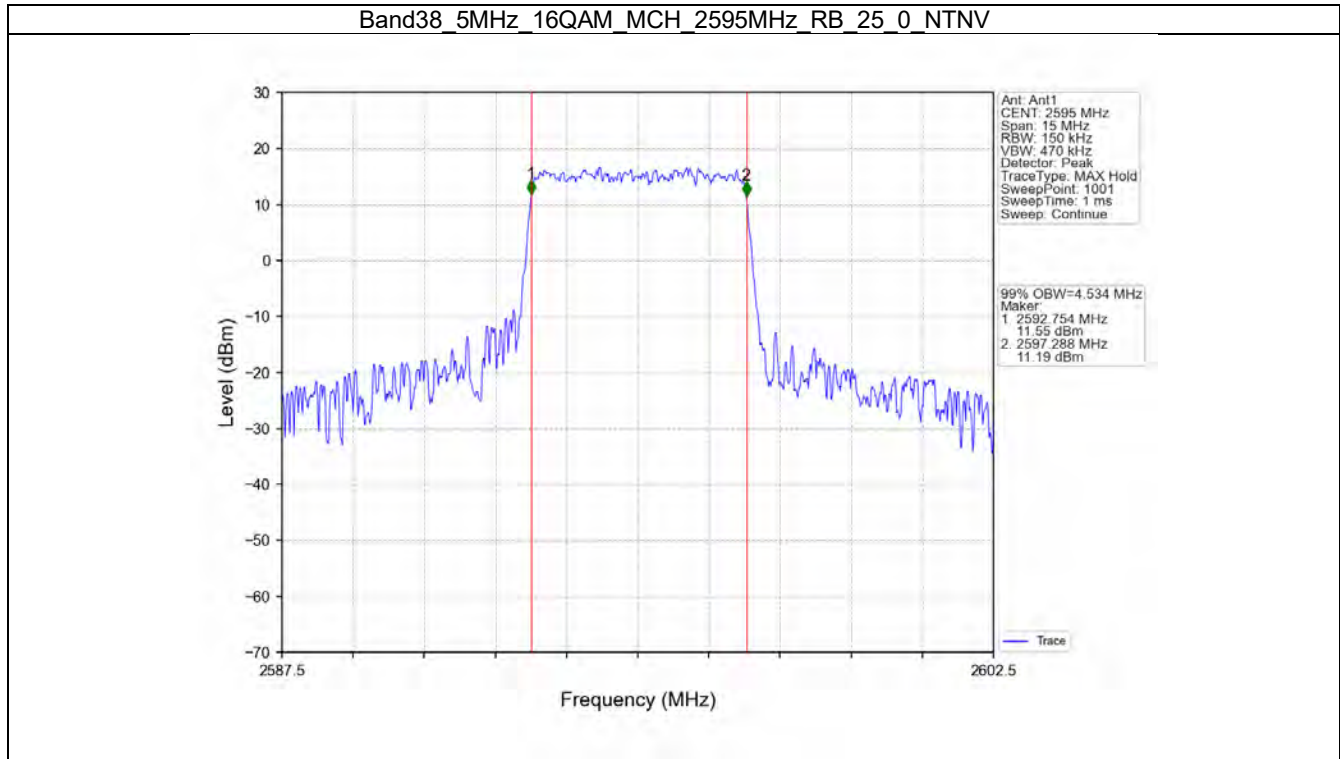


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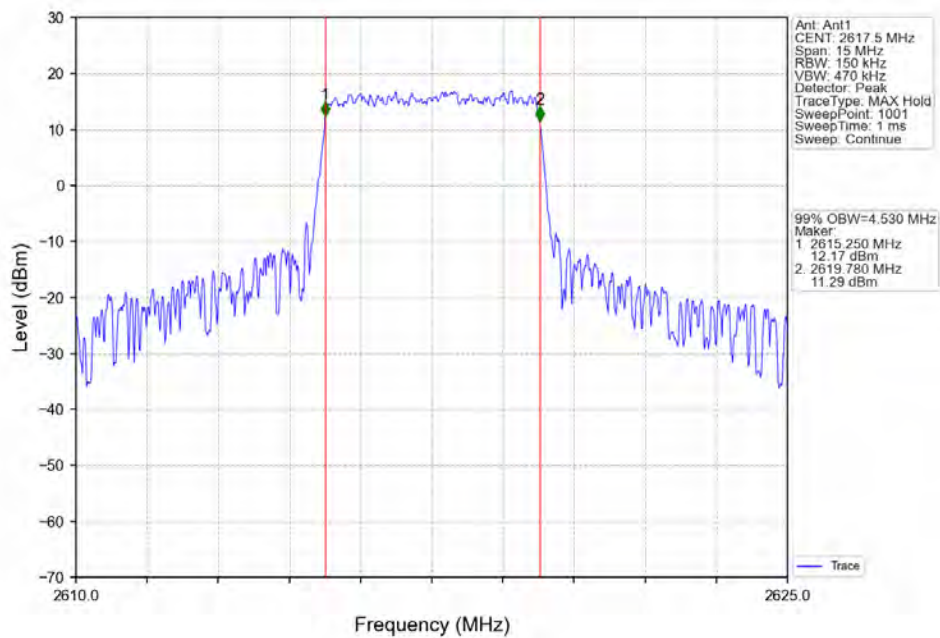
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Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV



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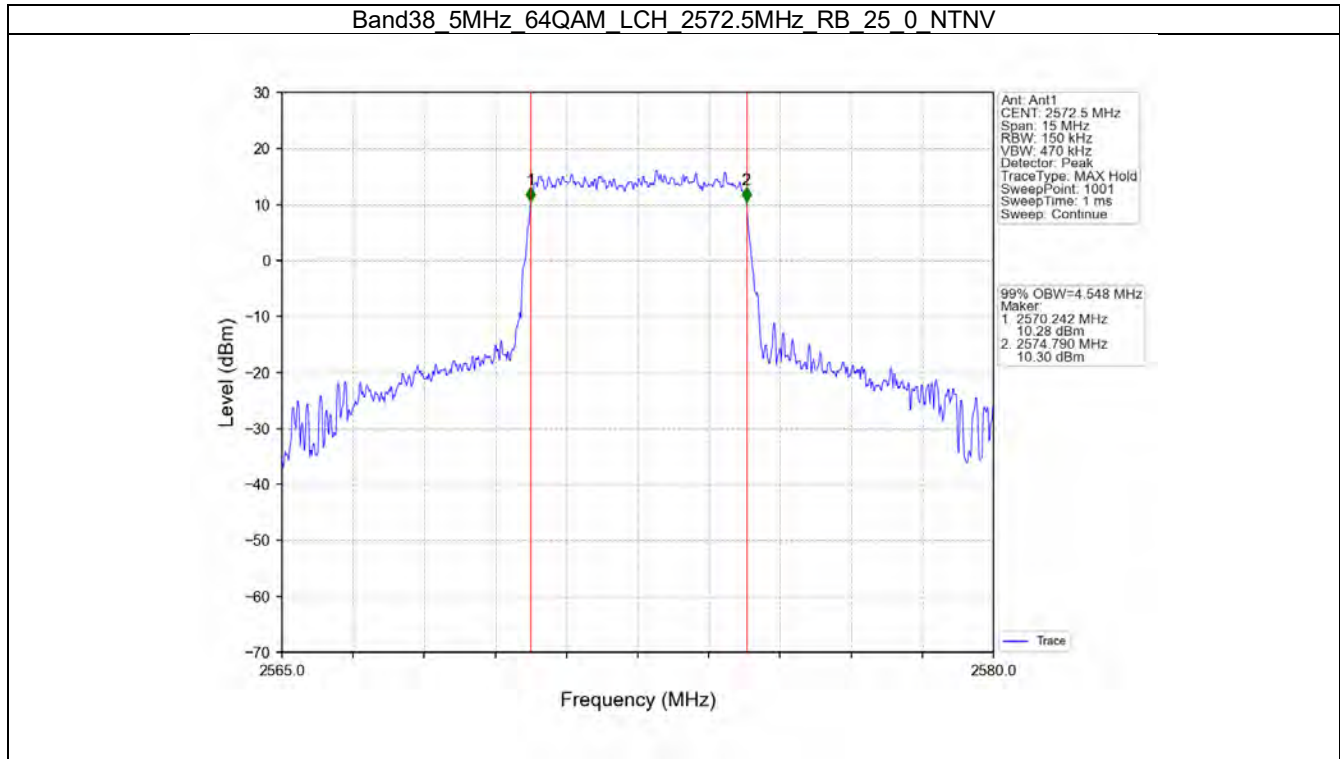


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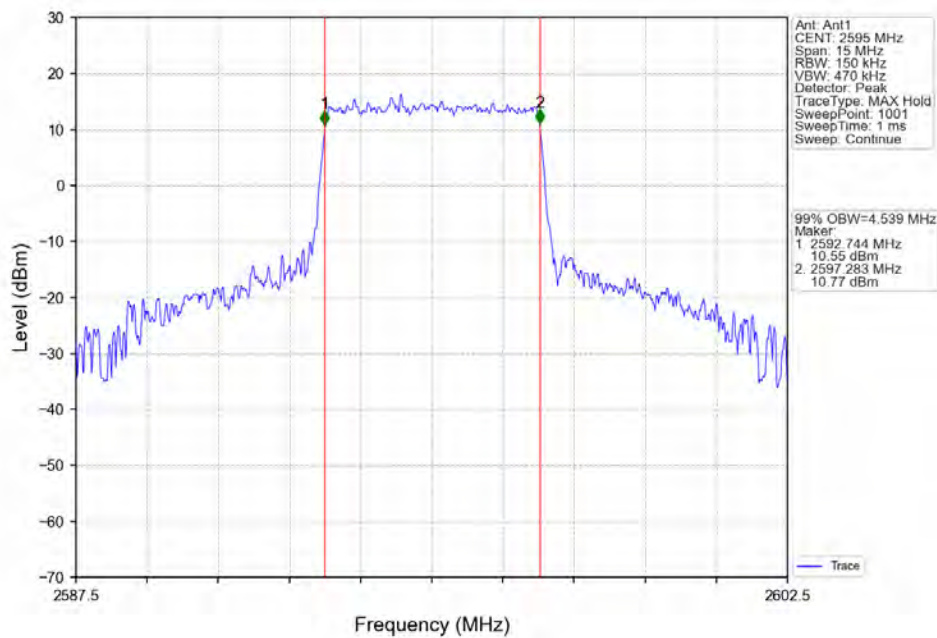
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Band38_5MHz_64QAM_MCH_2595MHz_RB_25_0_NTNV



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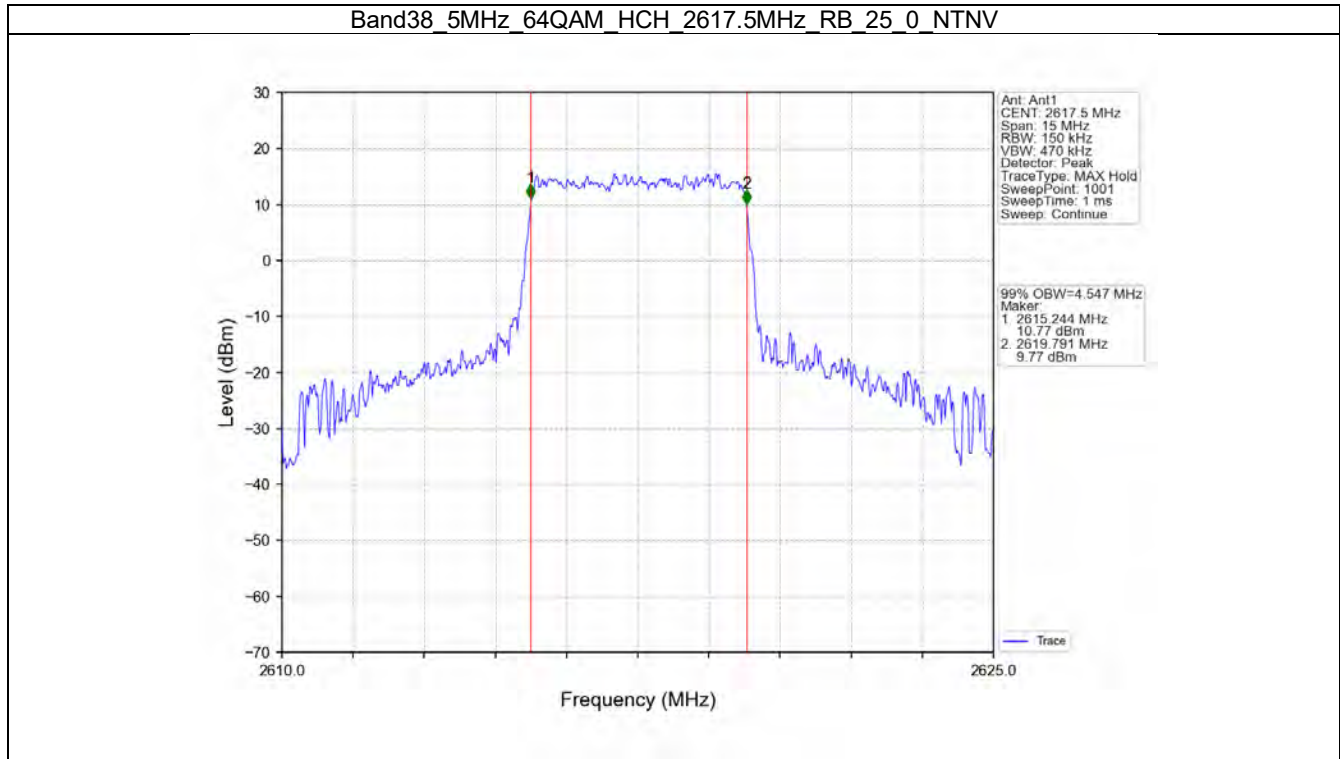


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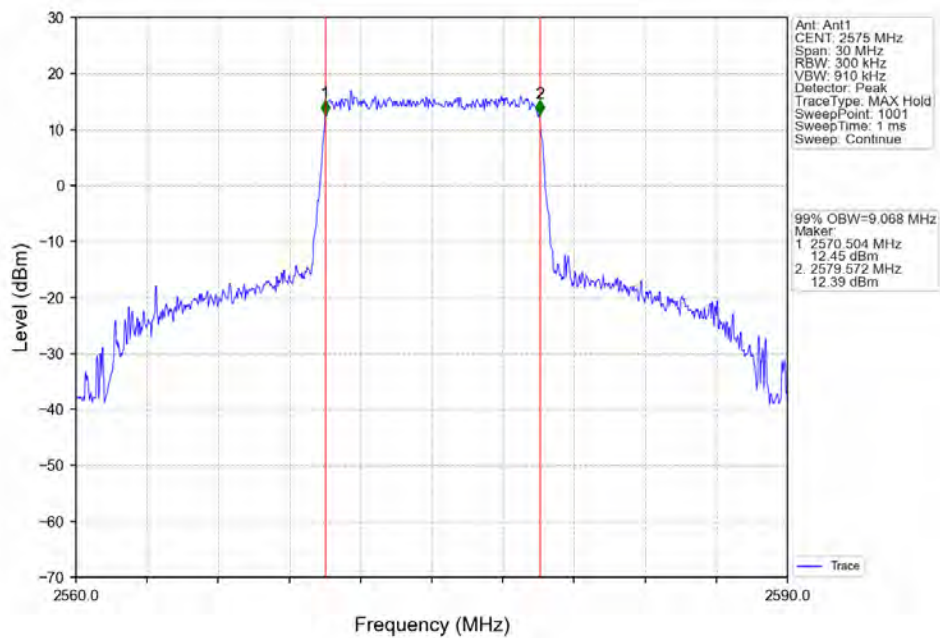
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Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



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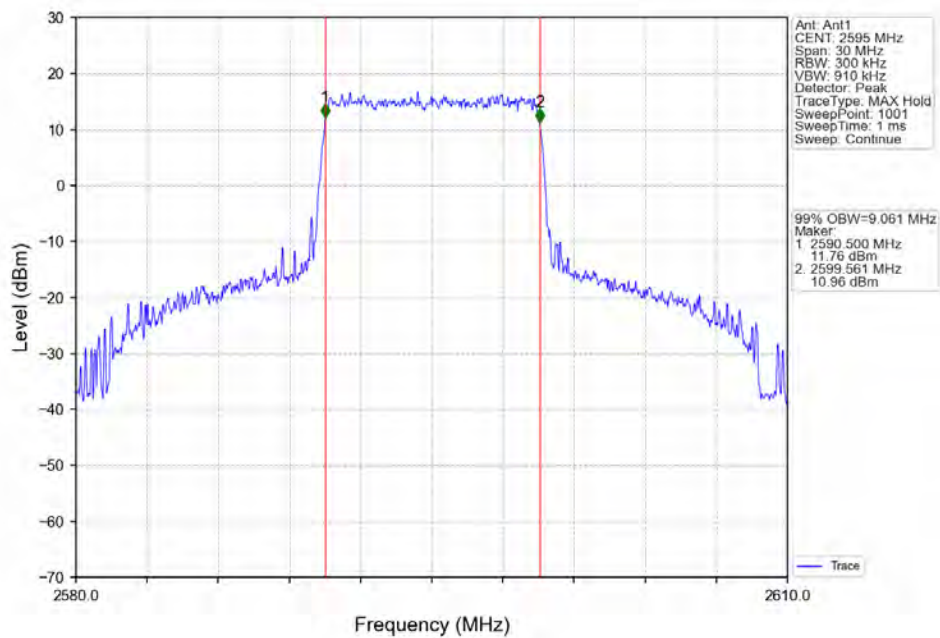
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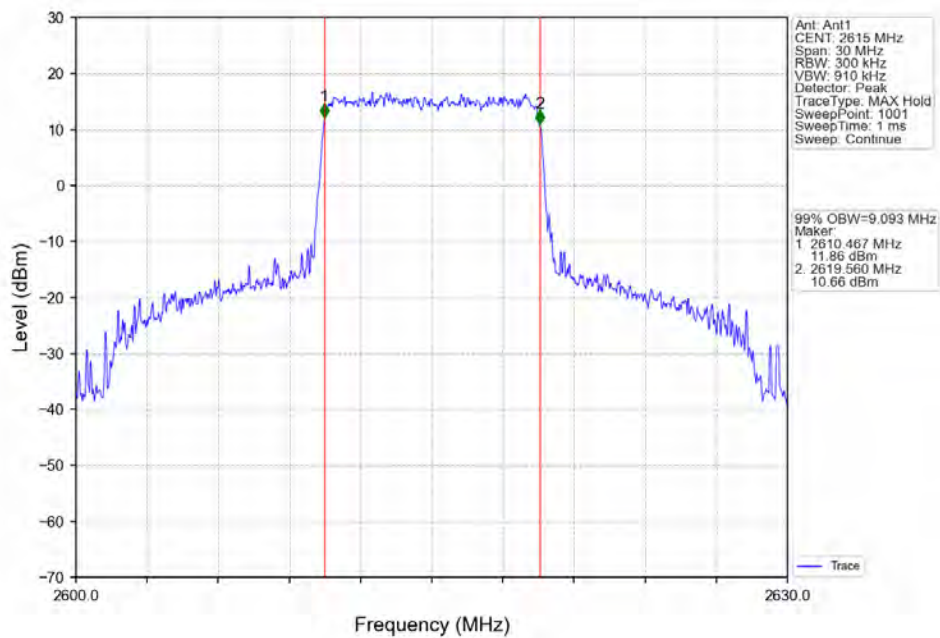
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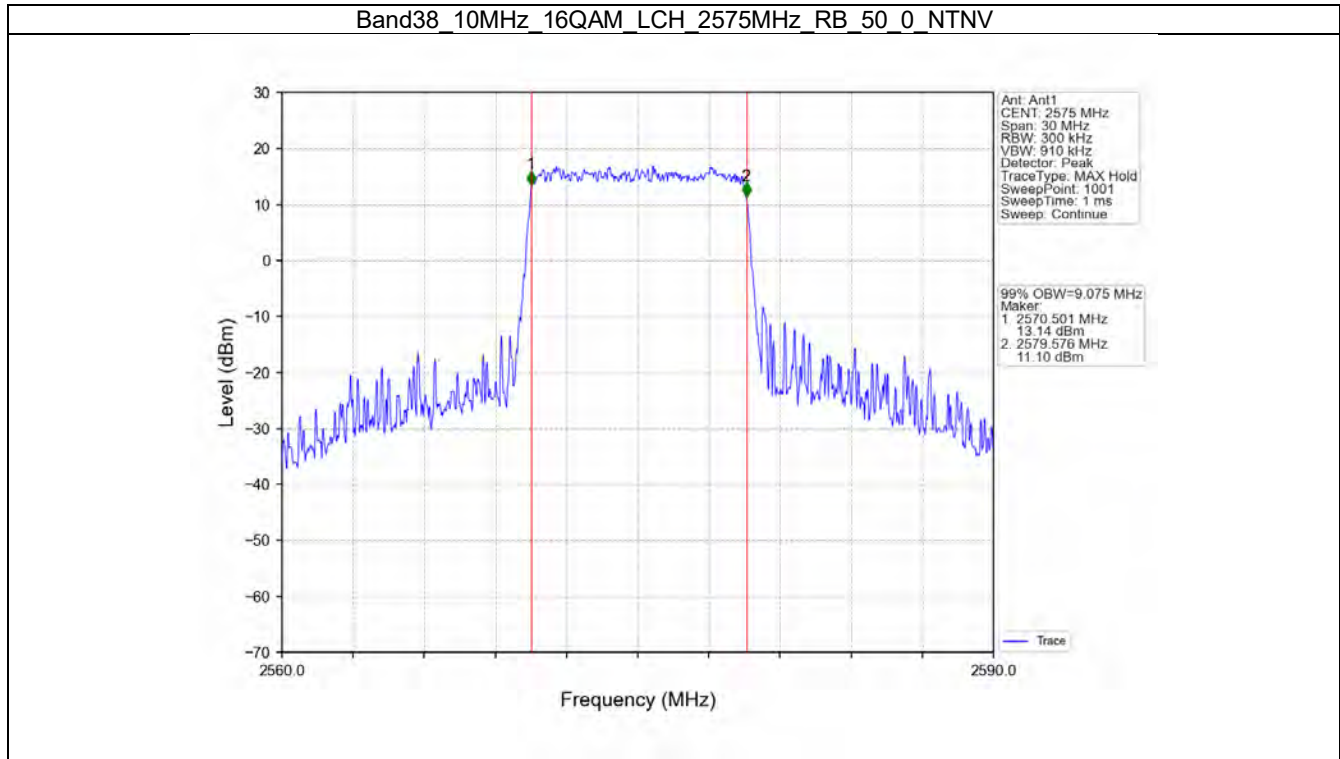


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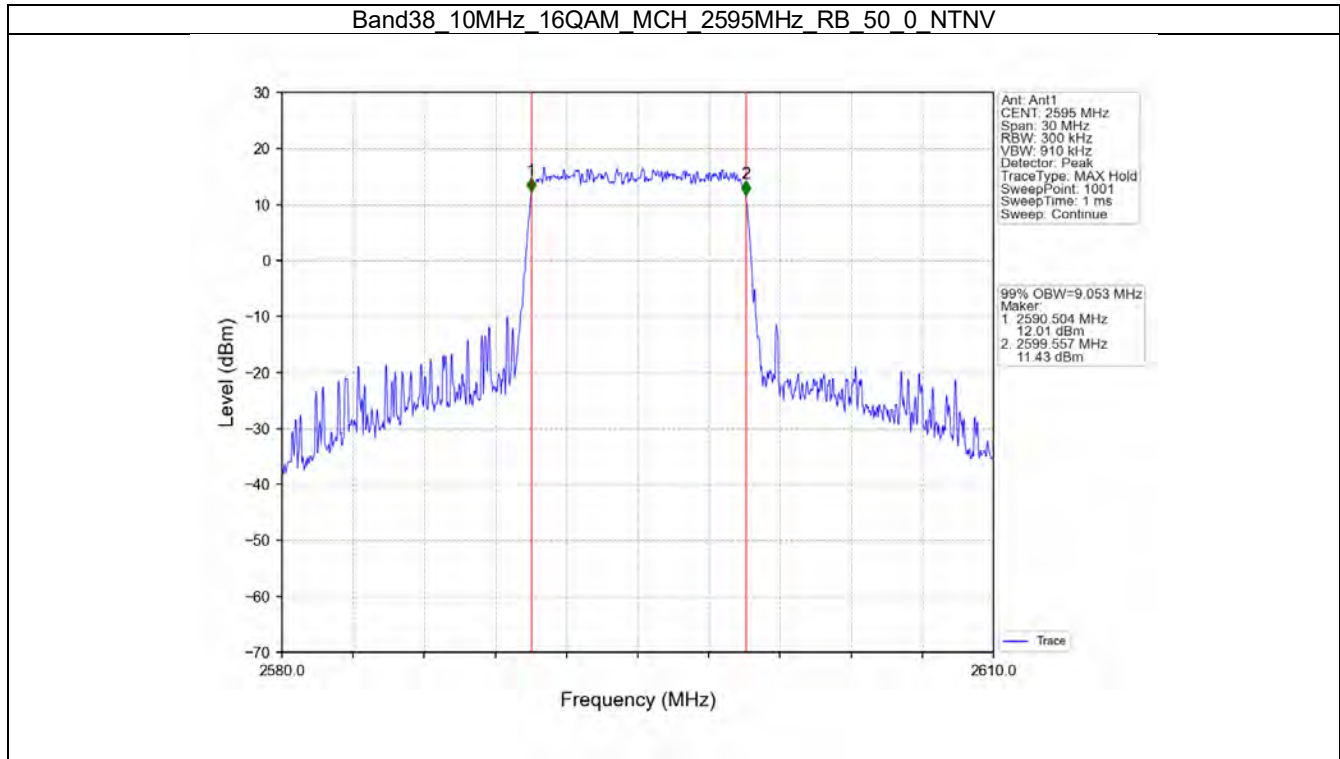


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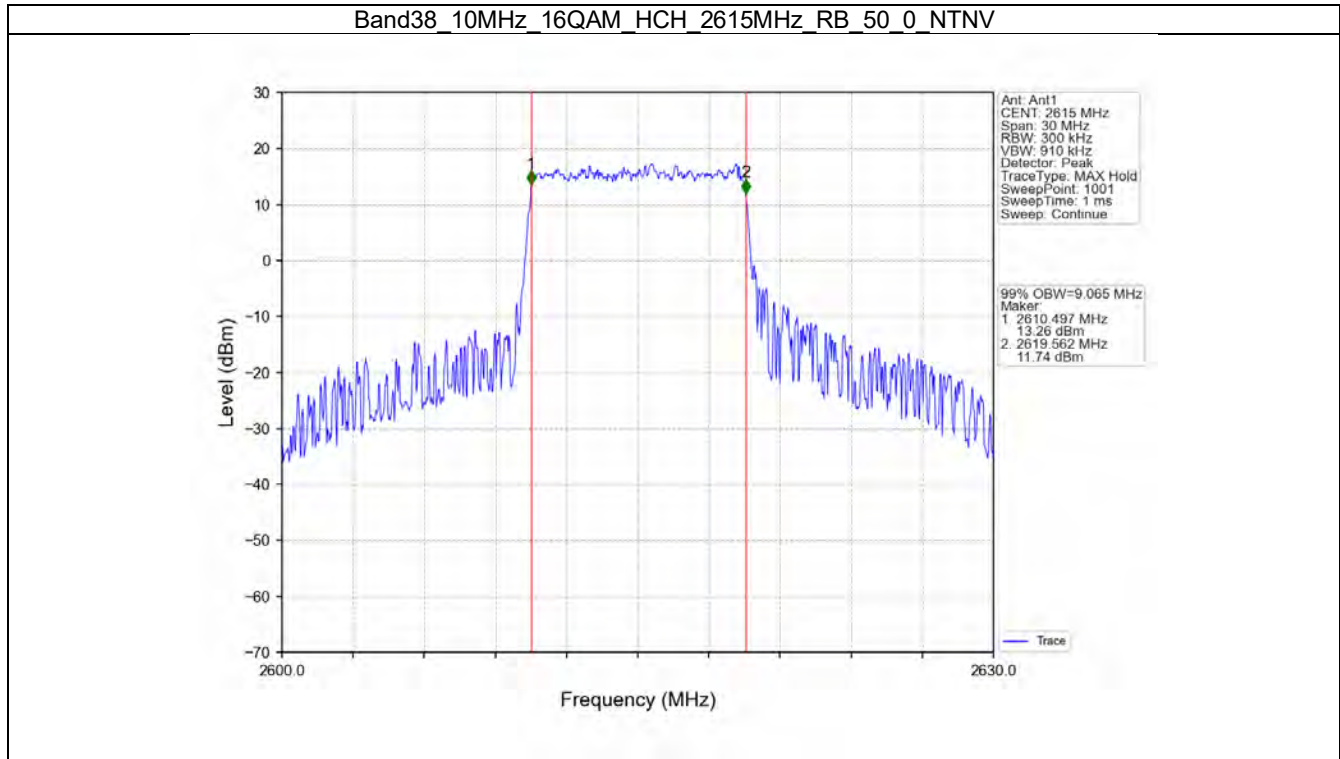


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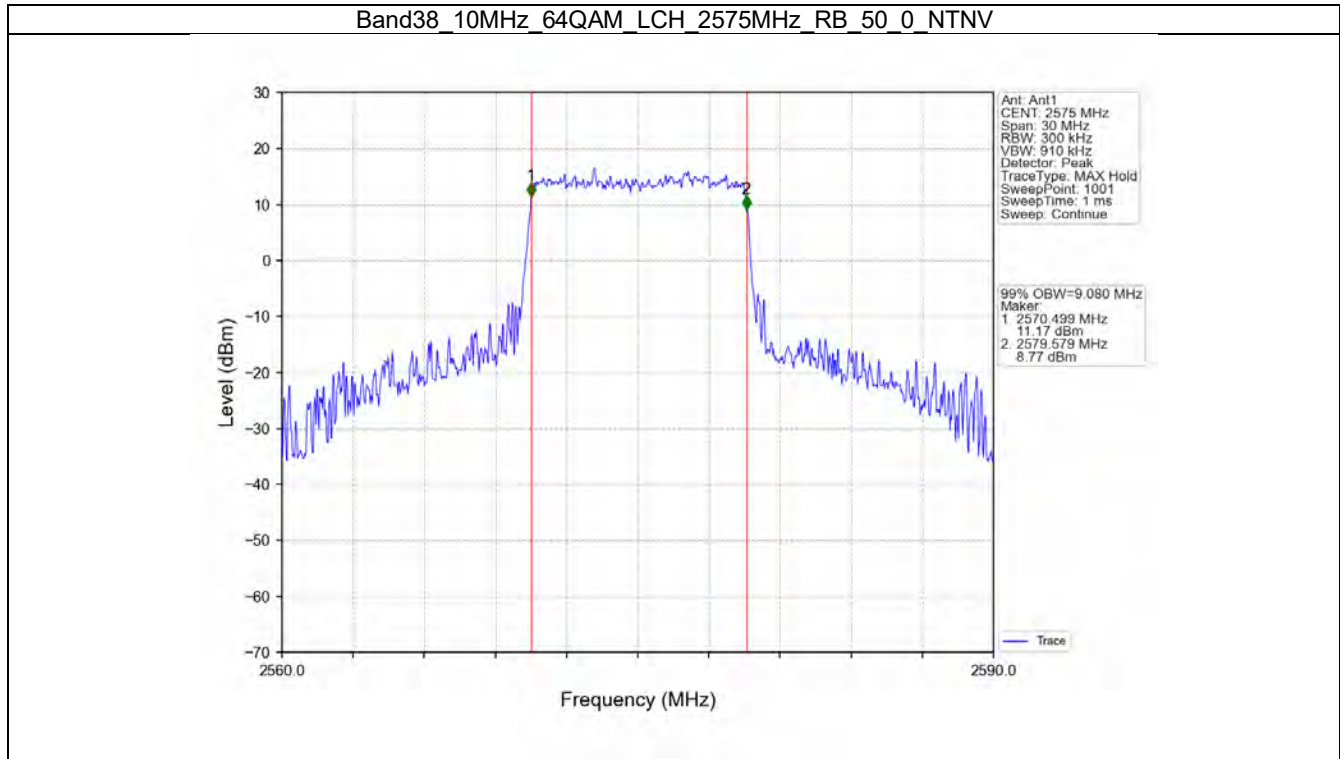


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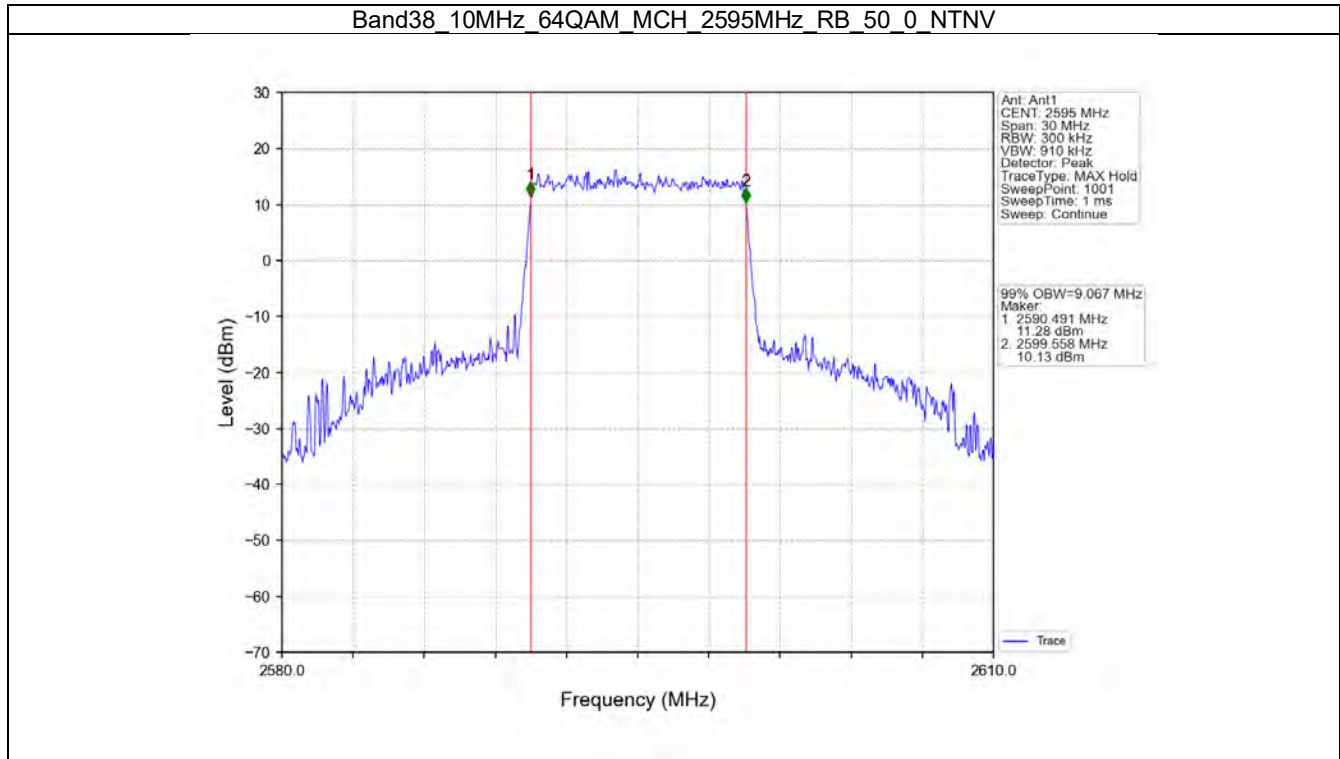


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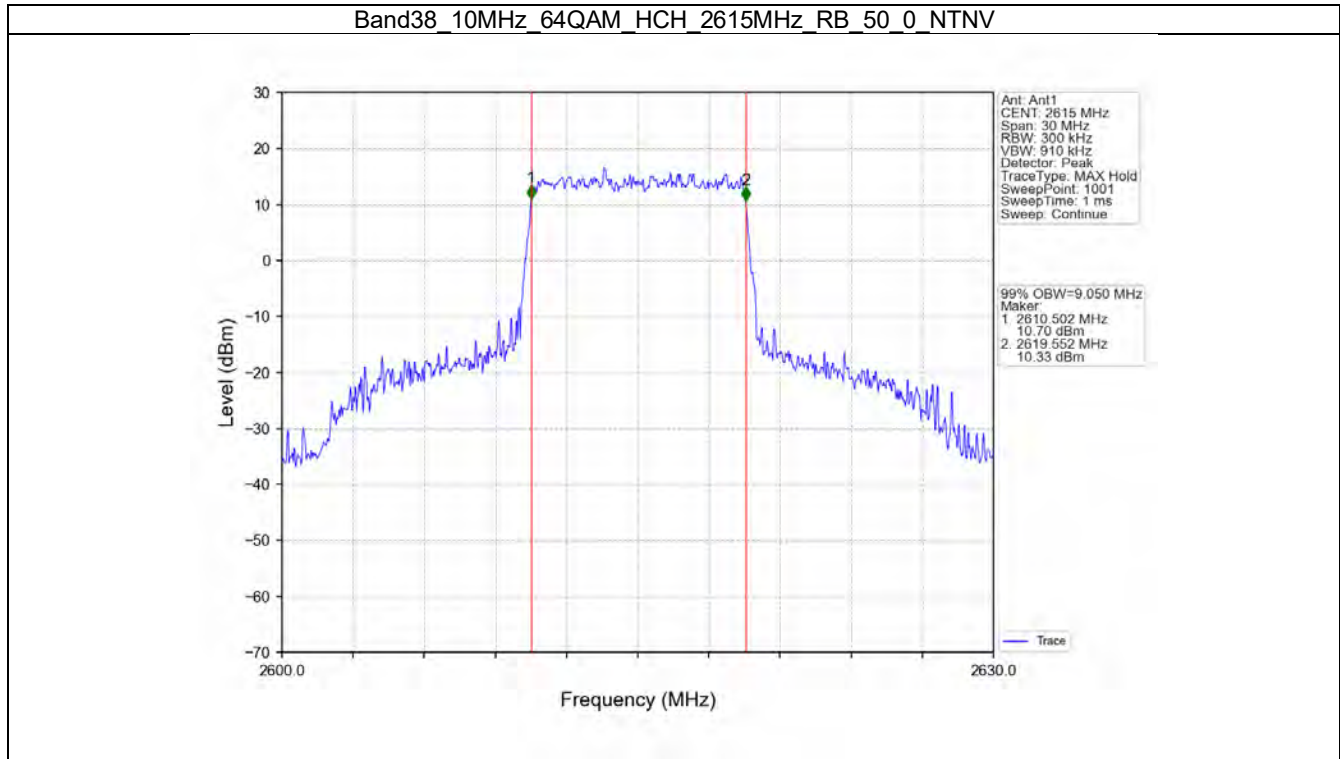


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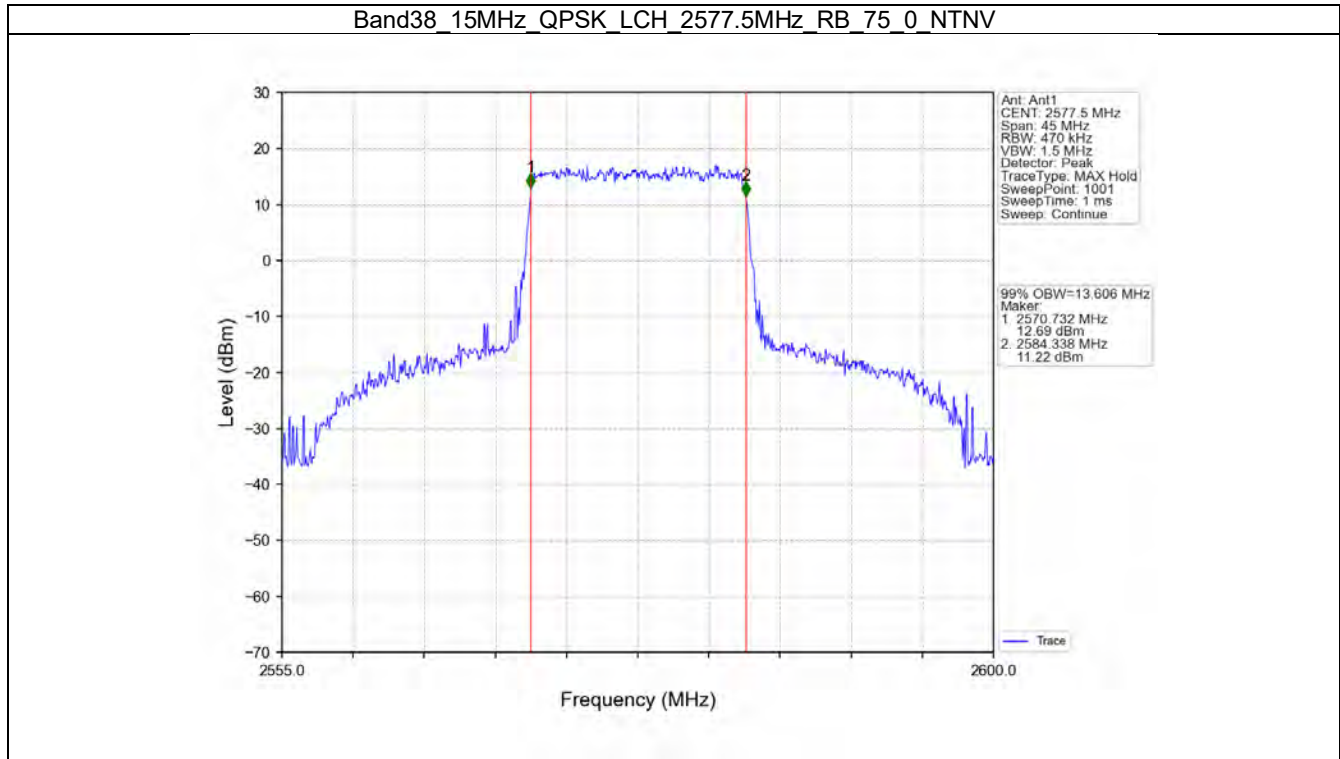


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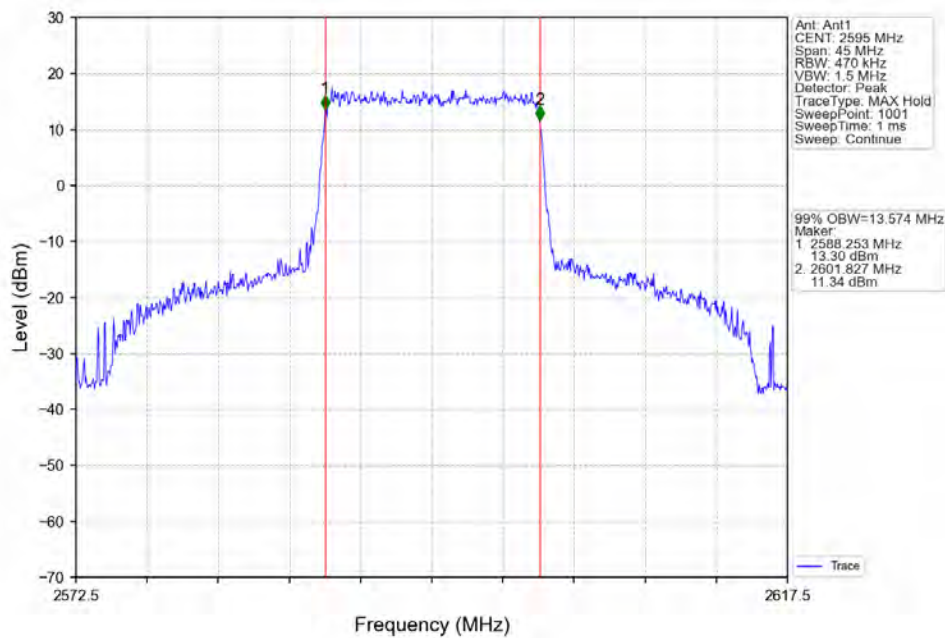
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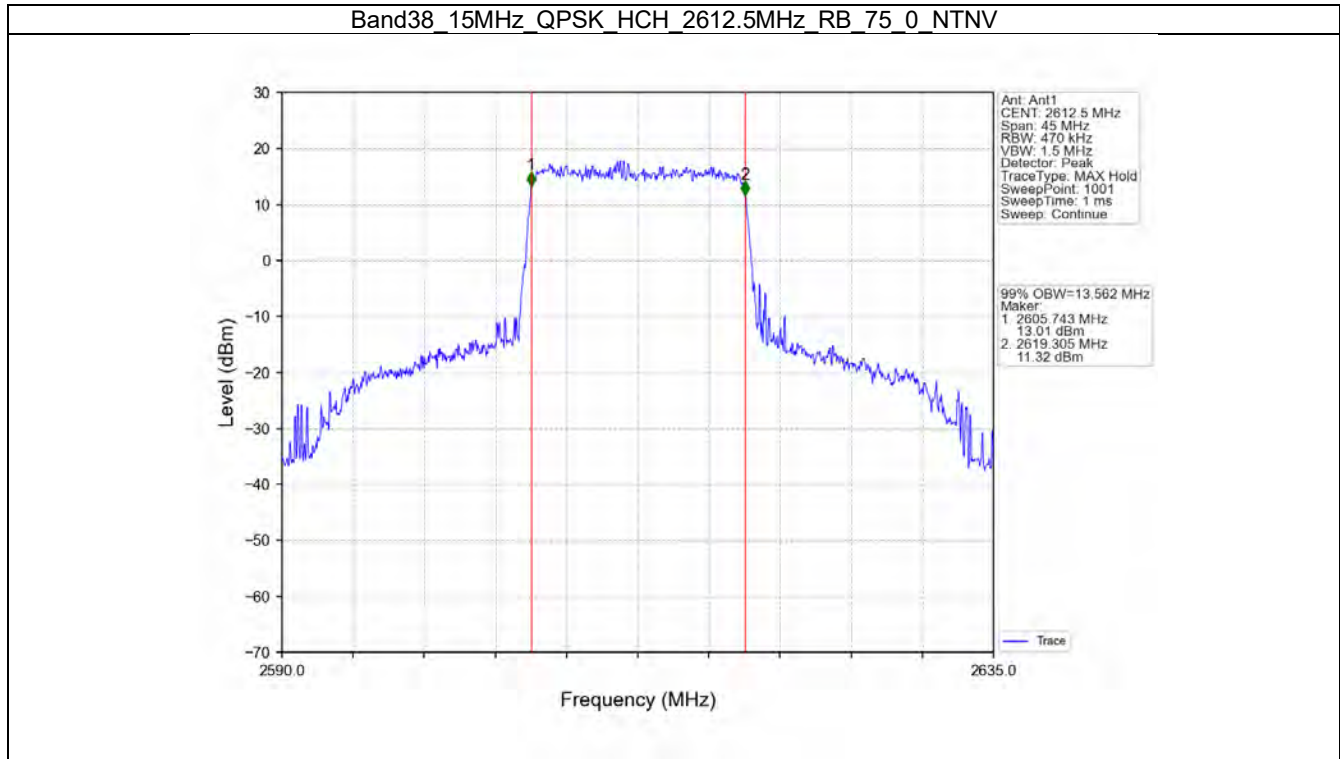


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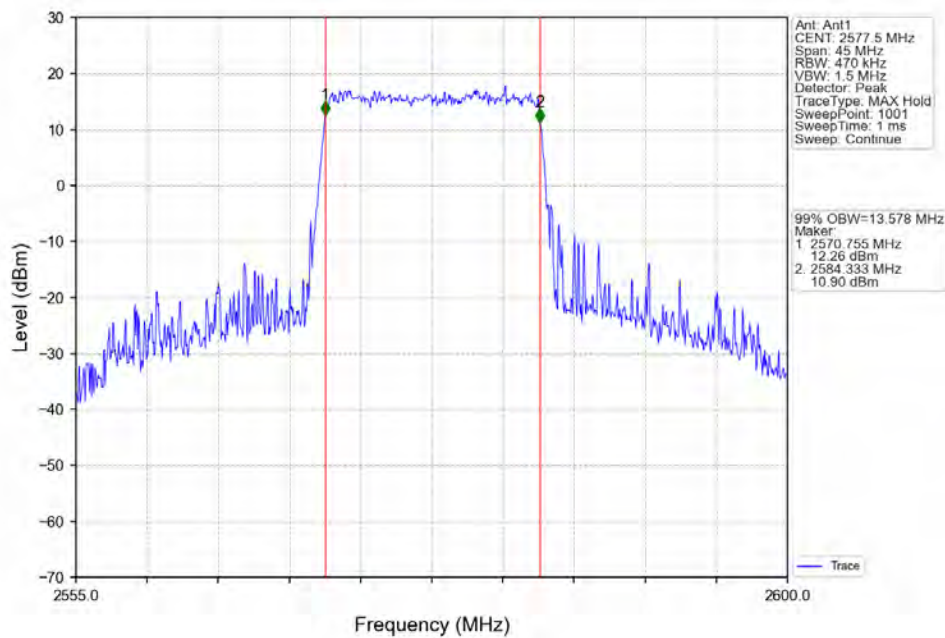
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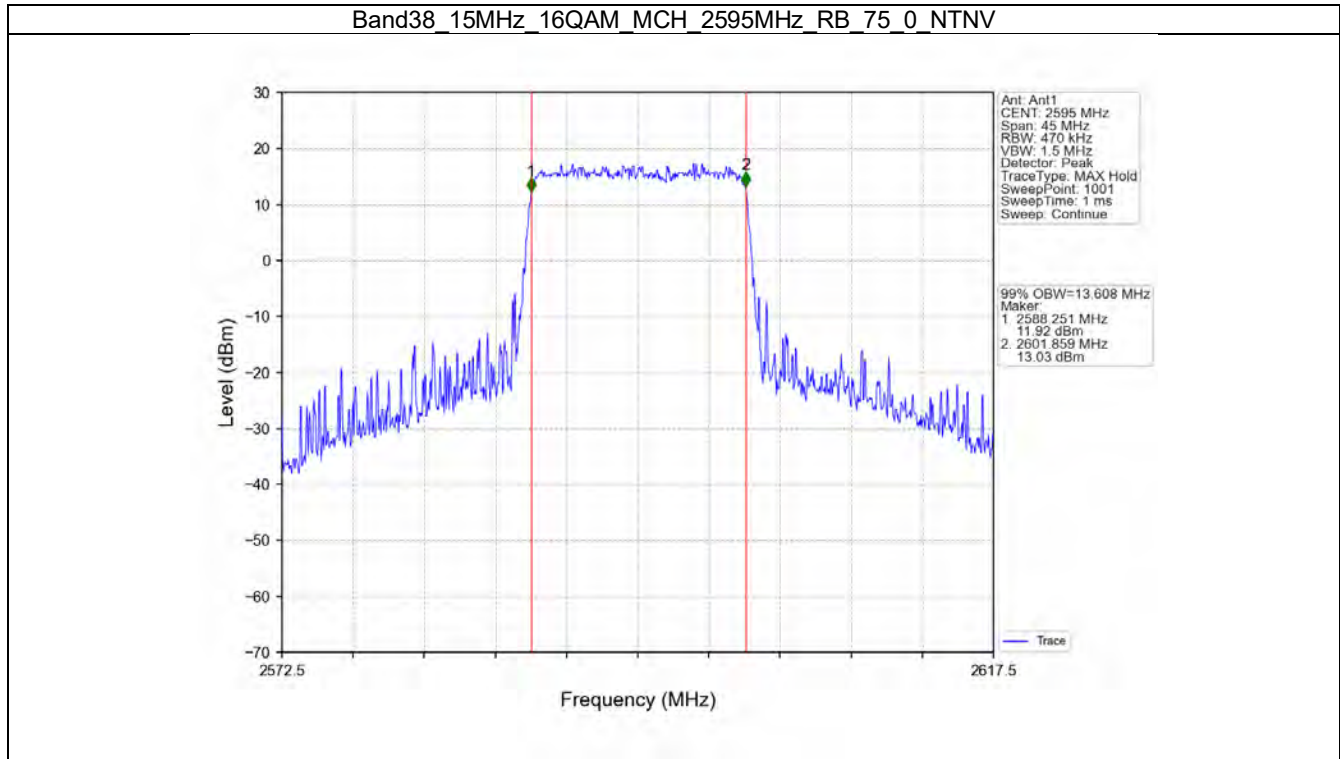


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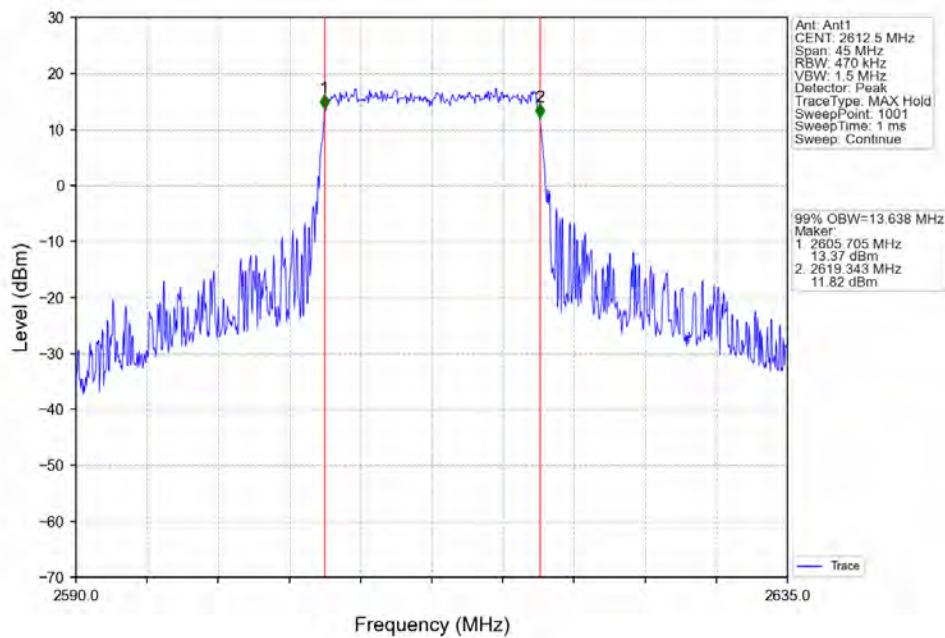
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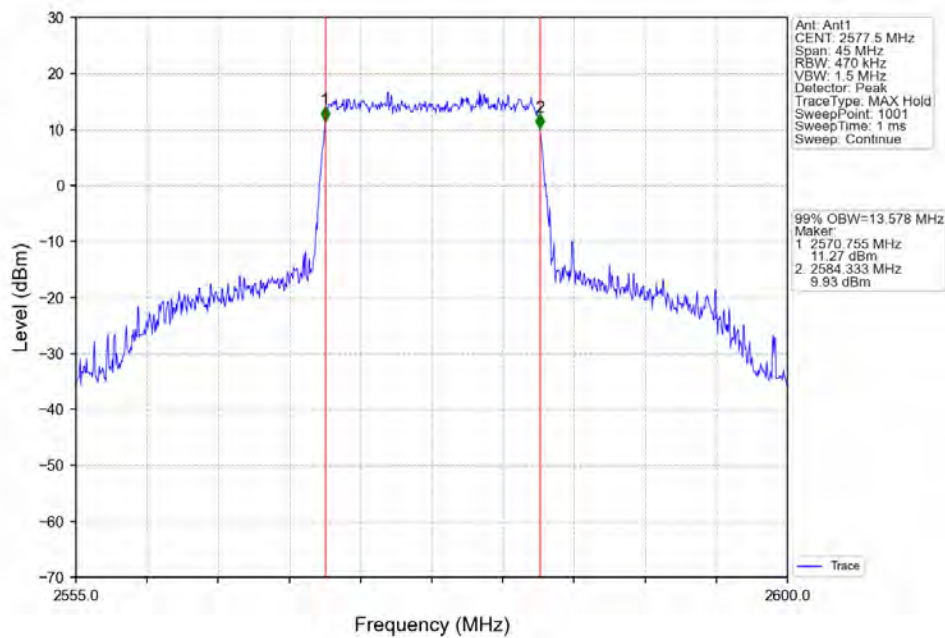
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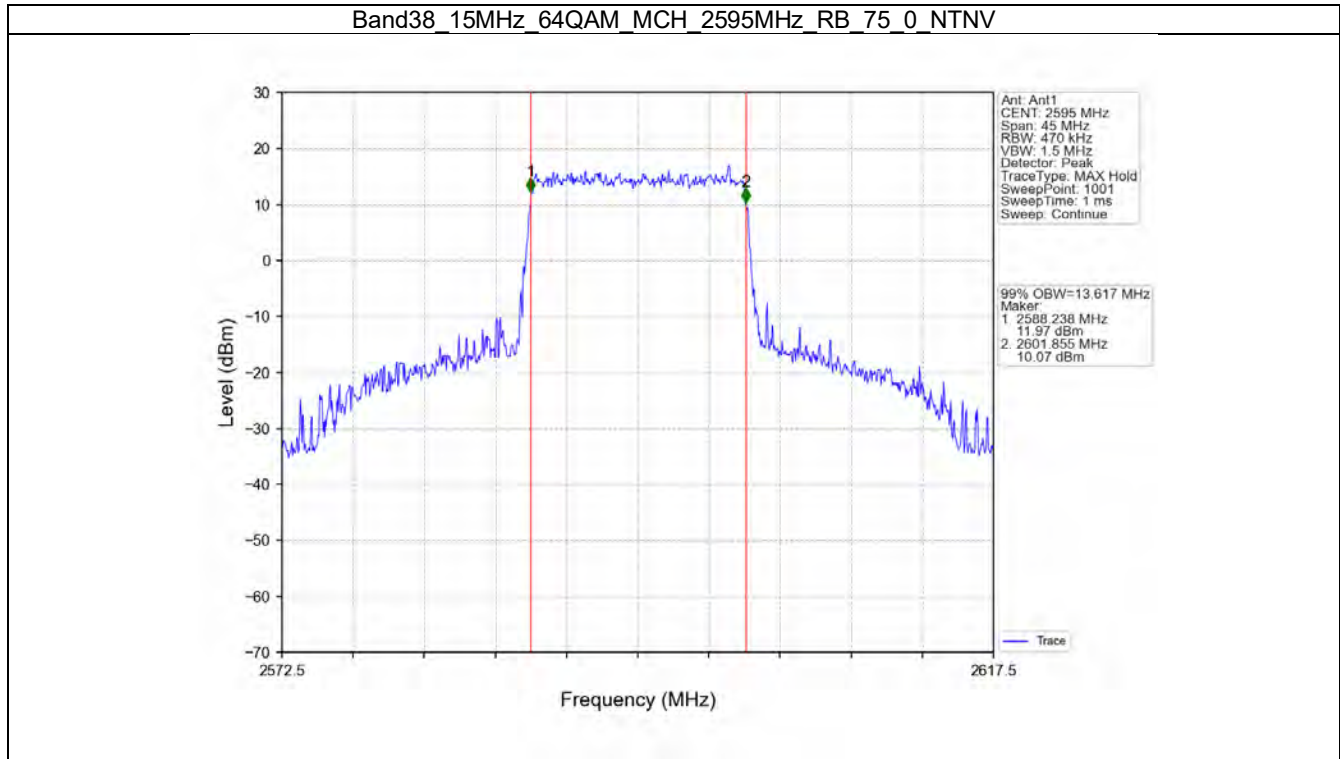


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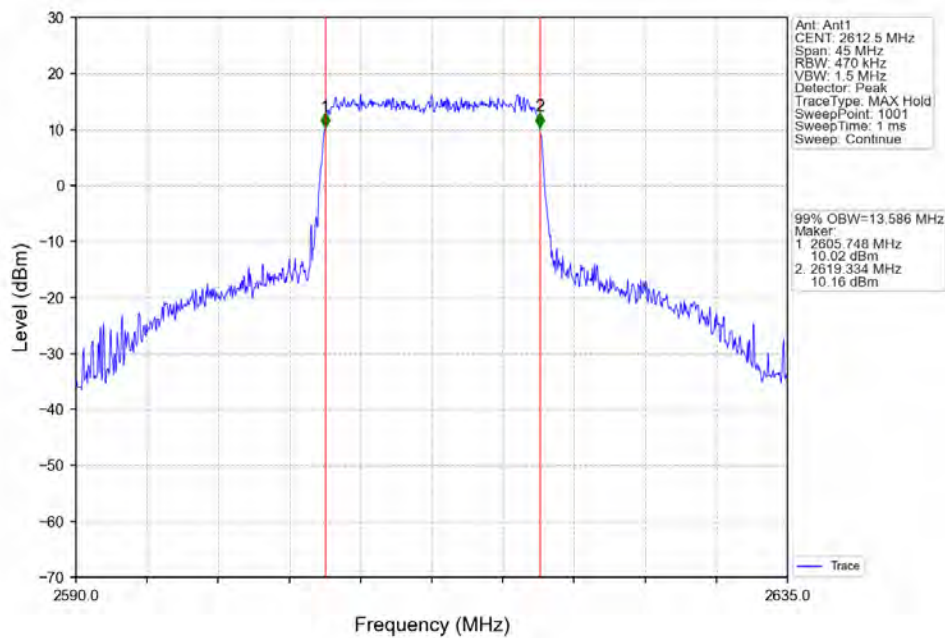
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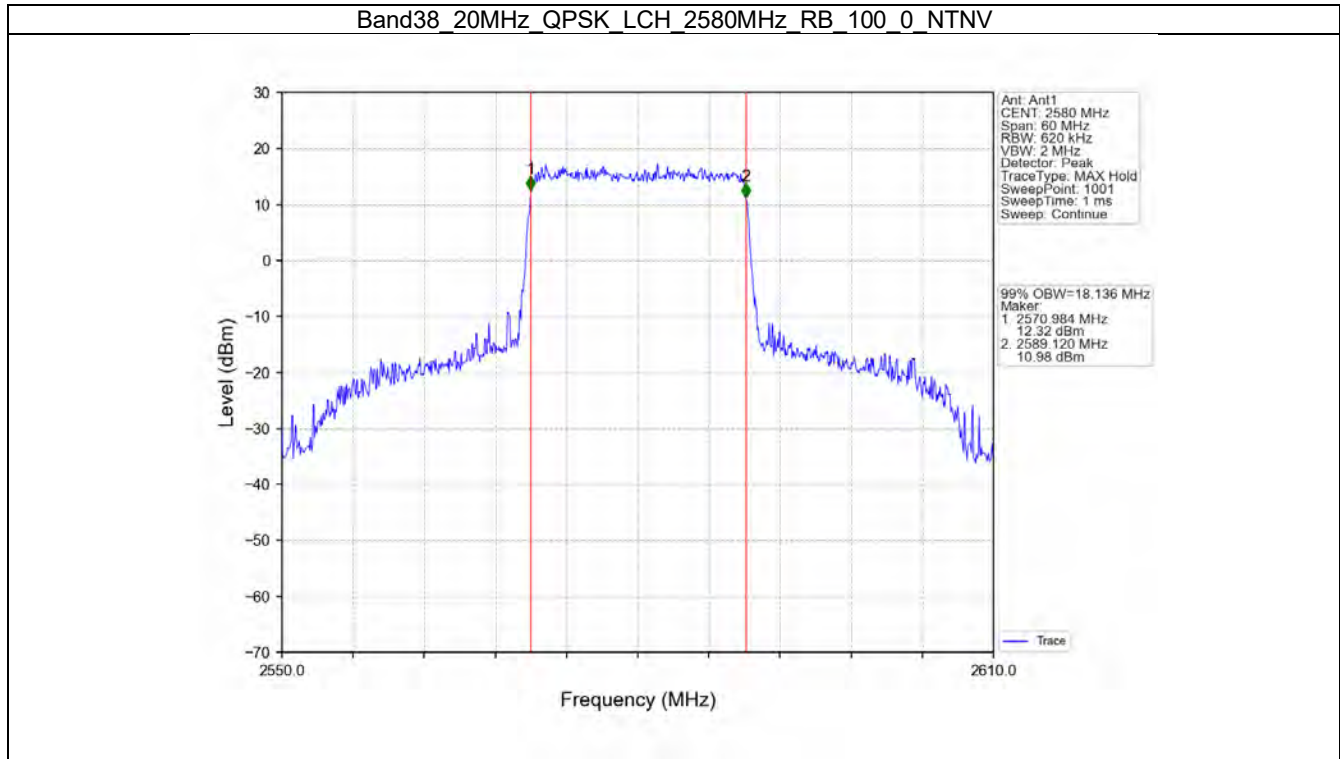


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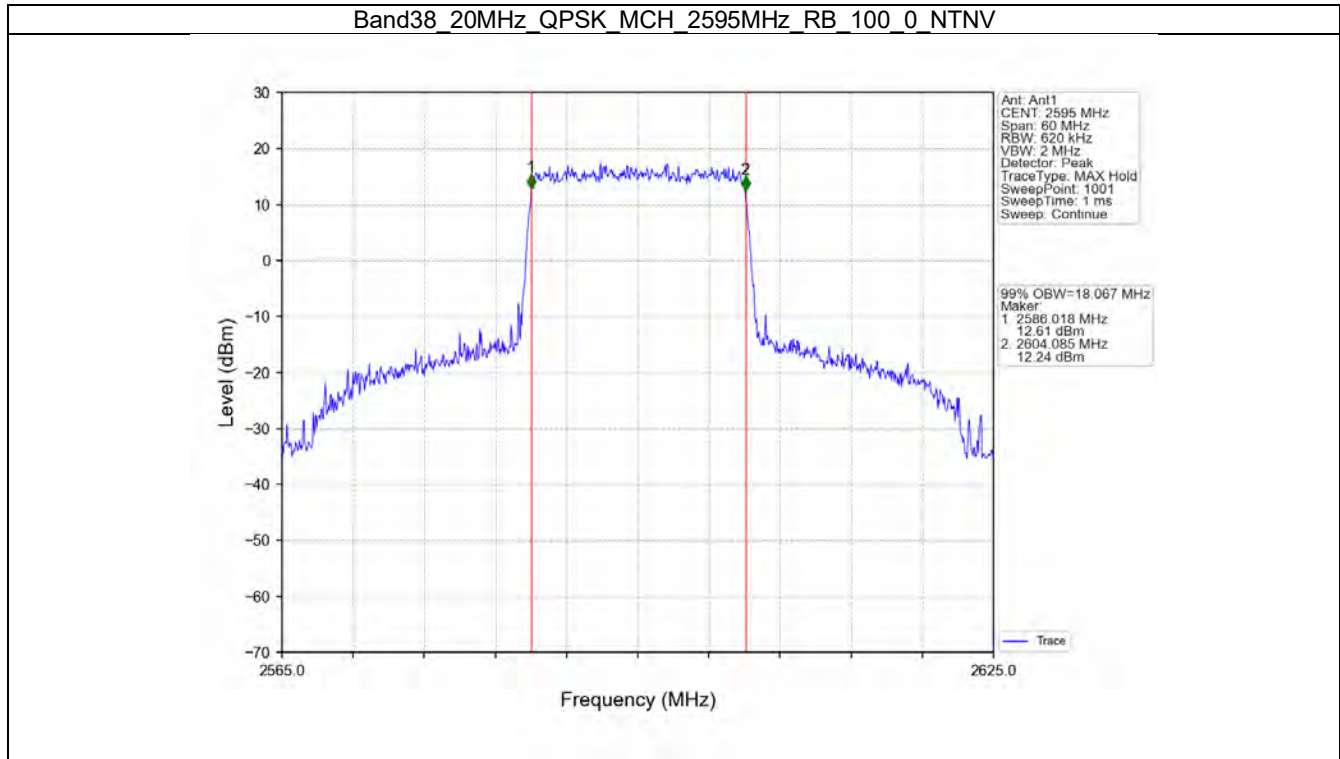


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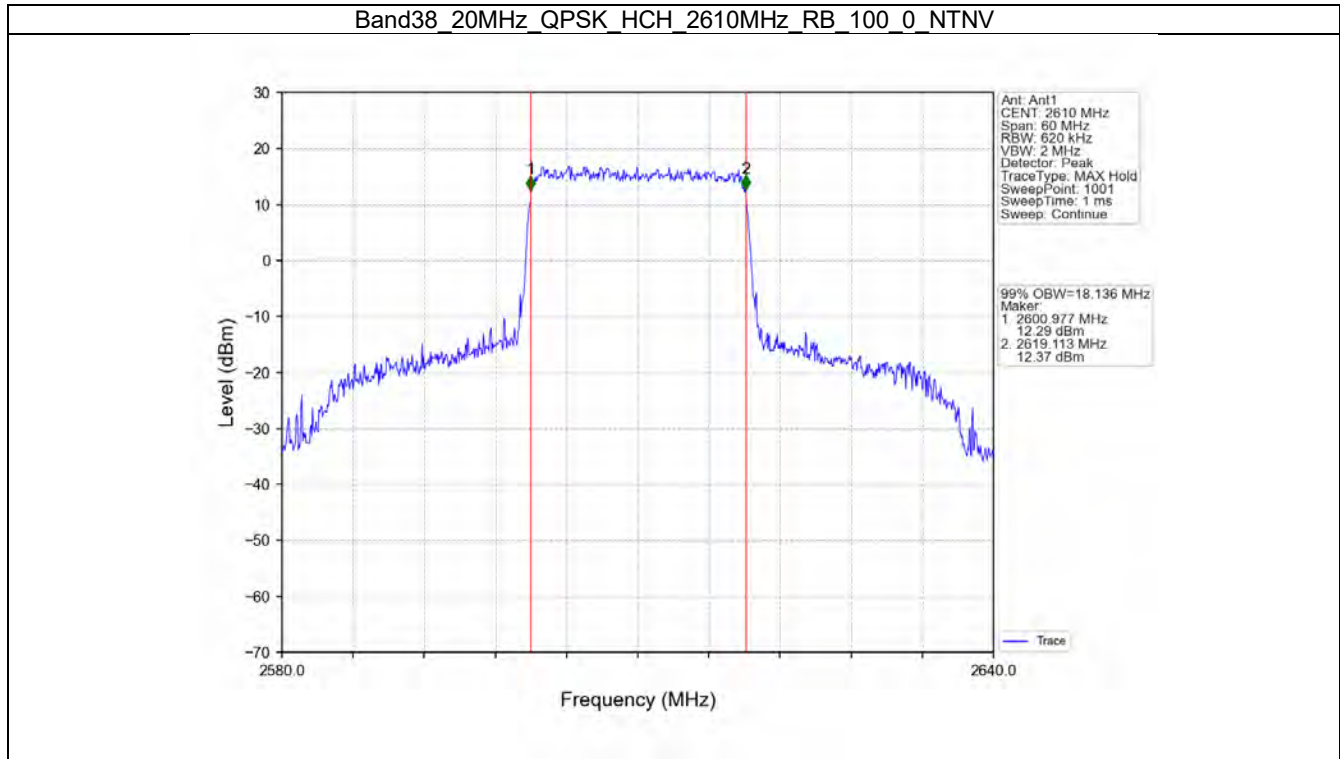


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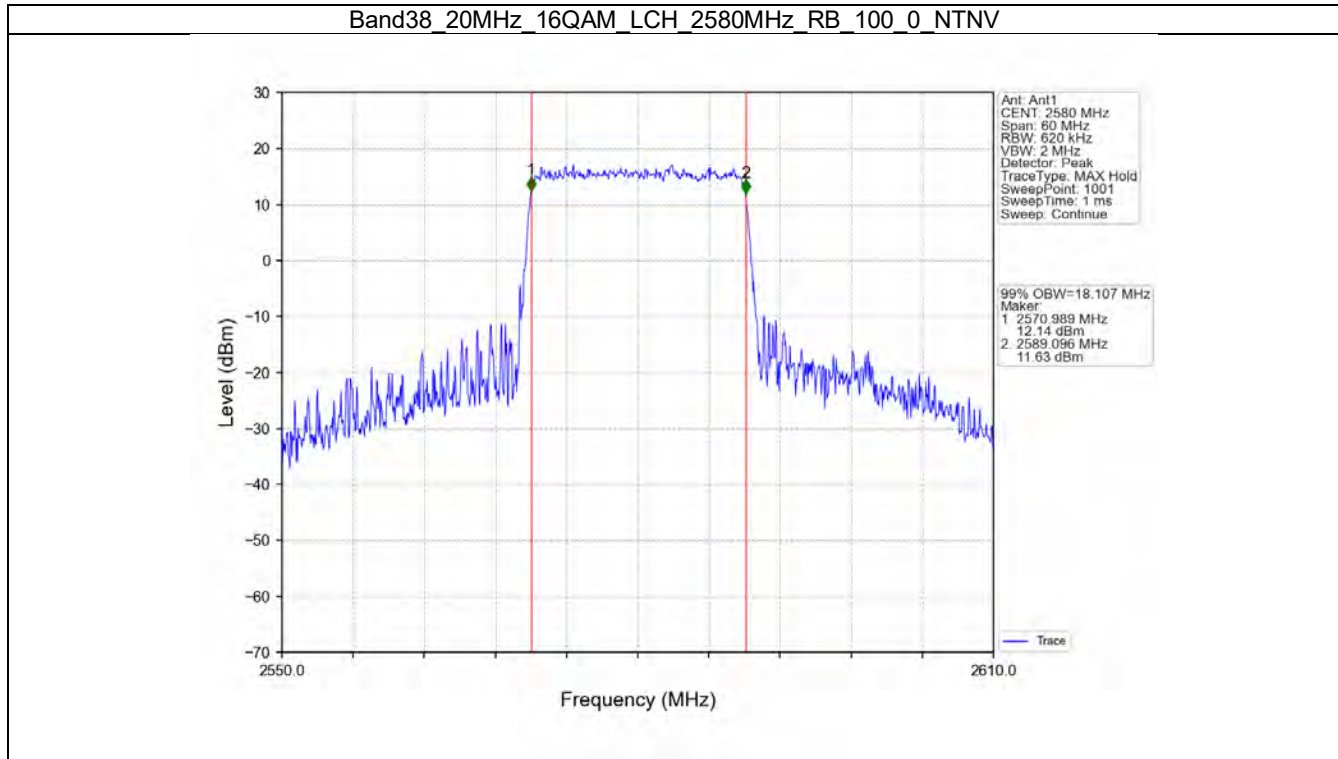


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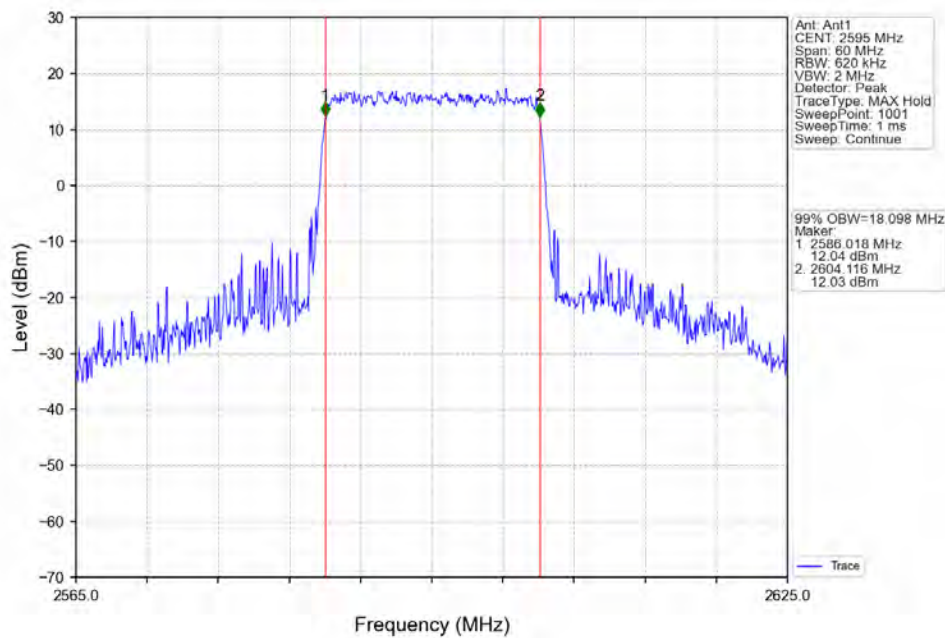
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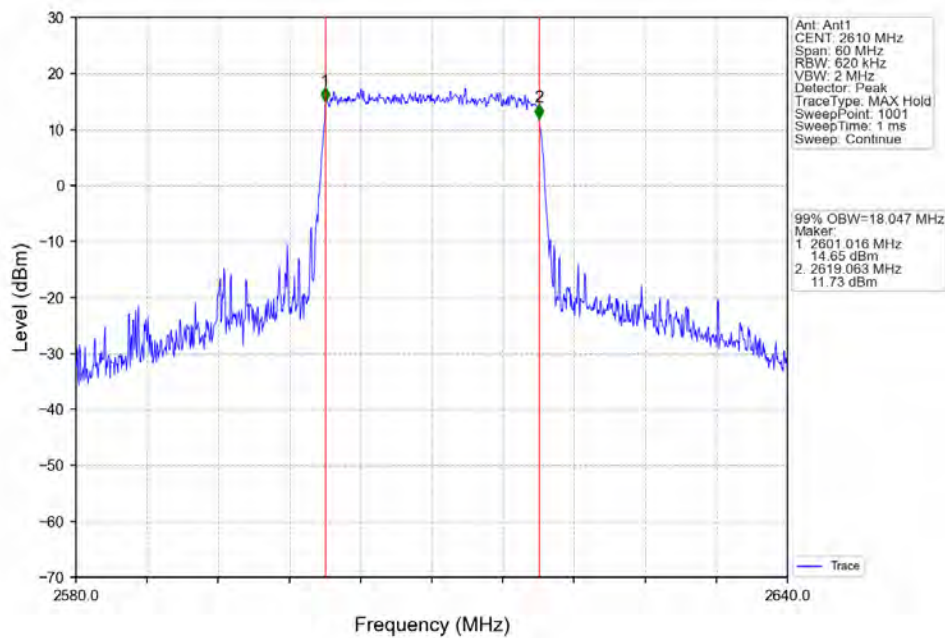
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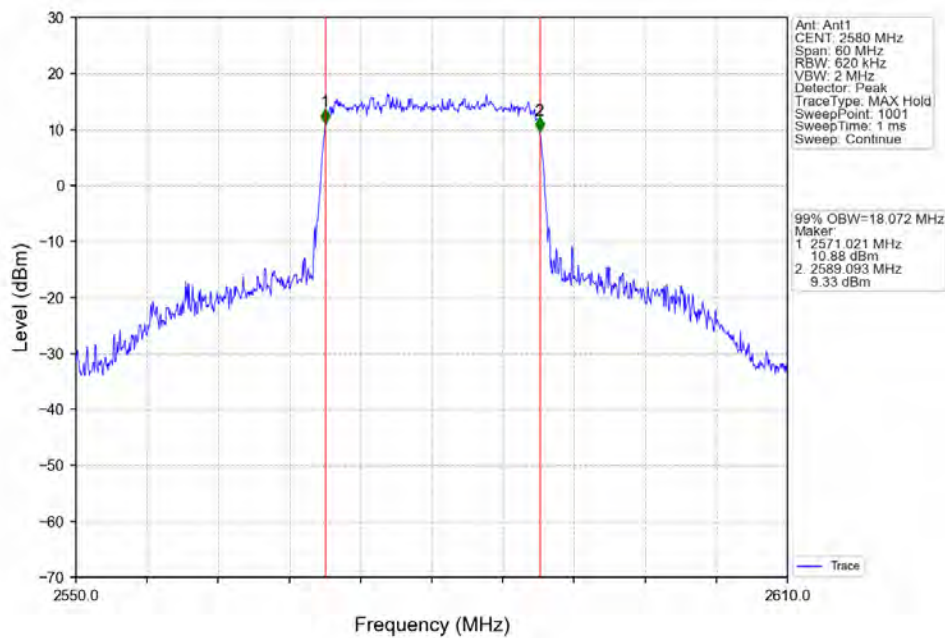
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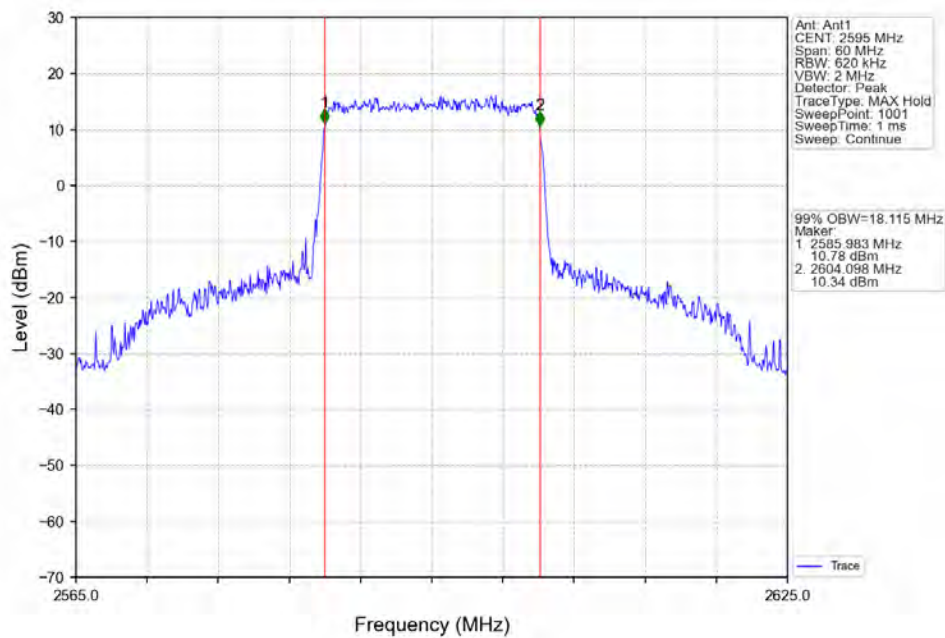
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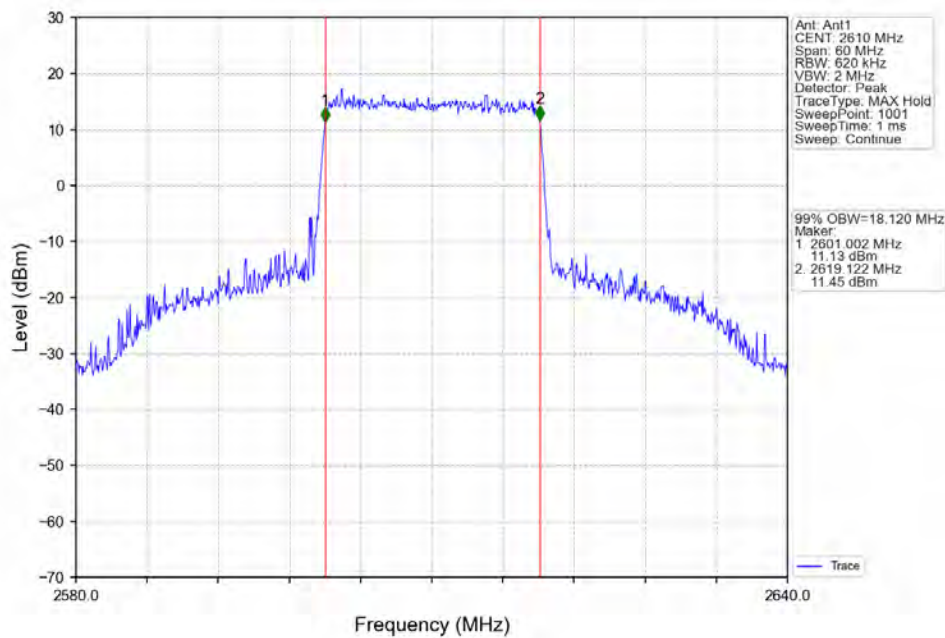
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3.2 Band38_XDB

3.2.1 Test Result

Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	5.046	/	Pass
		2595	25	0	5.204	/	Pass
		2617.5	25	0	5.027	/	Pass
	16QAM	2572.5	25	0	5.342	/	Pass
		2595	25	0	5.160	/	Pass
		2617.5	25	0	5.302	/	Pass
	64QAM	2572.5	25	0	5.057	/	Pass
		2595	25	0	5.005	/	Pass
		2617.5	25	0	5.136	/	Pass
10	QPSK	2575	50	0	9.943	/	Pass
		2595	50	0	10.124	/	Pass
		2615	50	0	10.011	/	Pass
	16QAM	2575	50	0	10.235	/	Pass
		2595	50	0	9.912	/	Pass
		2615	50	0	11.468	/	Pass
	64QAM	2575	50	0	10.838	/	Pass
		2595	50	0	10.163	/	Pass
		2615	50	0	10.029	/	Pass
15	QPSK	2577.5	75	0	15.495	/	Pass
		2595	75	0	15.108	/	Pass
		2612.5	75	0	15.524	/	Pass
	16QAM	2577.5	75	0	15.756	/	Pass
		2595	75	0	16.108	/	Pass
		2612.5	75	0	18.511	/	Pass
	64QAM	2577.5	75	0	14.874	/	Pass
		2595	75	0	15.661	/	Pass
		2612.5	75	0	15.201	/	Pass
20	QPSK	2580	100	0	19.853	/	Pass
		2595	100	0	19.965	/	Pass
		2610	100	0	20.011	/	Pass
	16QAM	2580	100	0	19.928	/	Pass
		2595	100	0	20.712	/	Pass
		2610	100	0	20.033	/	Pass
	64QAM	2580	100	0	19.894	/	Pass
		2595	100	0	20.486	/	Pass
		2610	100	0	20.320	/	Pass



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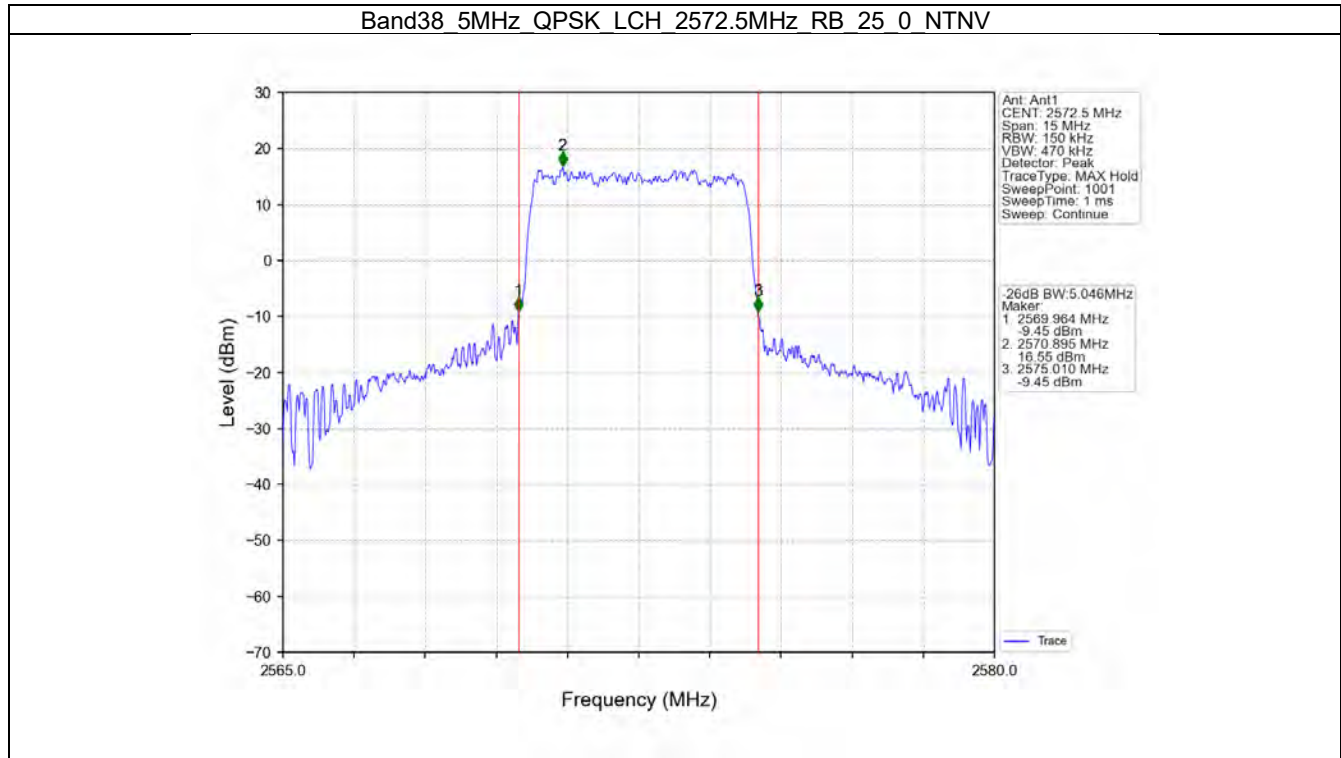
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3.2.2 Test Graph



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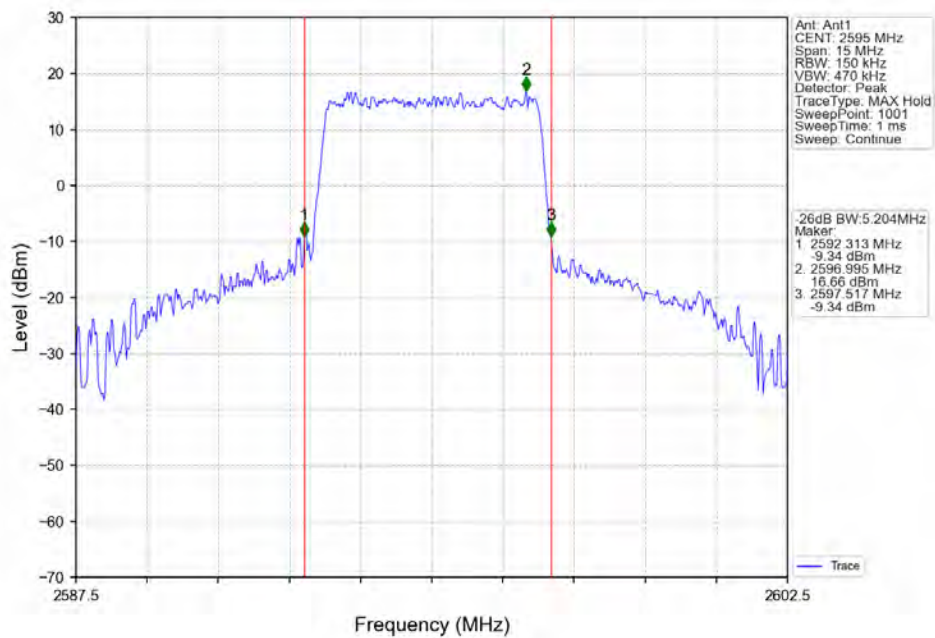
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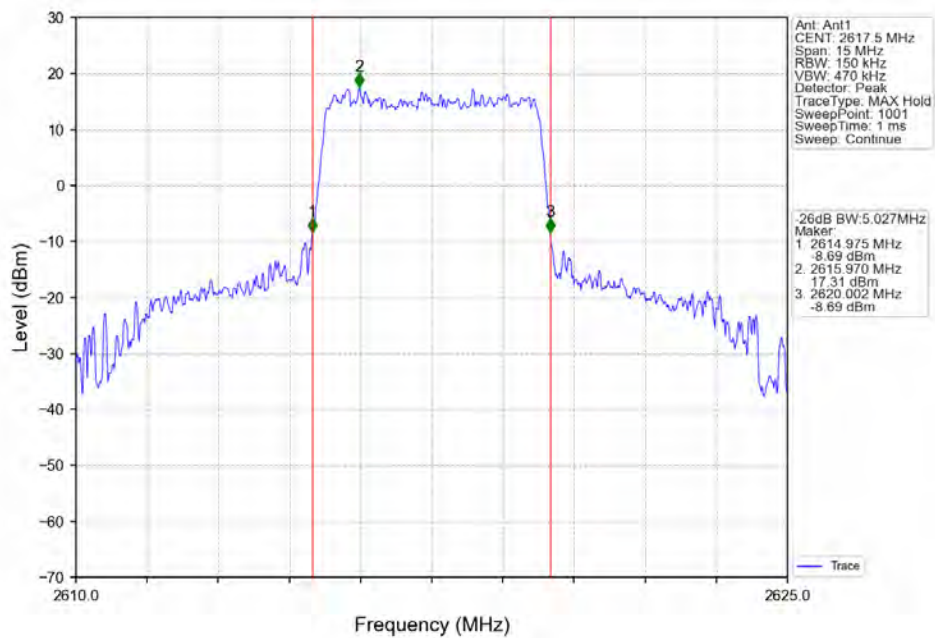
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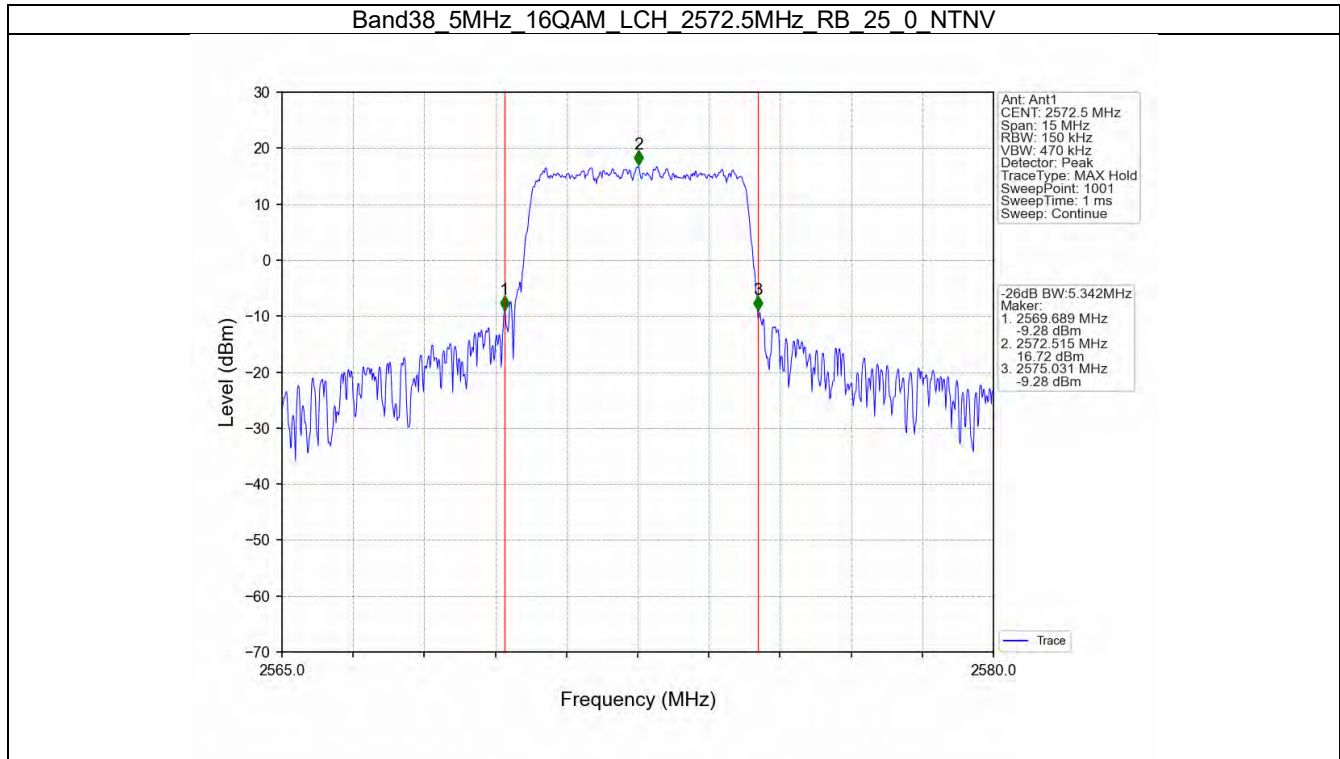


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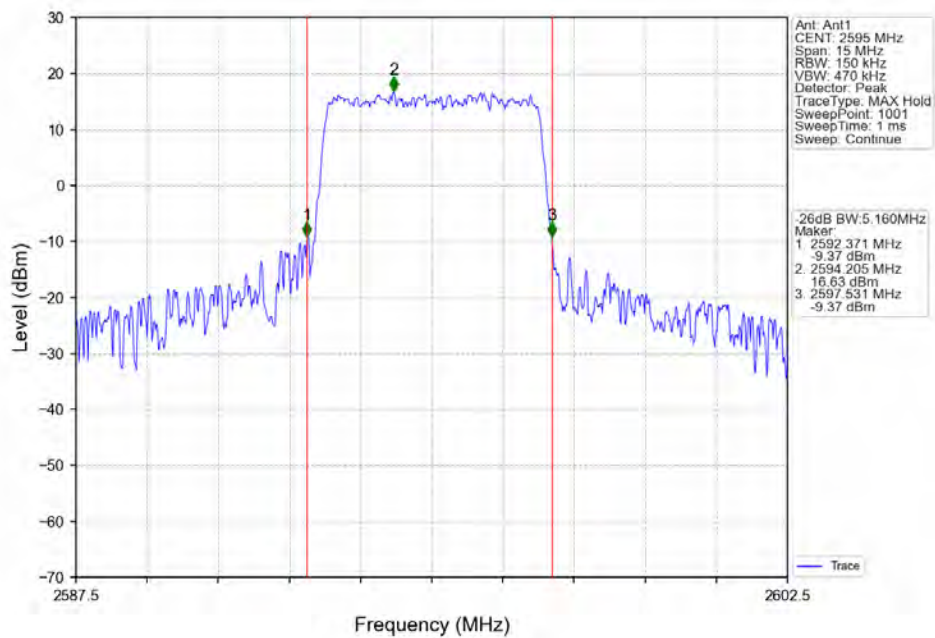
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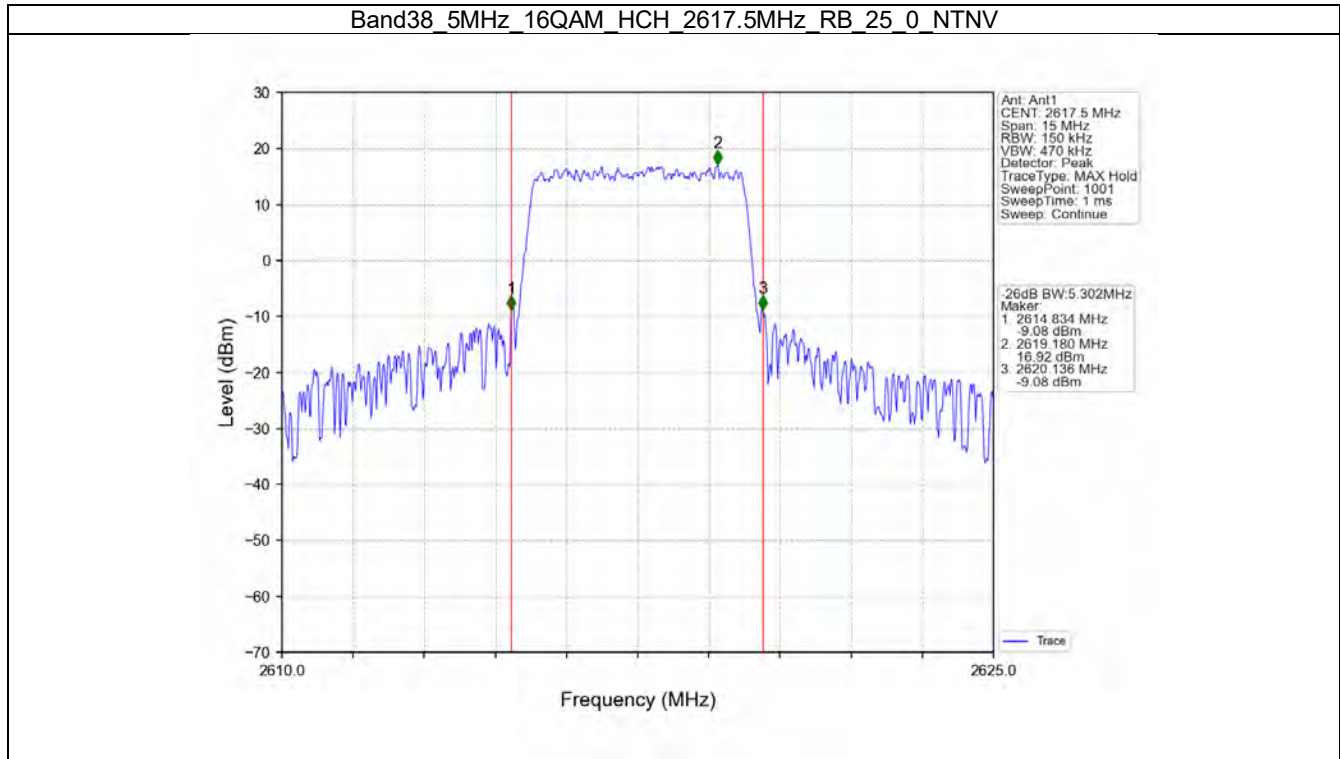


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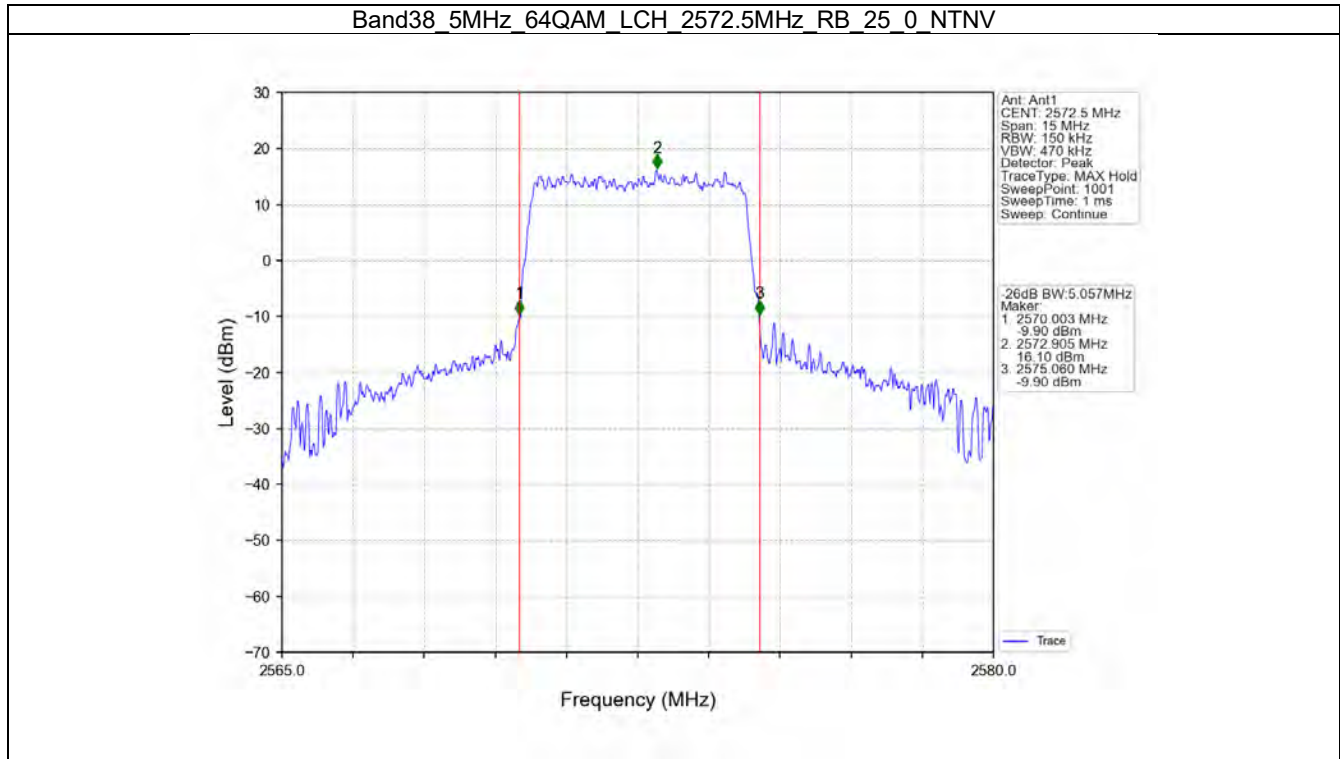


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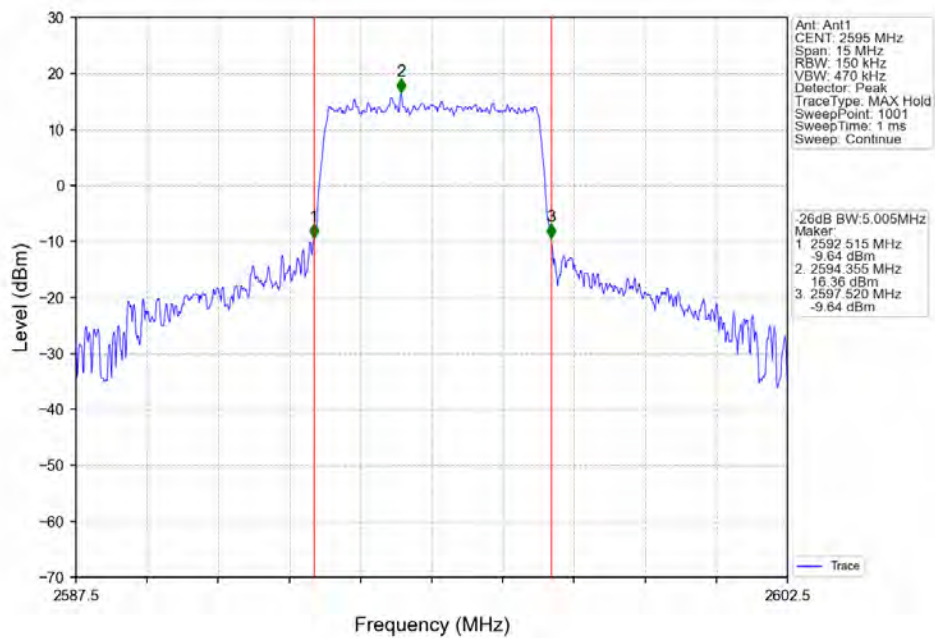
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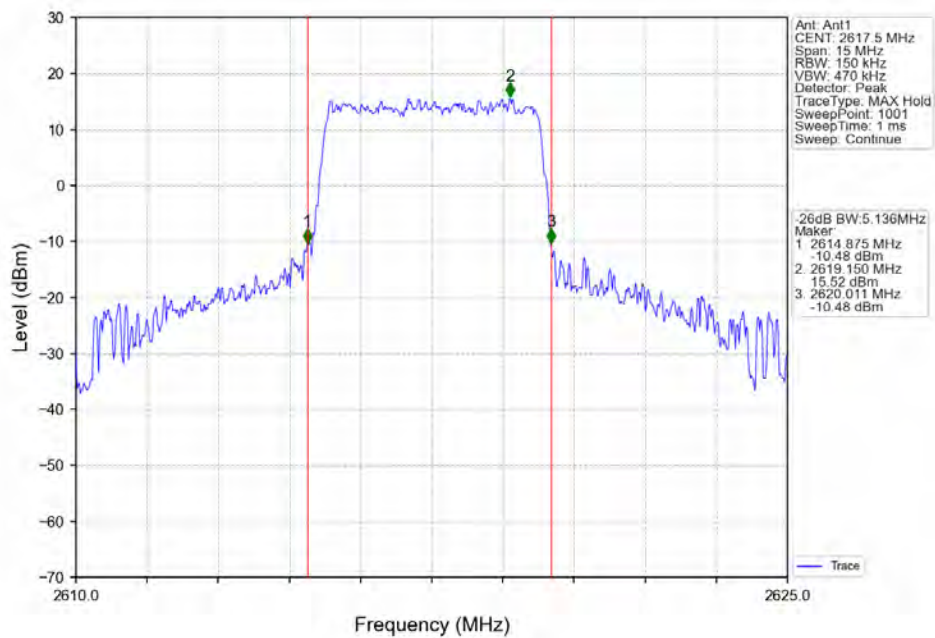
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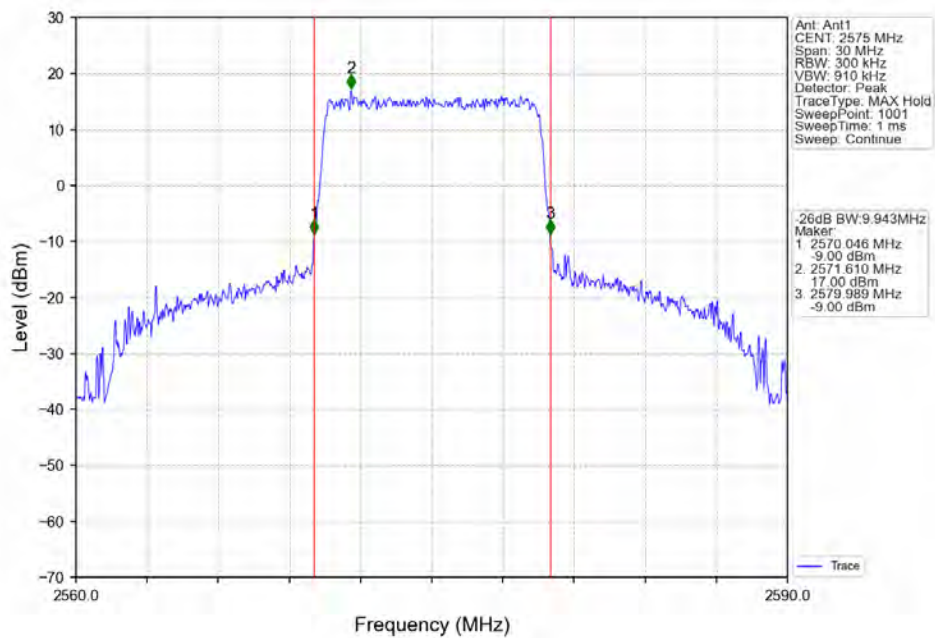
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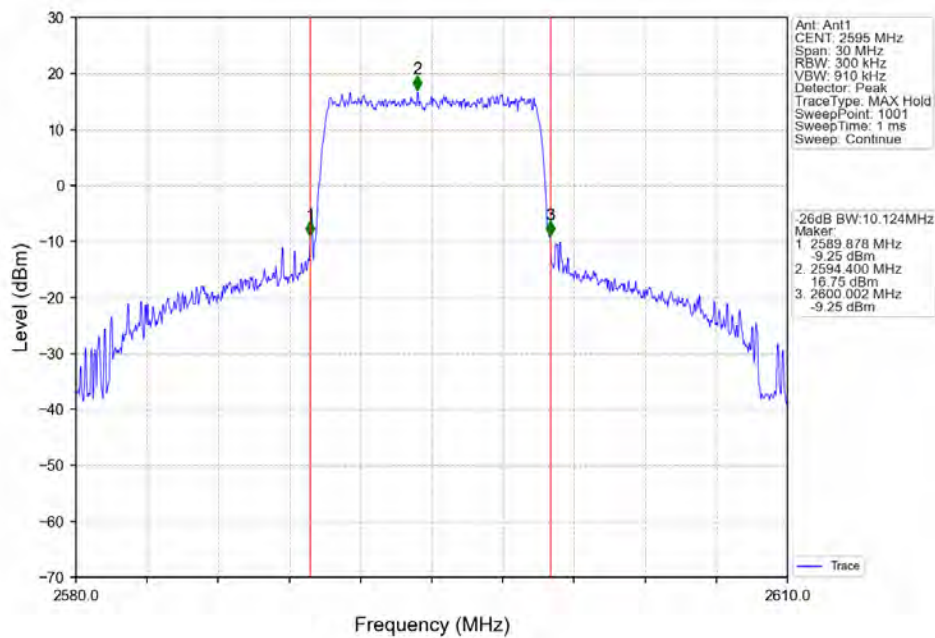
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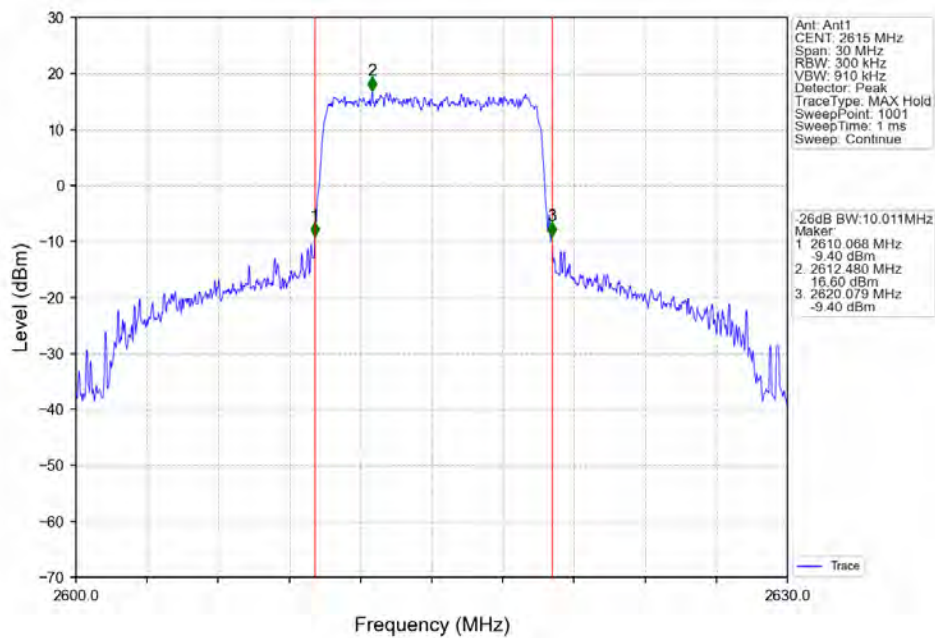
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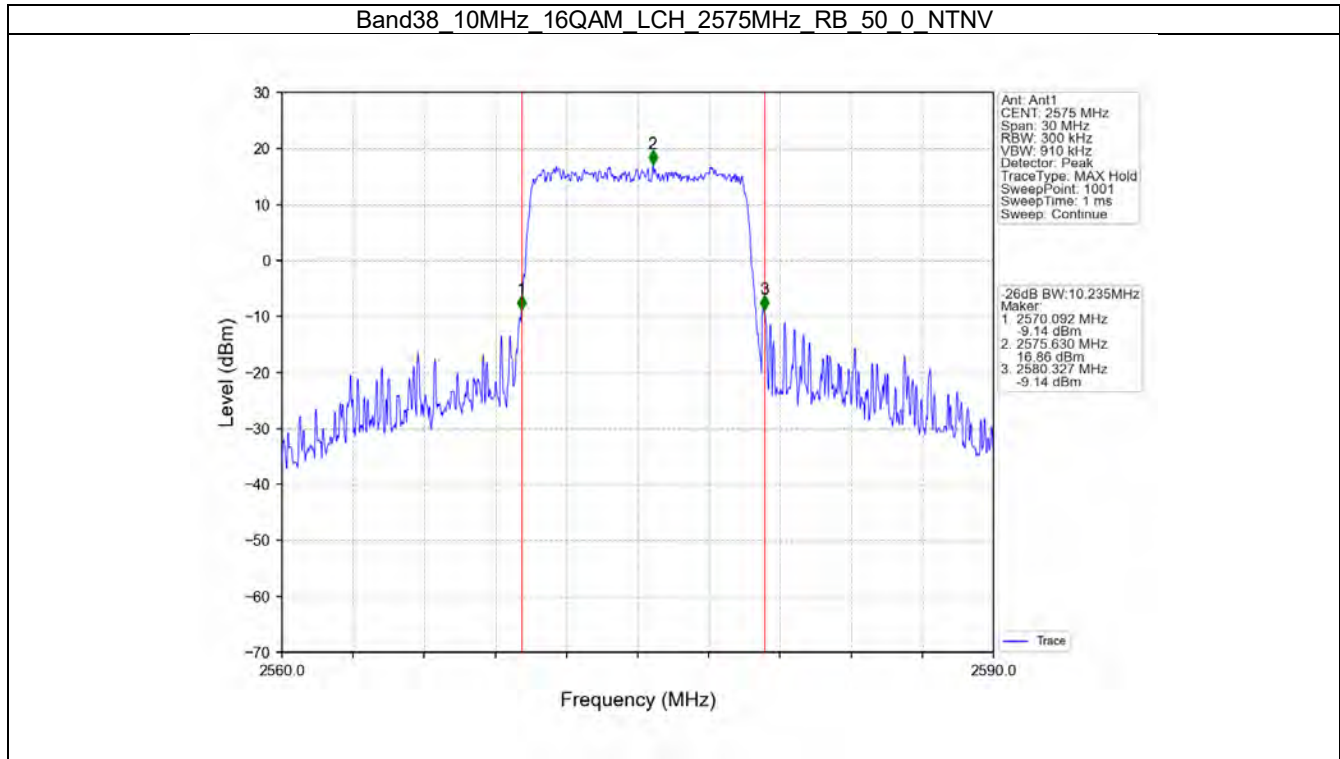


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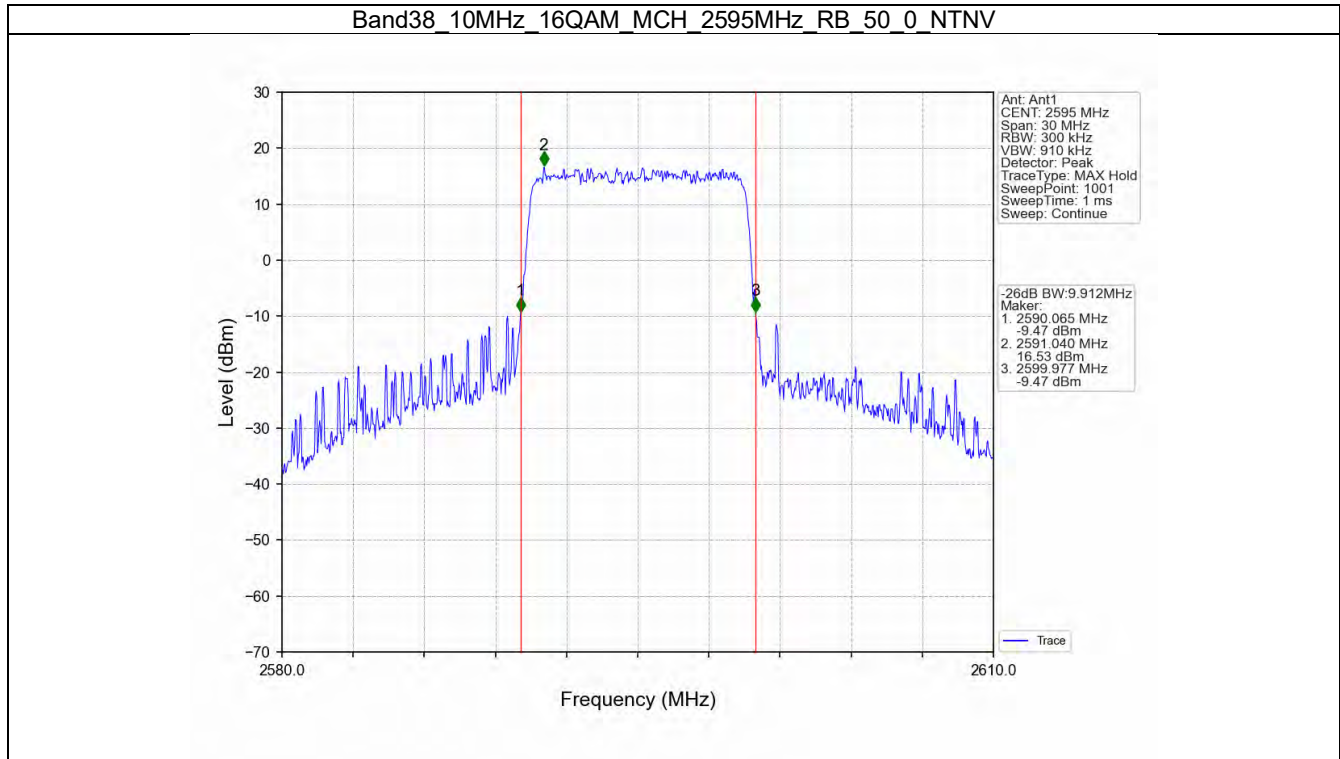


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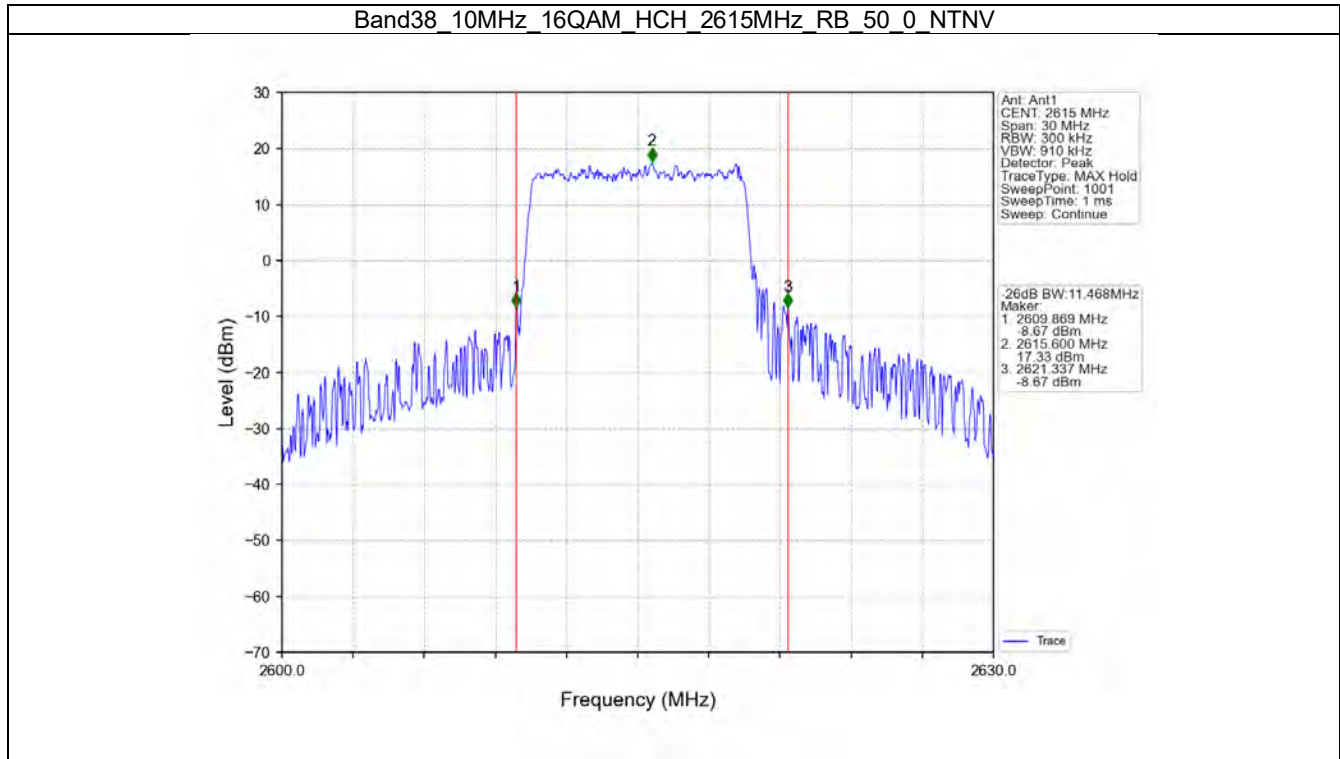


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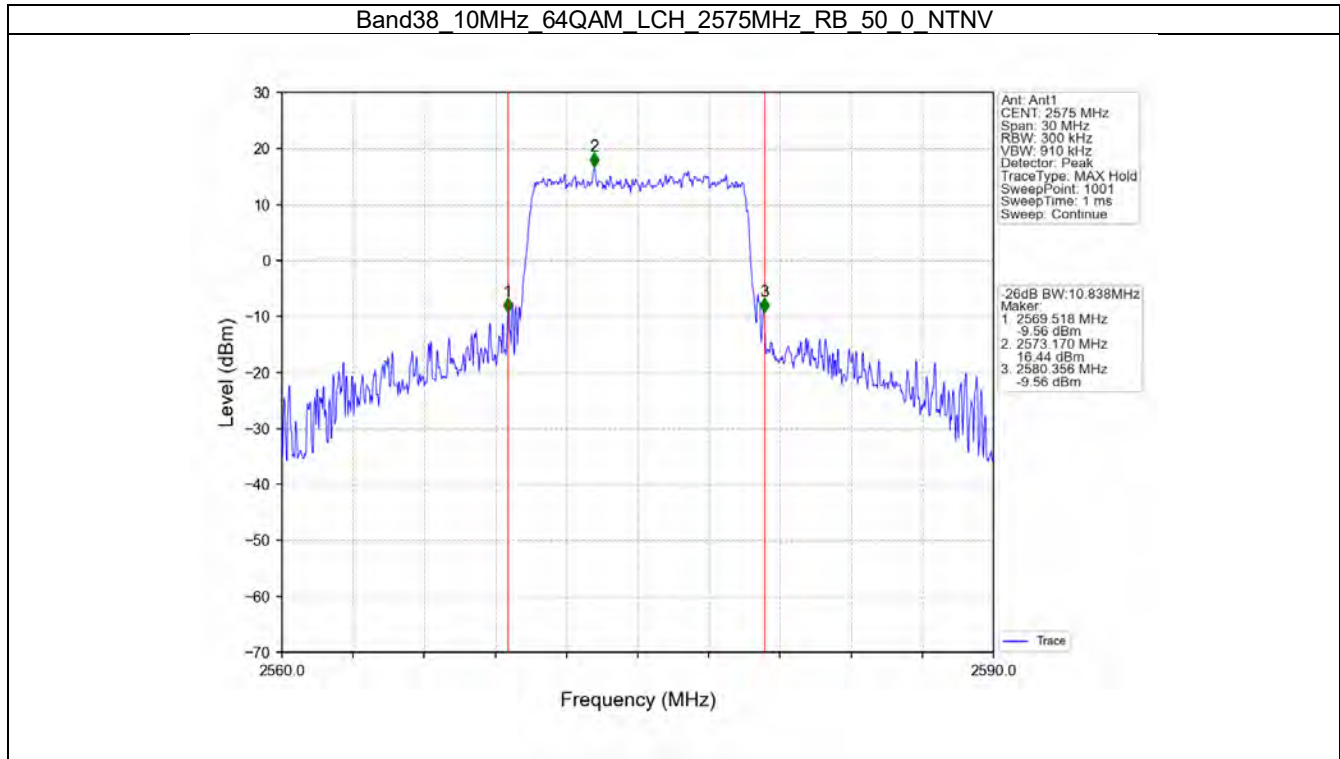


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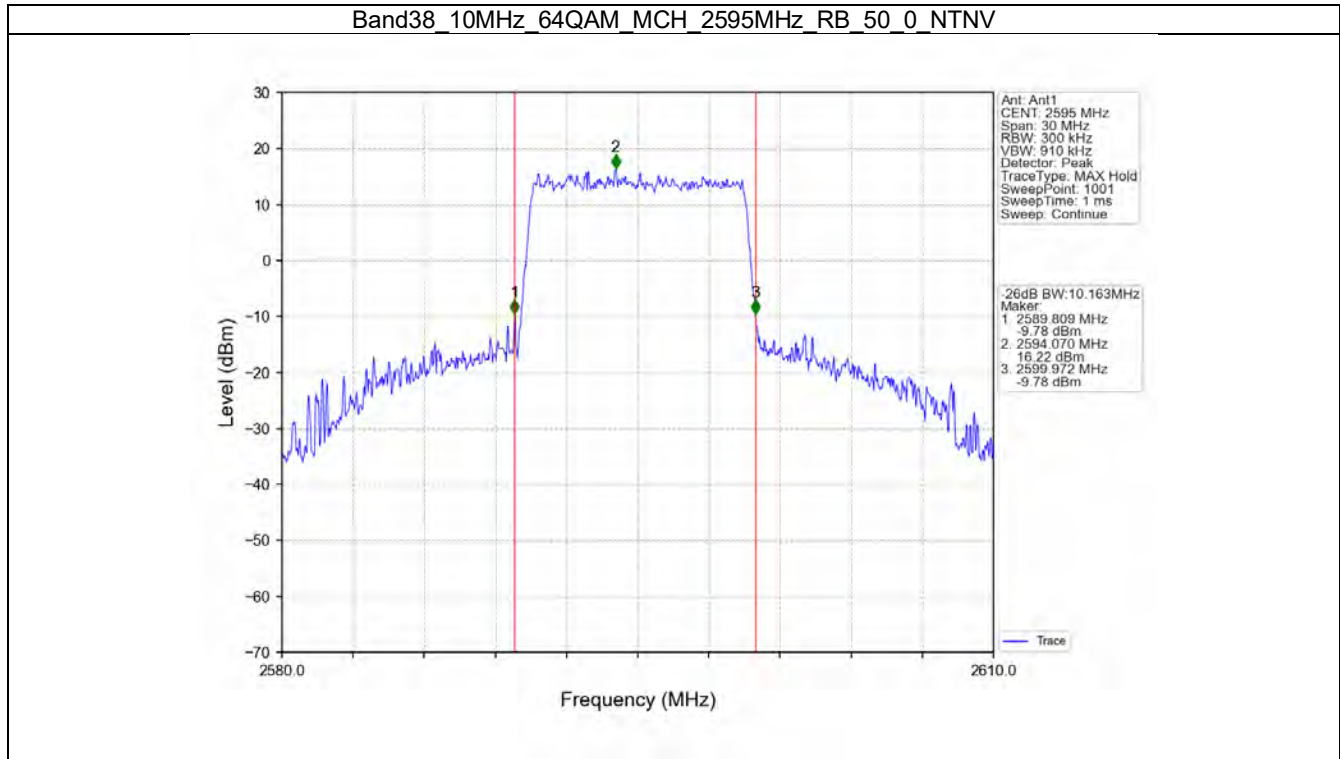


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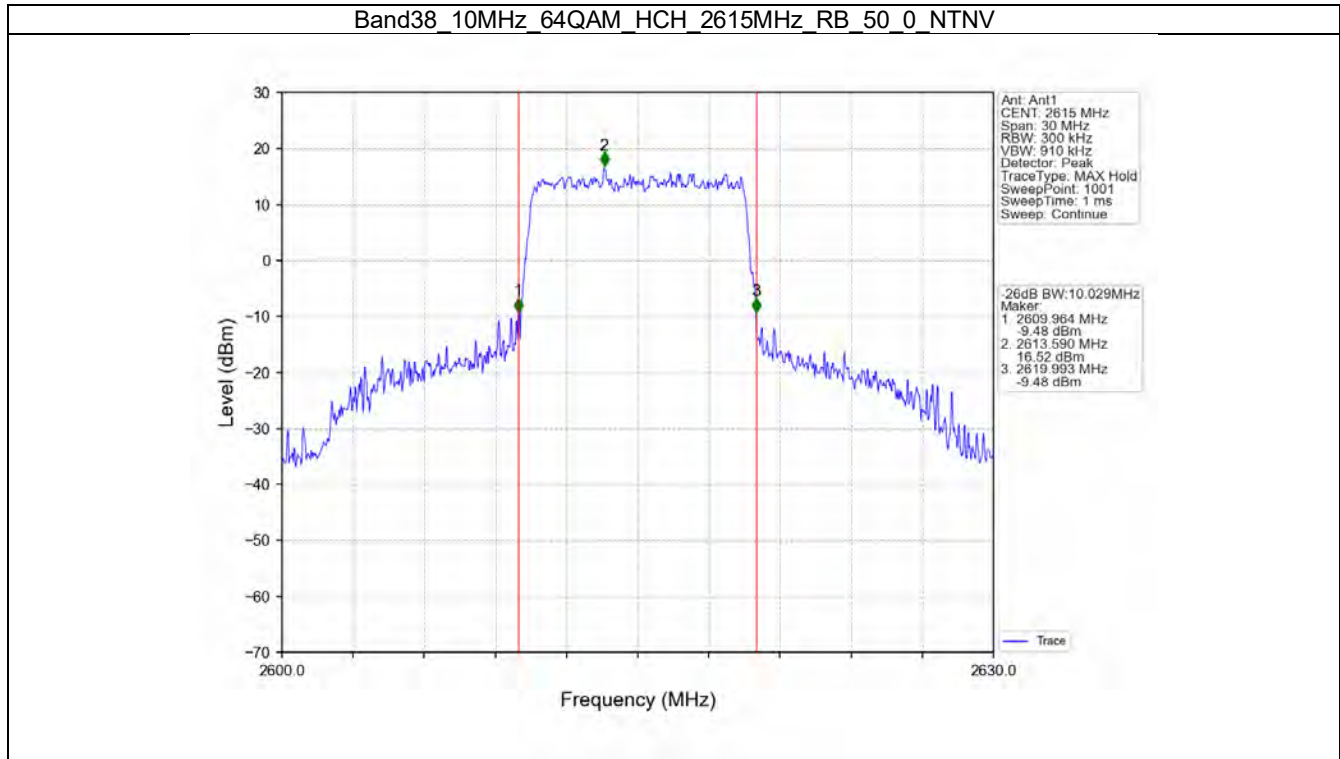


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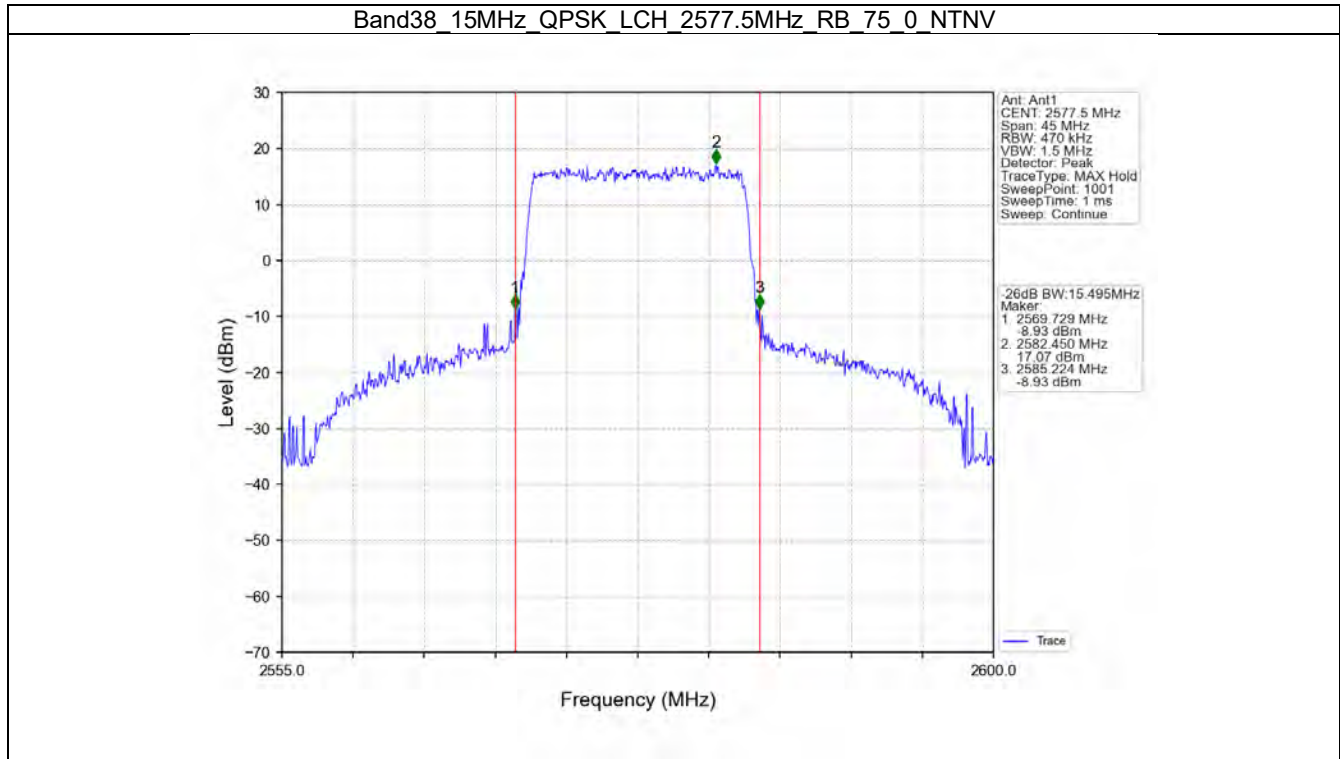


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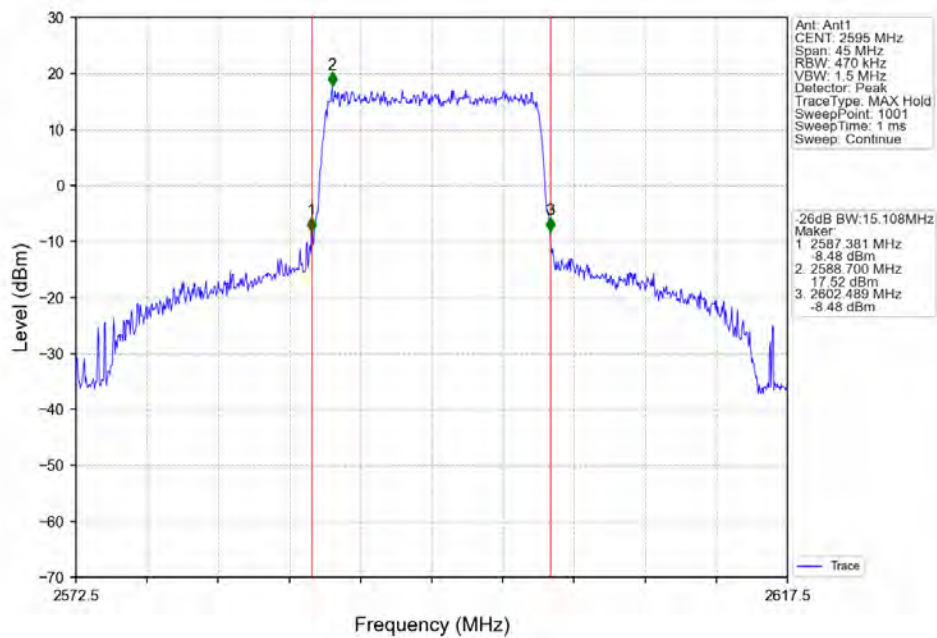
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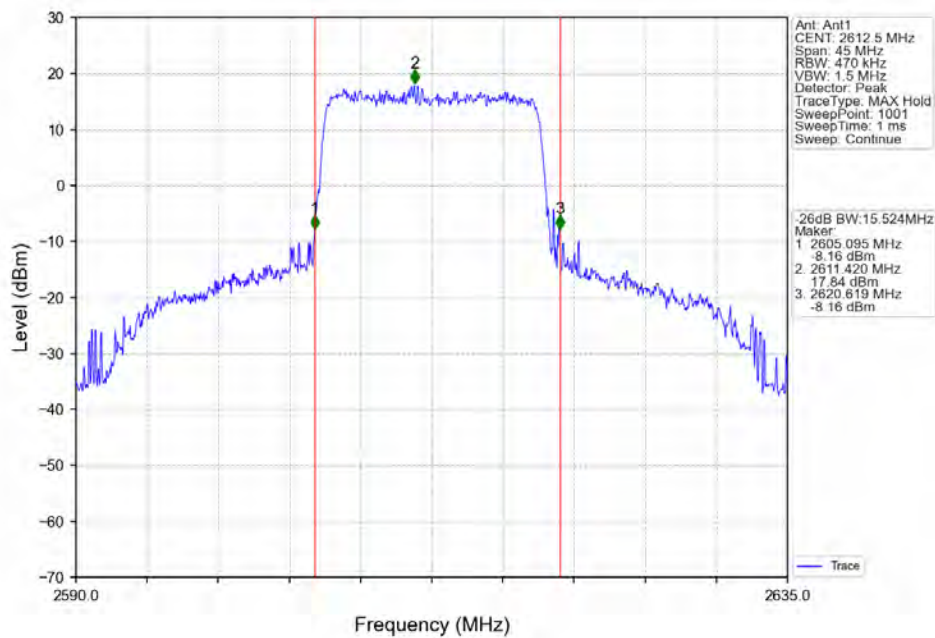
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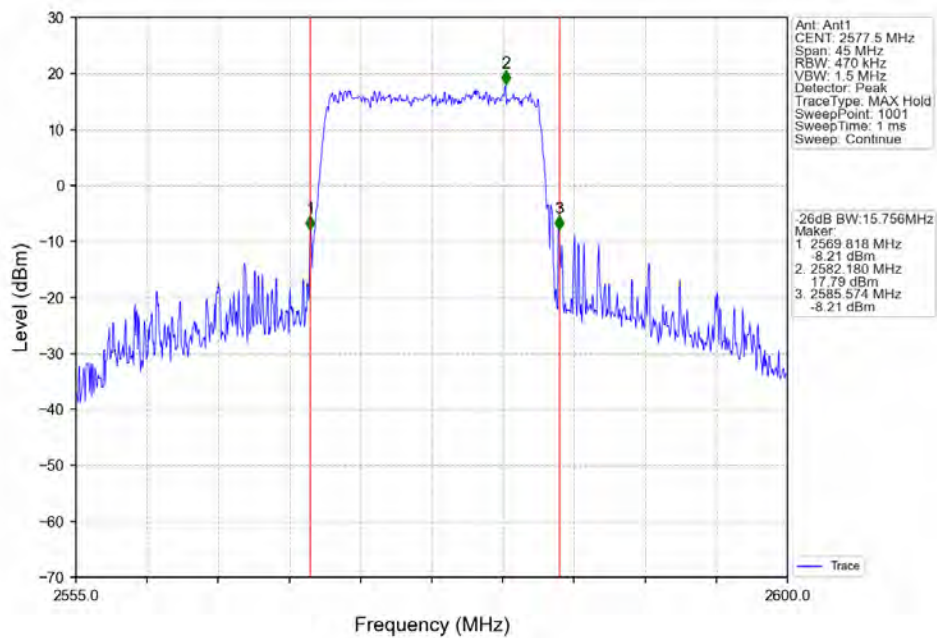
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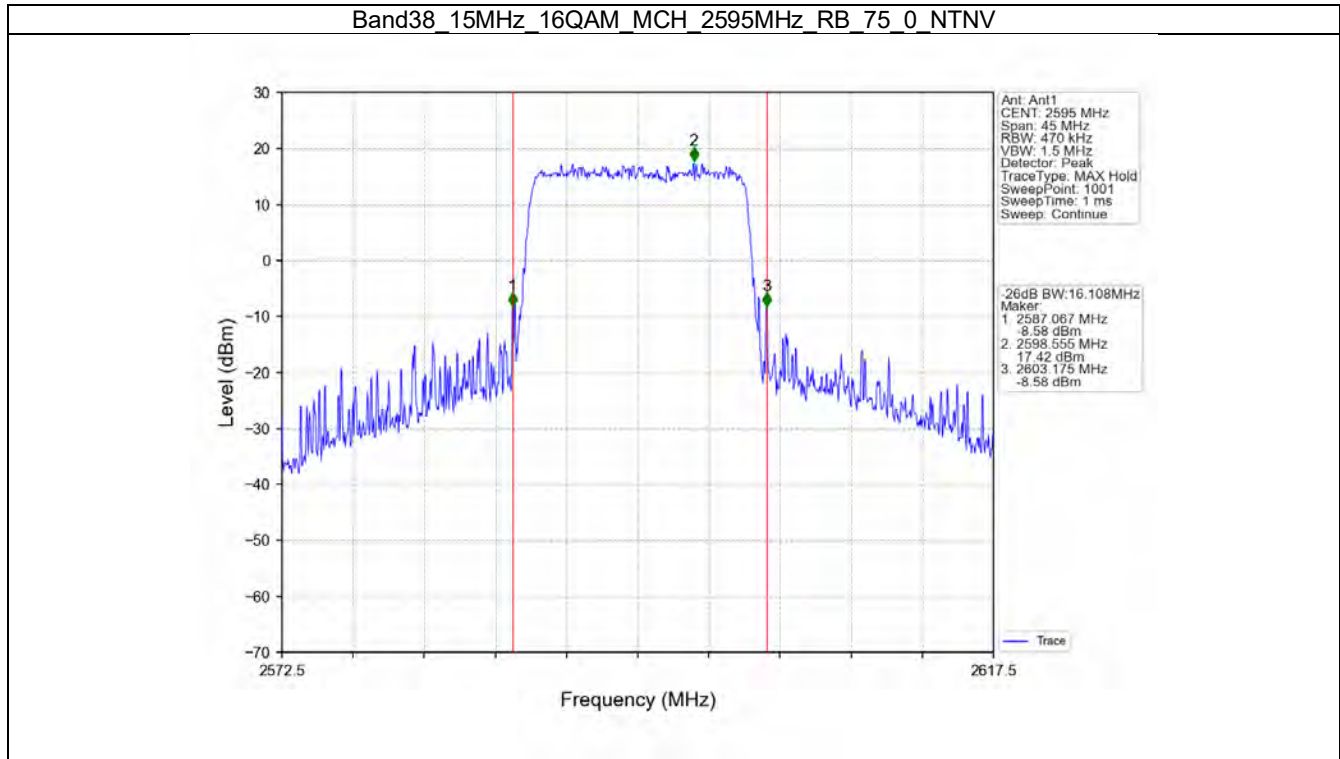


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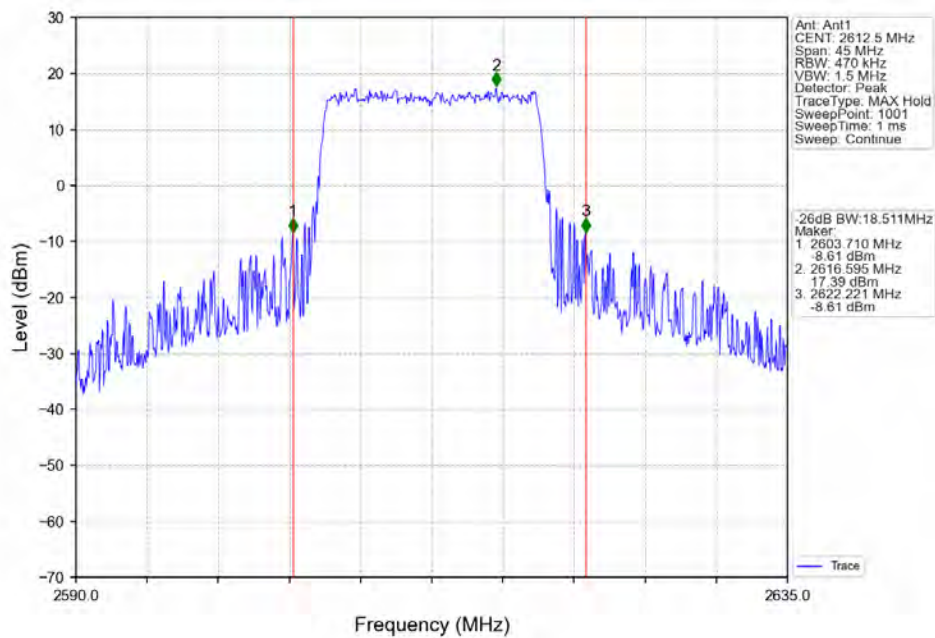
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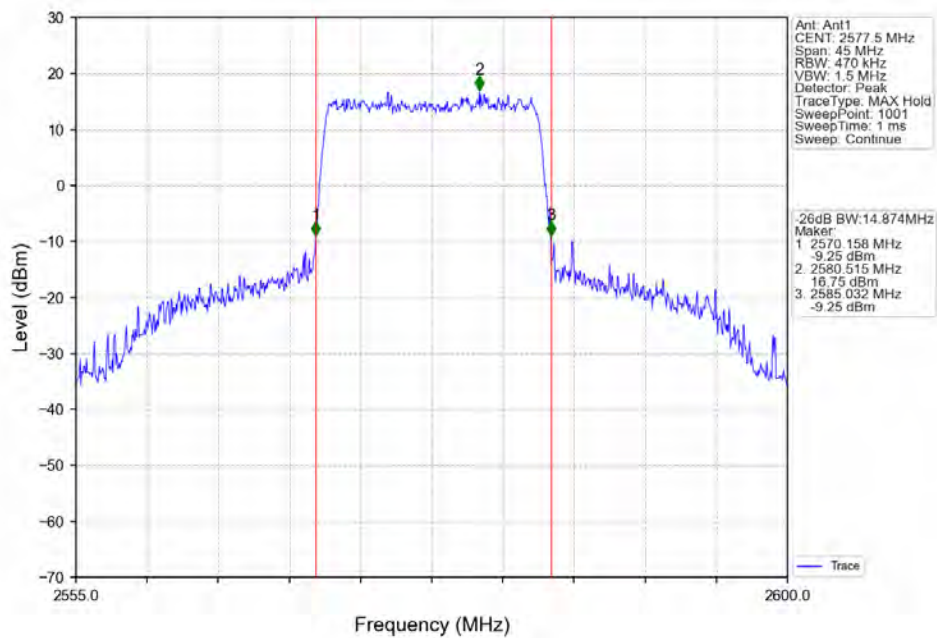
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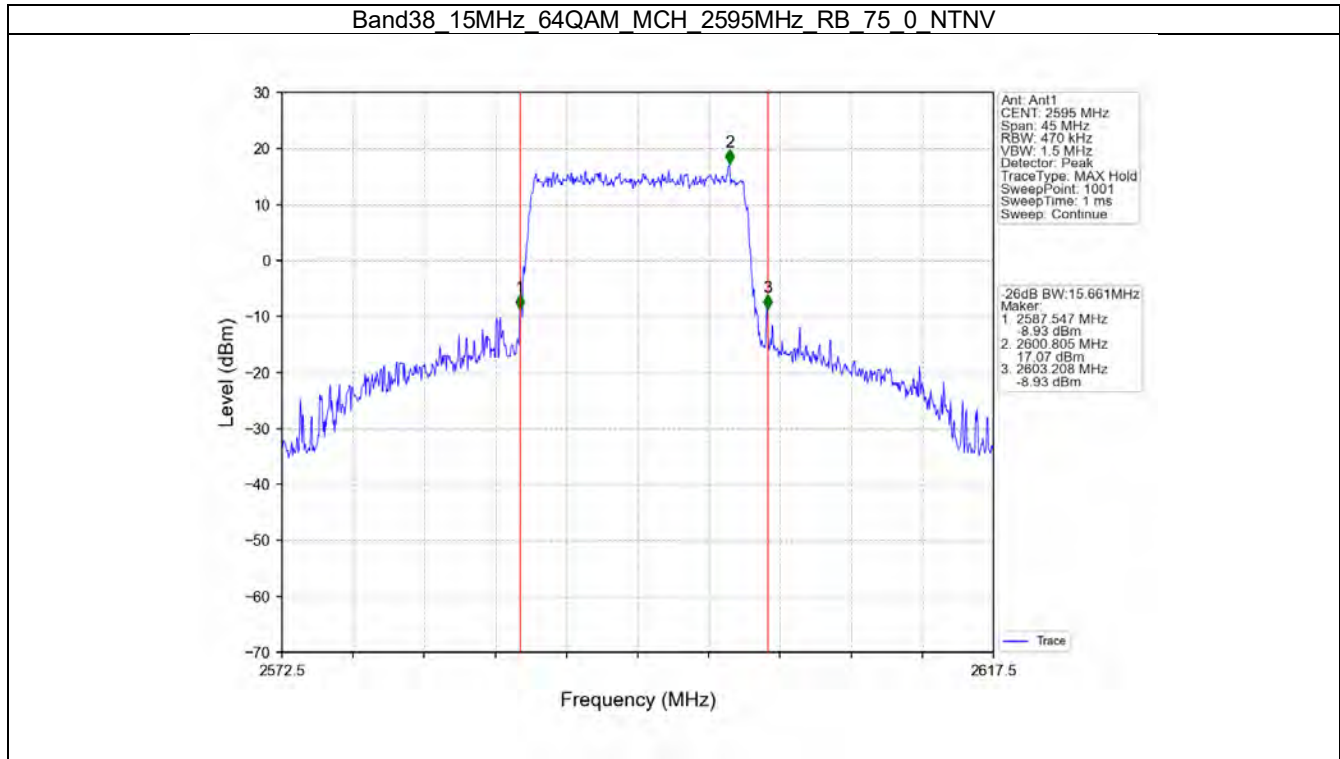


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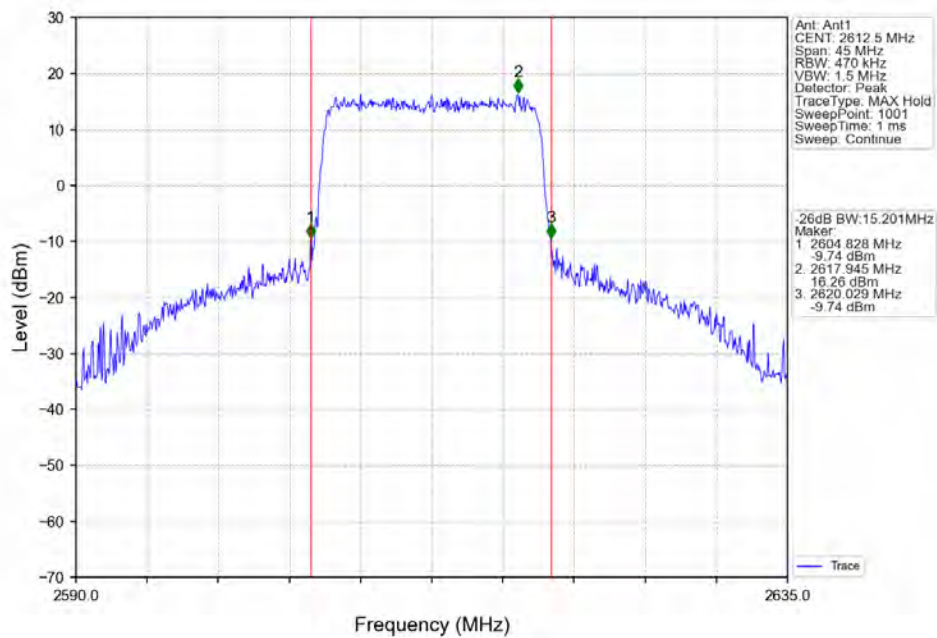
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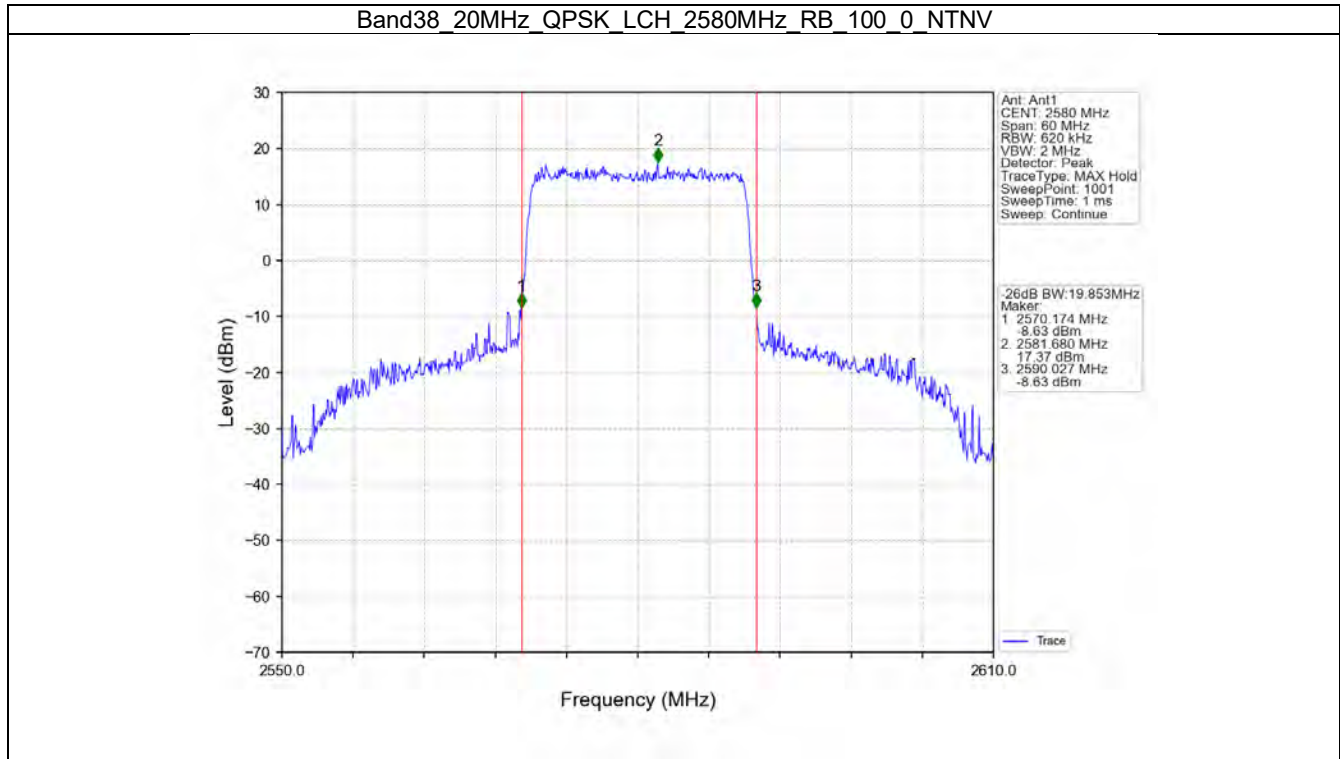


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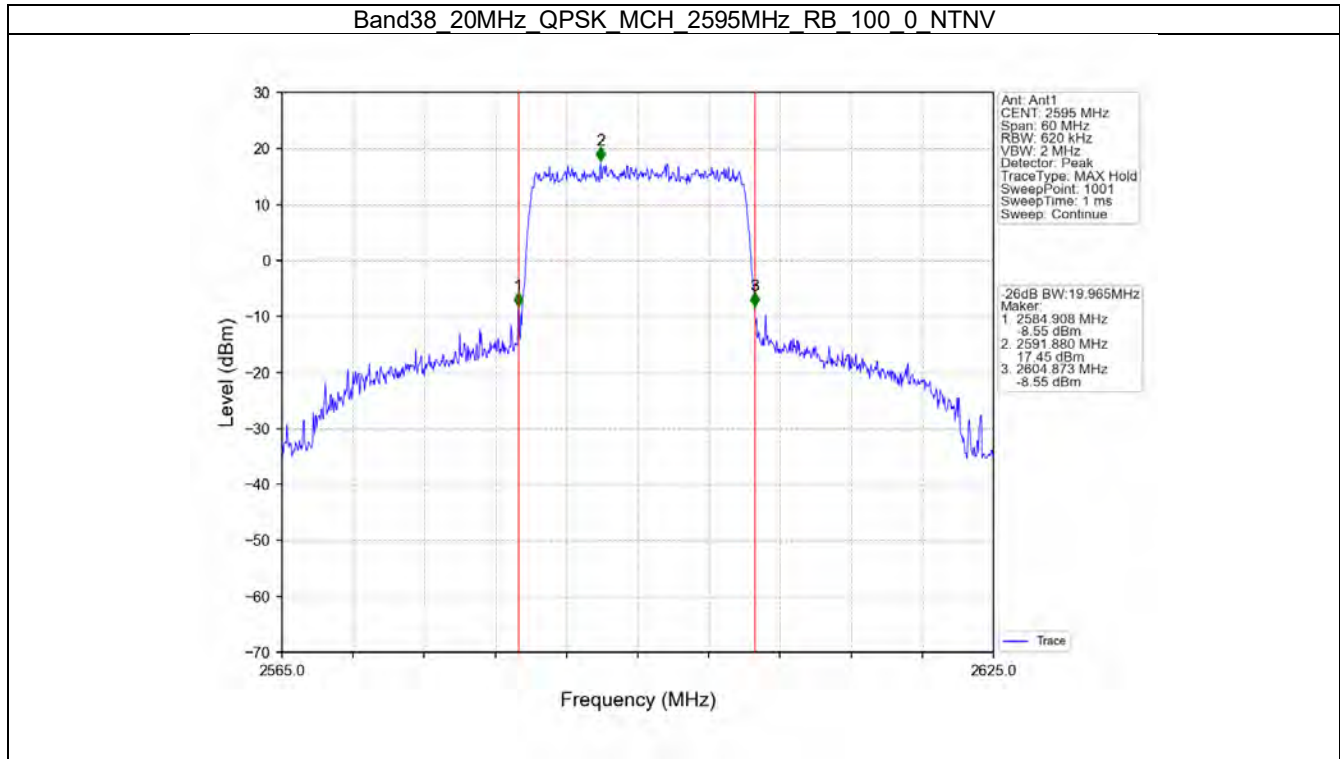


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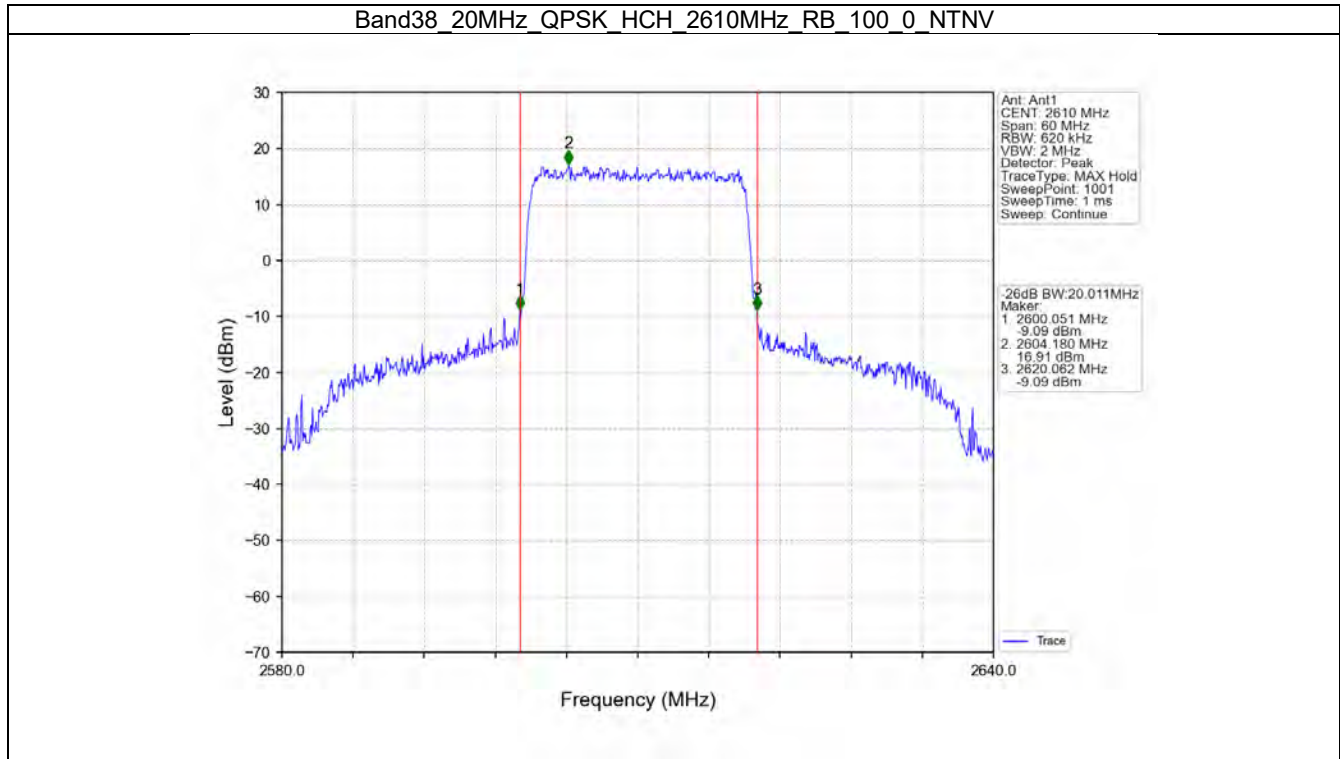


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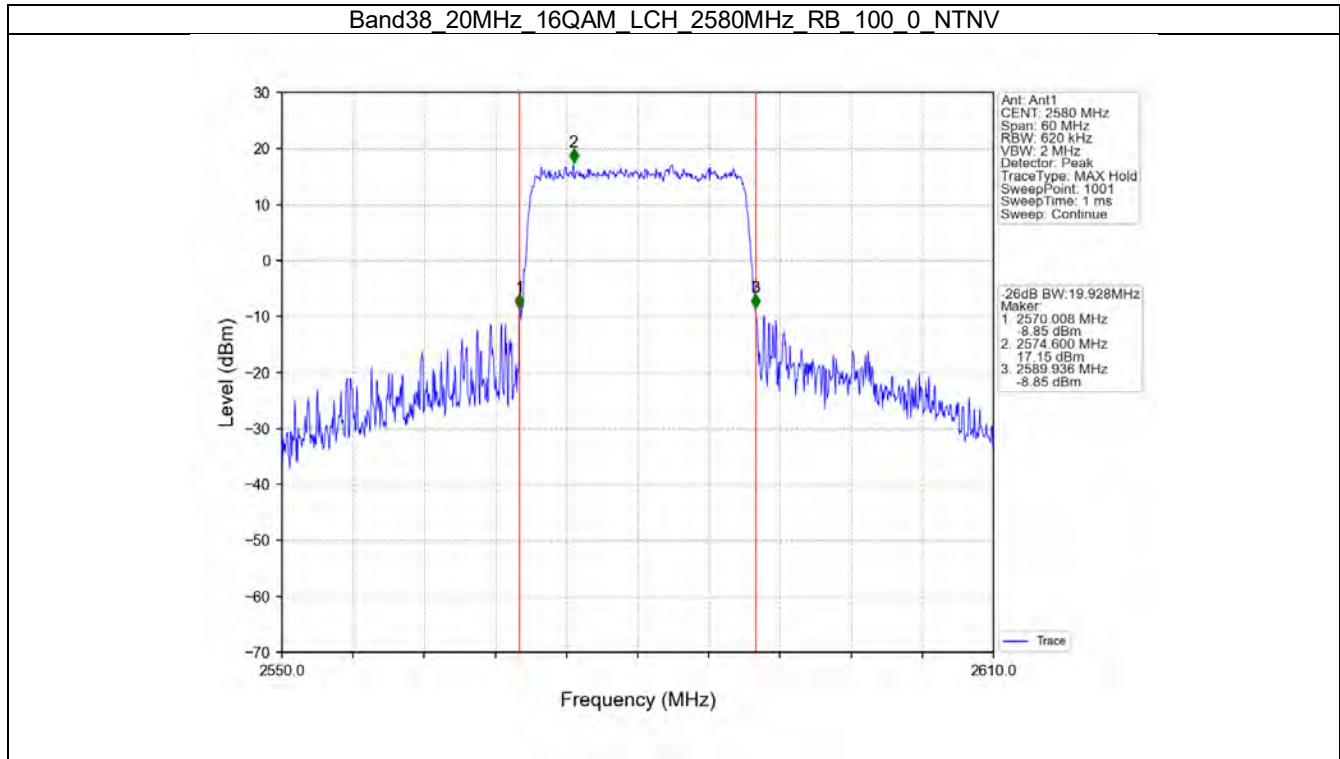


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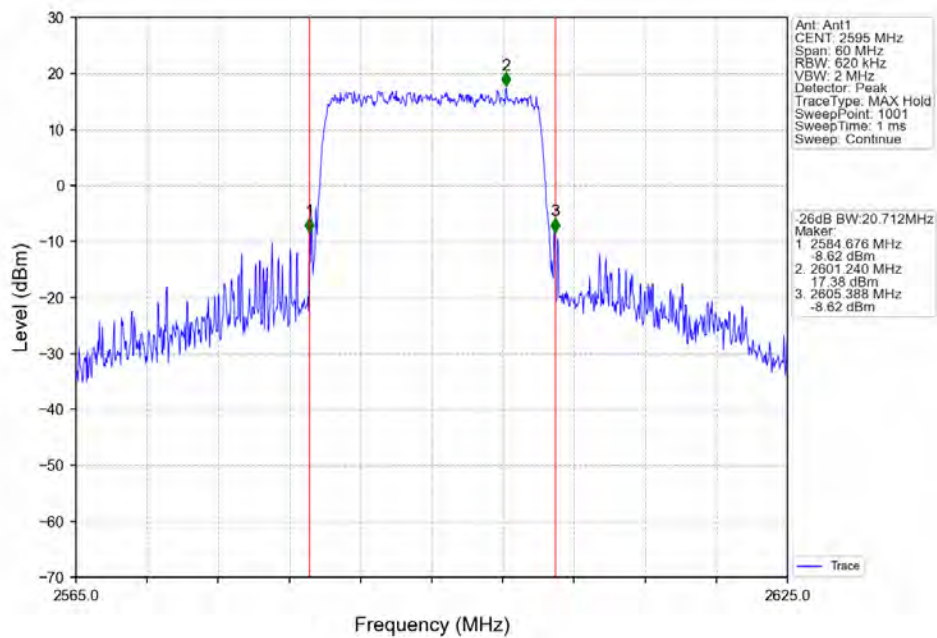
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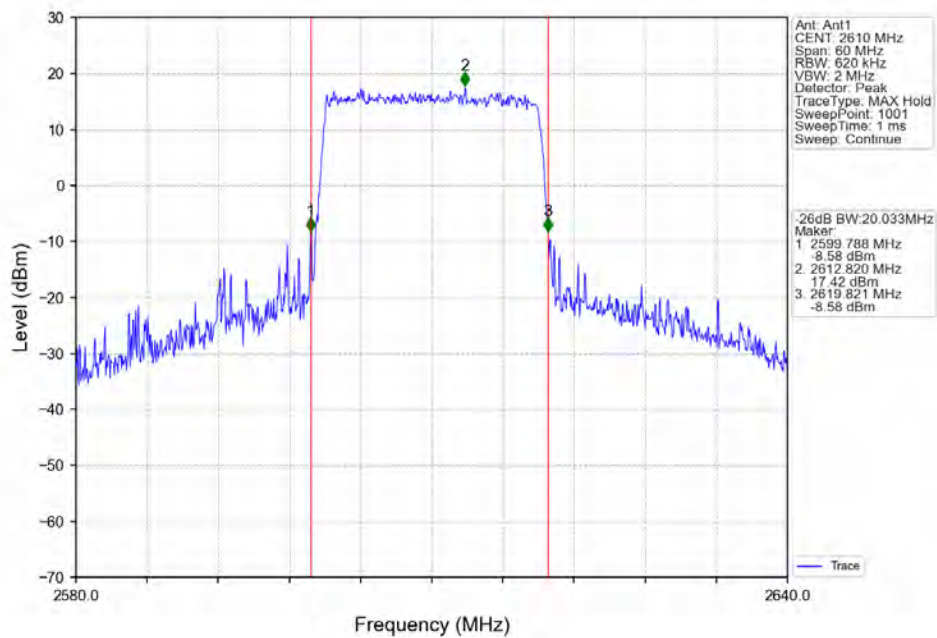
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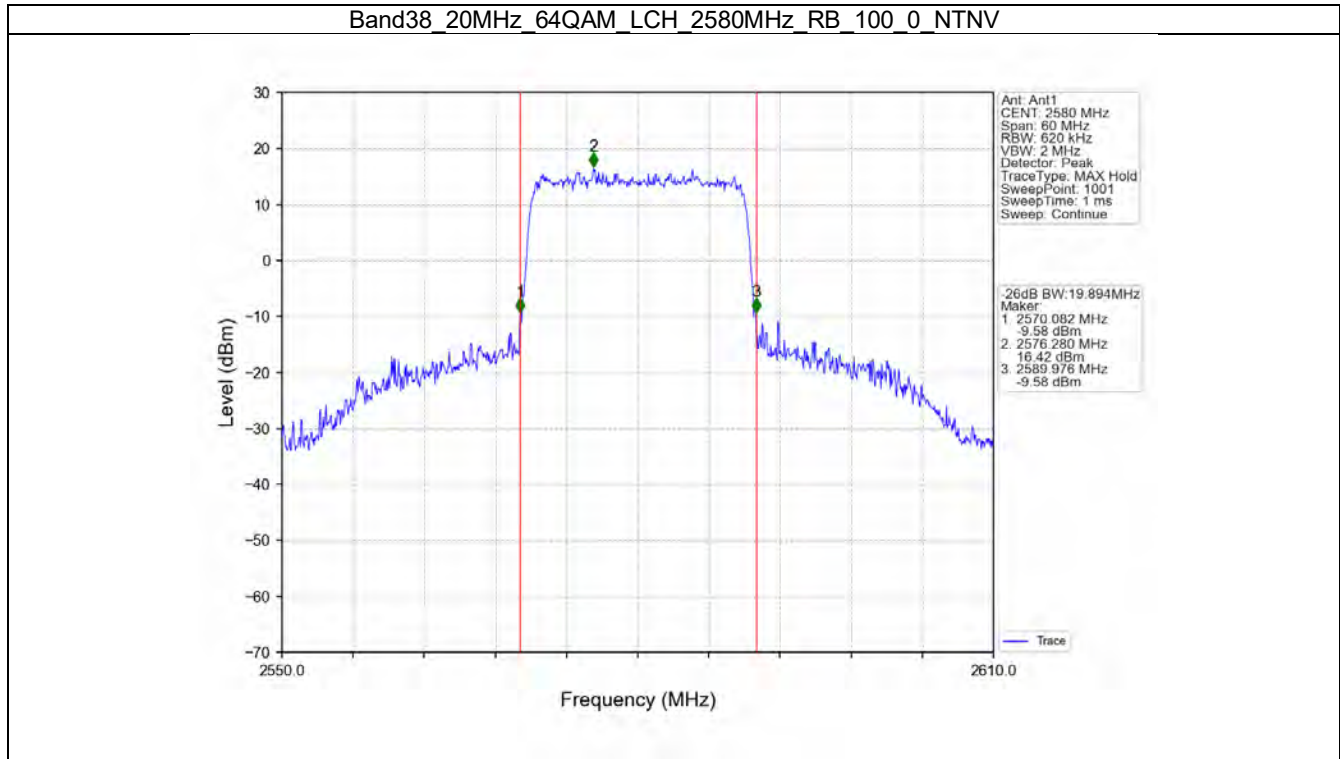


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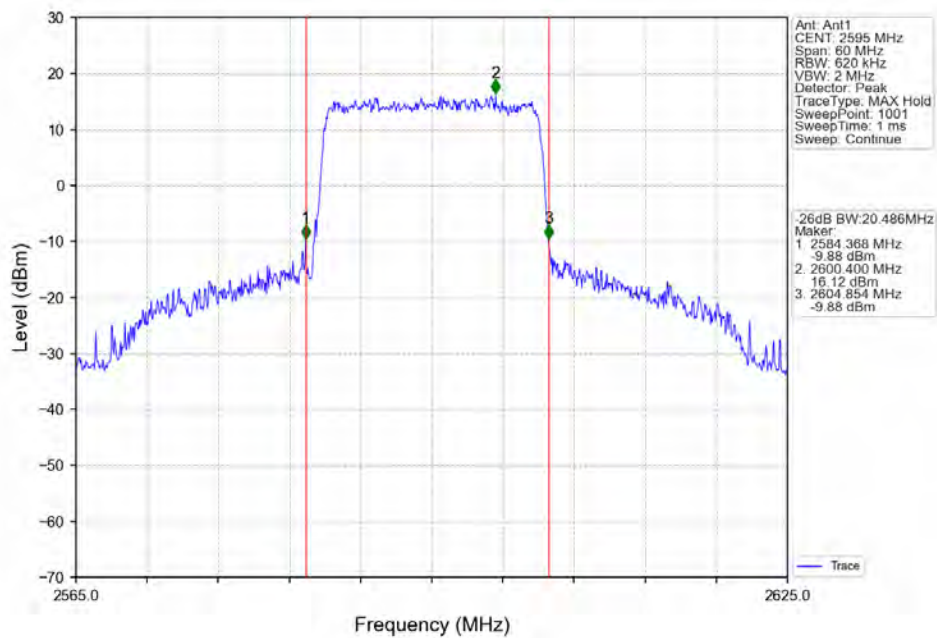
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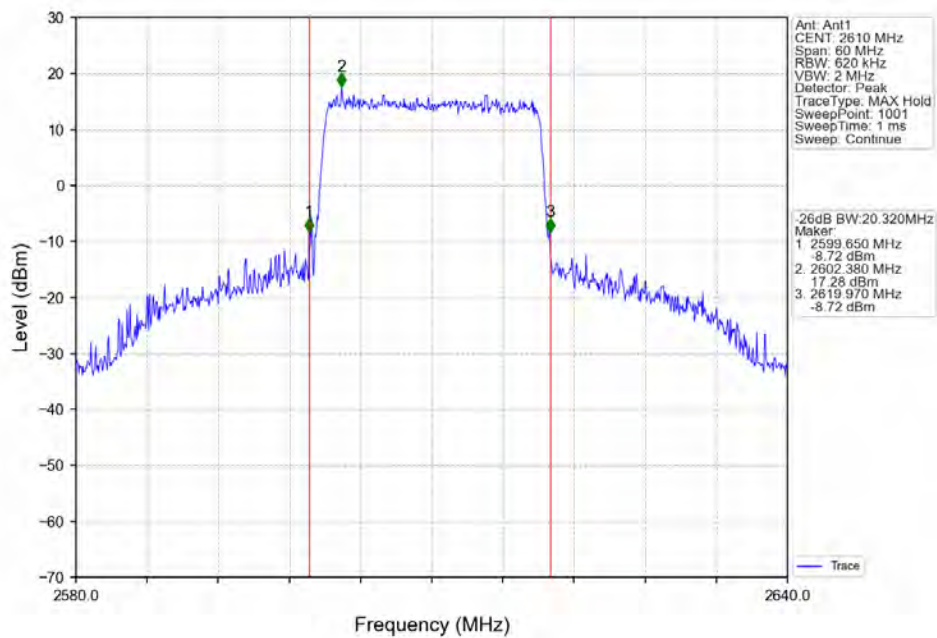
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4. Peak-Average Ratio

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	7.14	<=13	Pass
	2595	25	0	7.03	<=13	Pass
	2617.5	25	0	7.02	<=13	Pass
16QAM	2572.5	25	0	8.19	<=13	Pass
	2595	25	0	8.13	<=13	Pass
	2617.5	25	0	8.17	<=13	Pass
64QAM	2572.5	25	0	7.91	<=13	Pass
	2595	25	0	7.88	<=13	Pass
	2617.5	25	0	7.81	<=13	Pass



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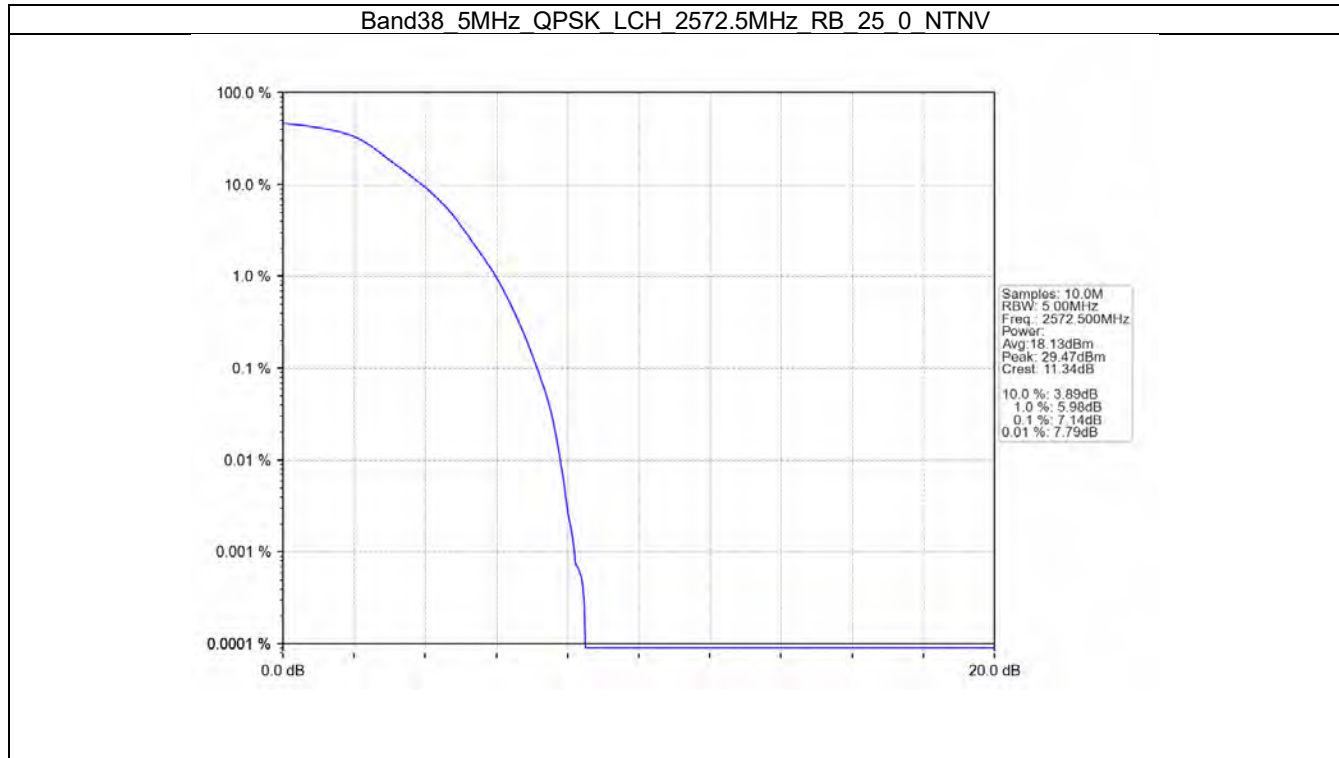
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4.1.2 Test Graph



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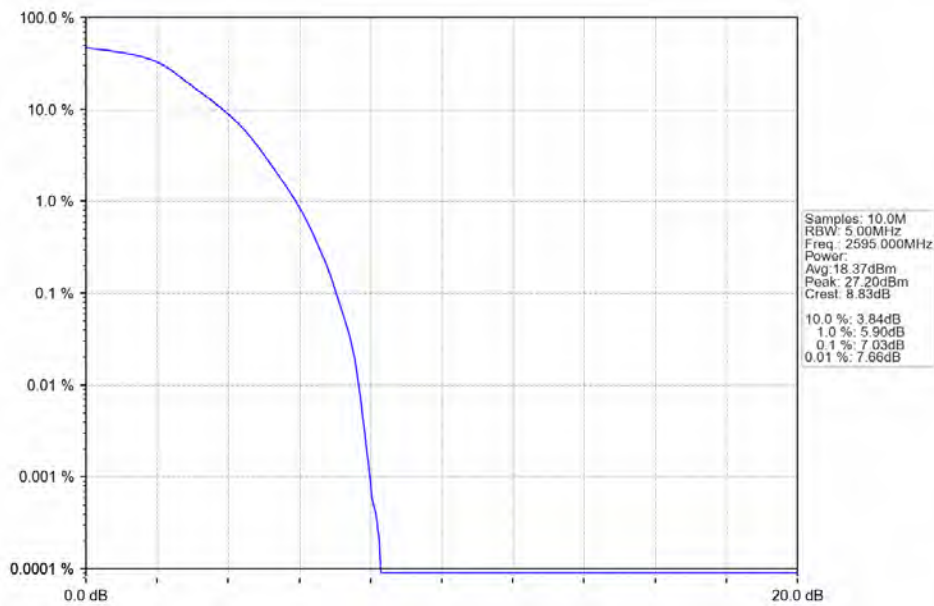
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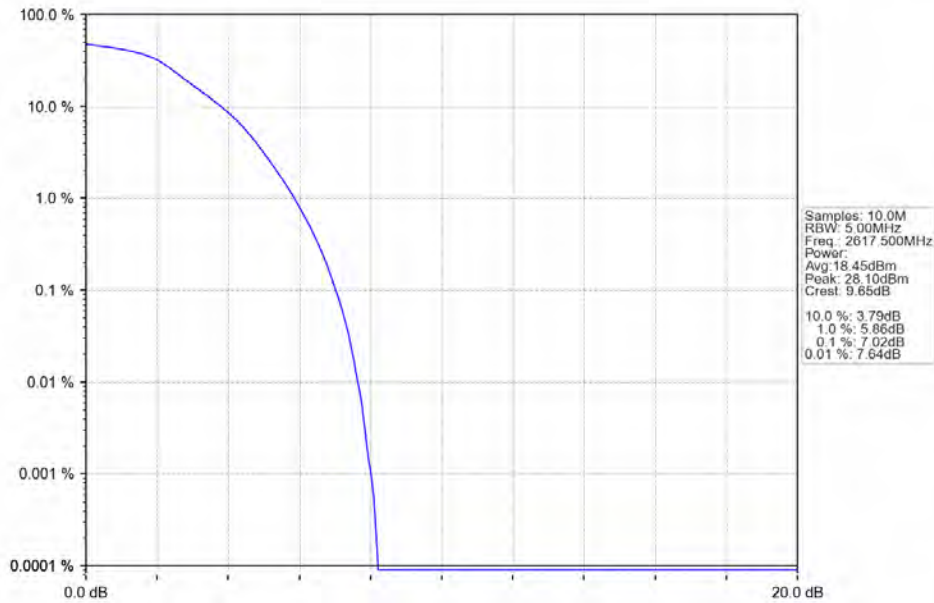
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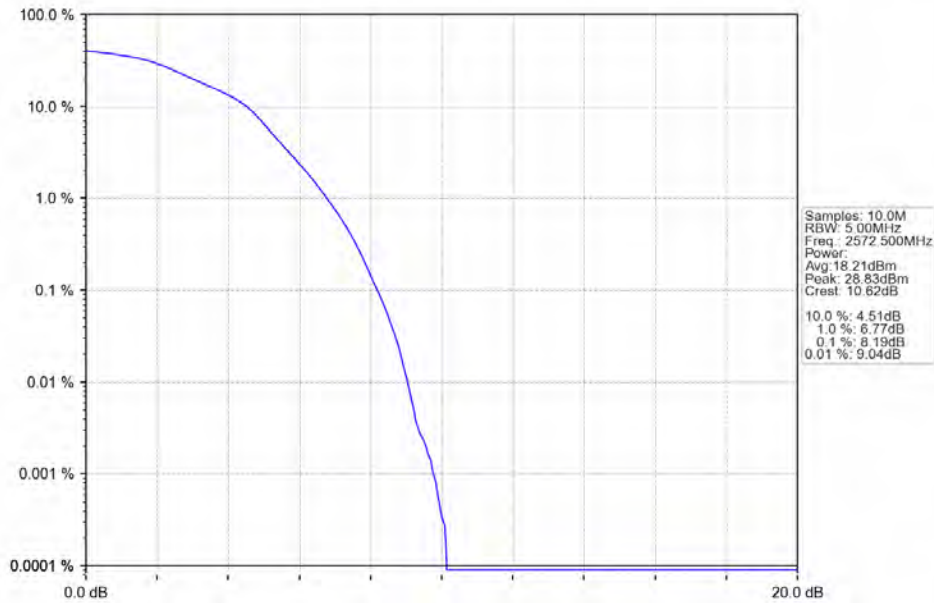
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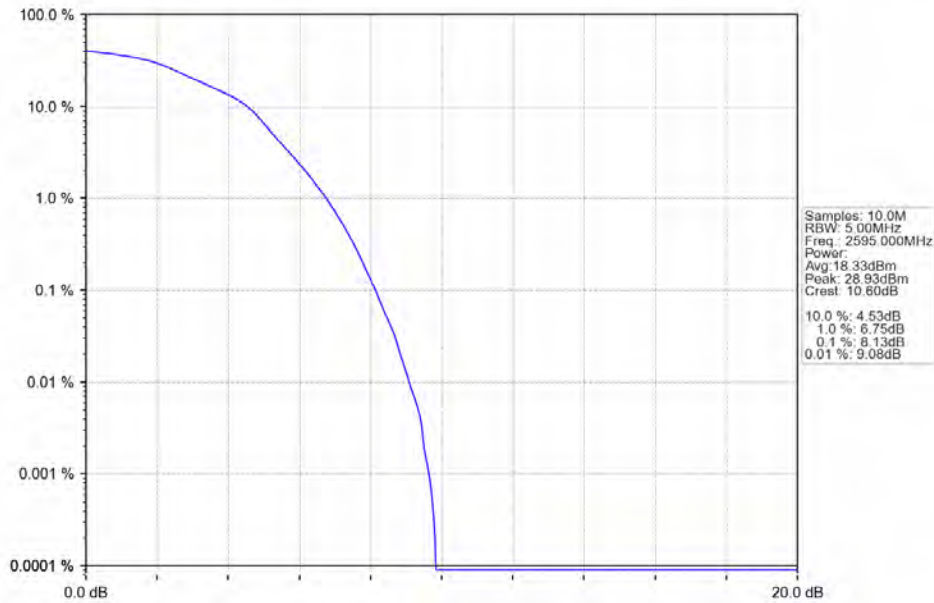
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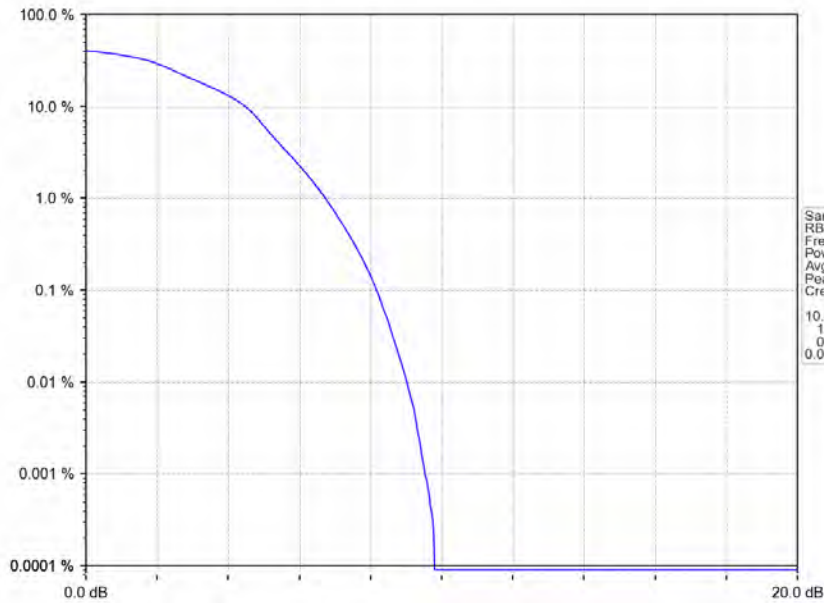
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Samples: 10.0M
RBW: 5.00MHz
Freq: 2617.500MHz
Power:
Avg: 18.41dBm
Peak: 29.15dBm
Crest: 10.74dB

10.0 %: 4.47dB
1.0 %: 6.73dB
0.1 %: 8.17dB
0.01 %: 9.02dB



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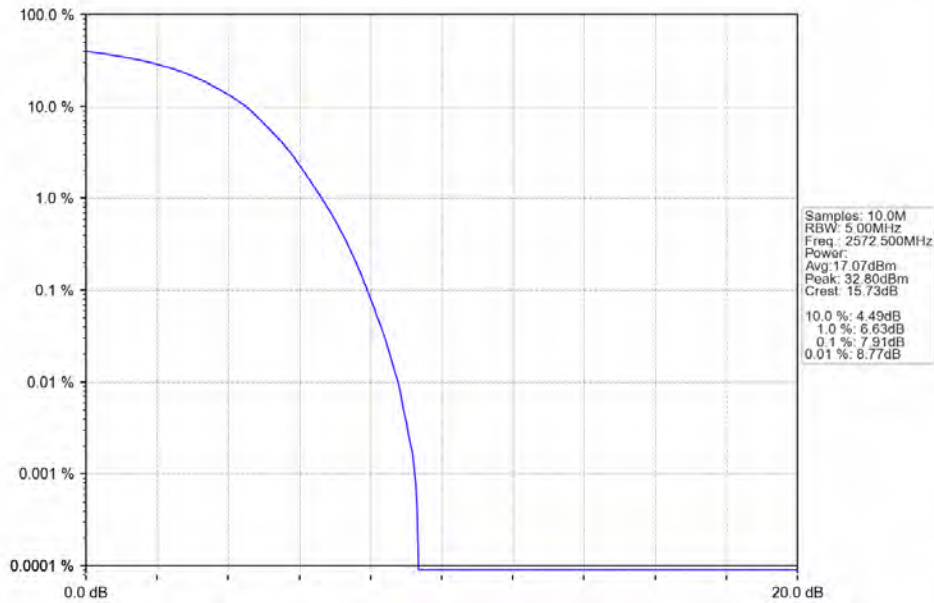
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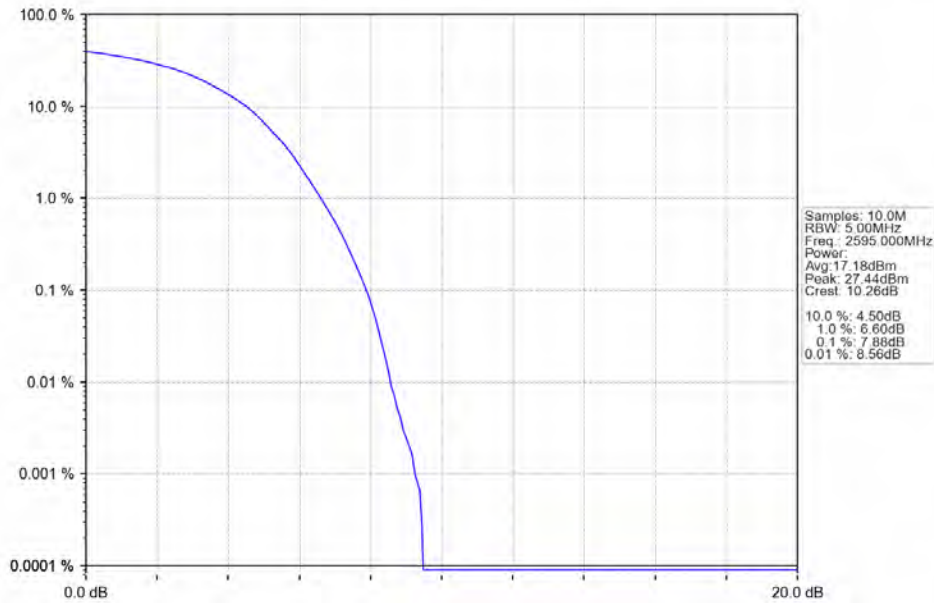
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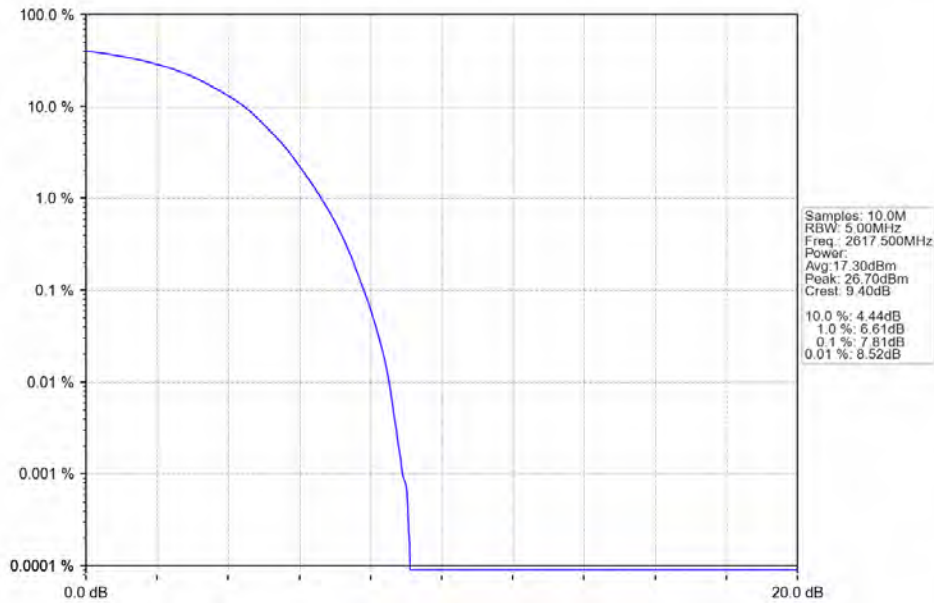
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4.2 B38_10MHz

4.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	50	0	7.22	<=13	Pass
	2595	50	0	7.16	<=13	Pass
	2615	50	0	7.16	<=13	Pass
16QAM	2575	50	0	8.31	<=13	Pass
	2595	50	0	8.21	<=13	Pass
	2615	50	0	8.17	<=13	Pass
64QAM	2575	50	0	7.83	<=13	Pass
	2595	50	0	7.81	<=13	Pass
	2615	50	0	7.88	<=13	Pass



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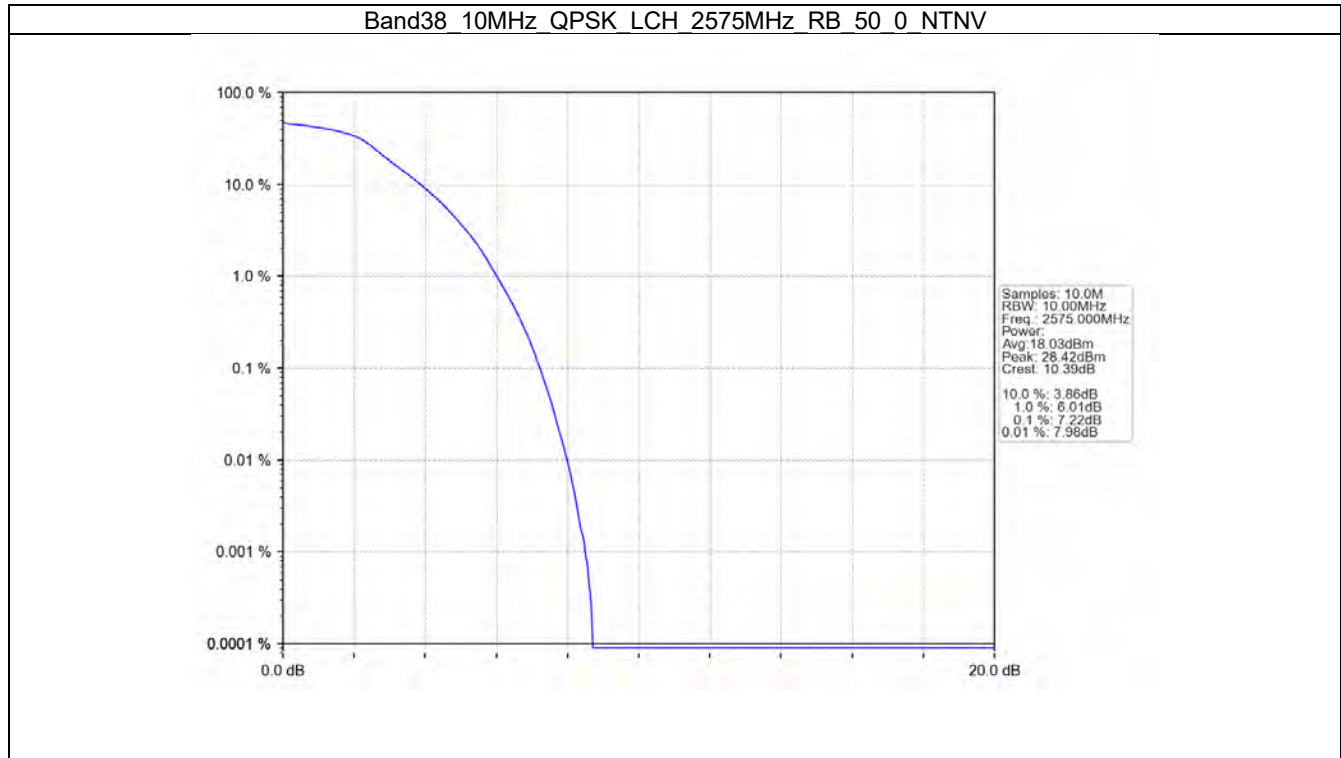
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4.2.2 Test Graph



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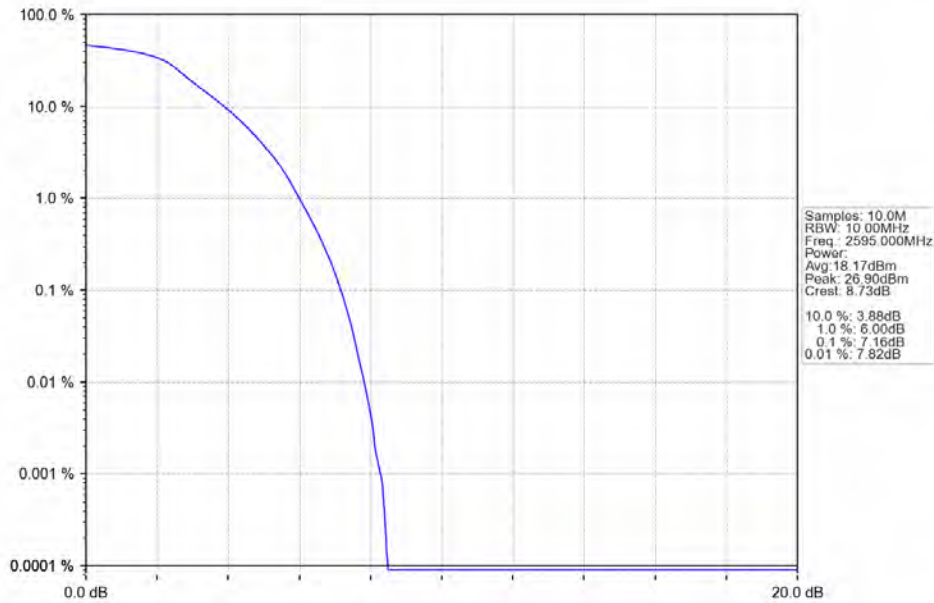
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Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



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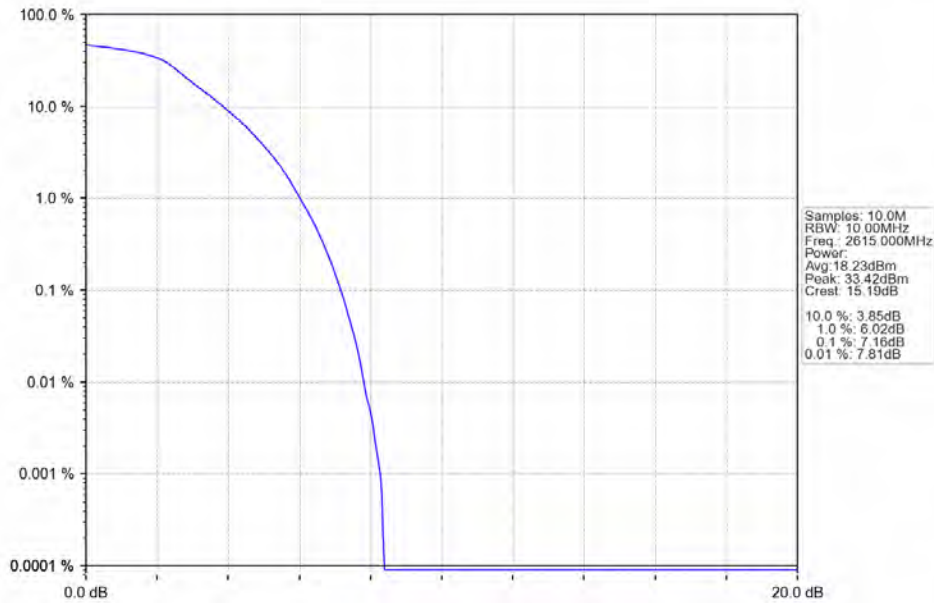
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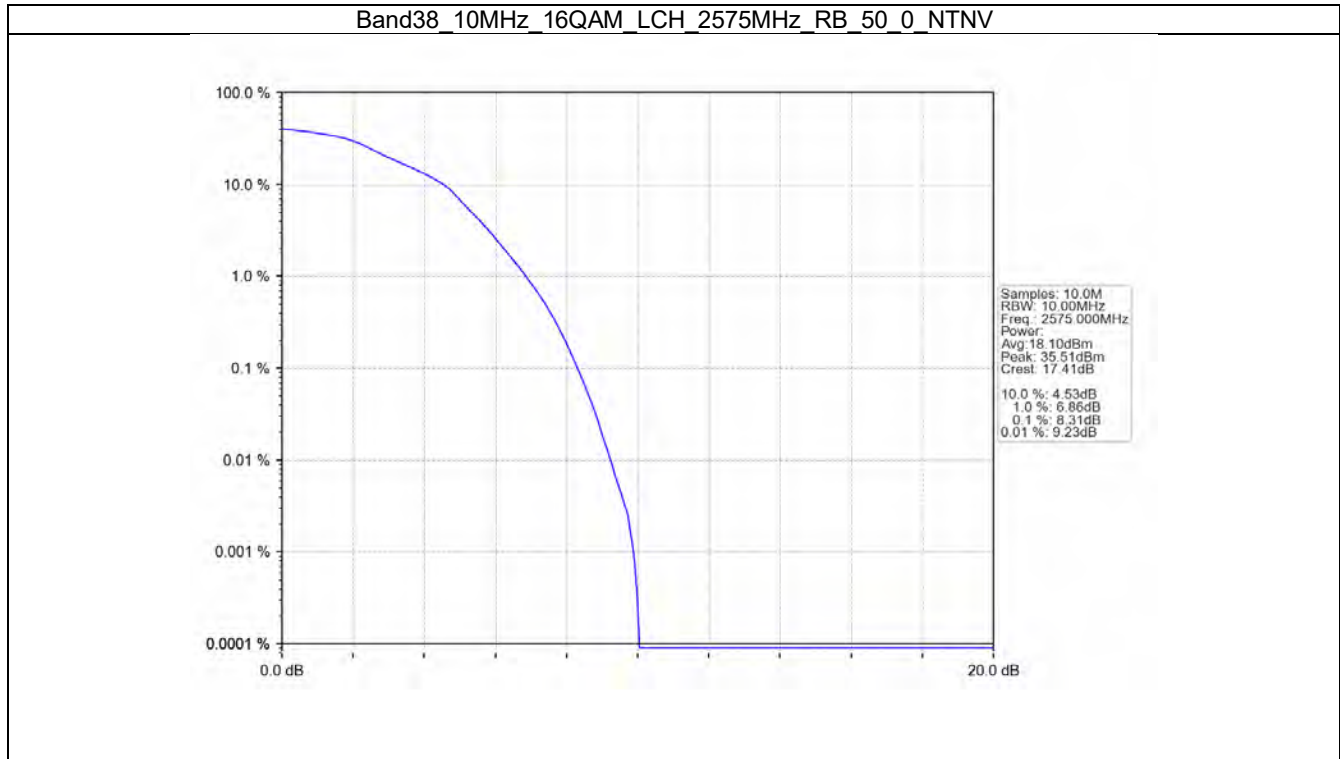


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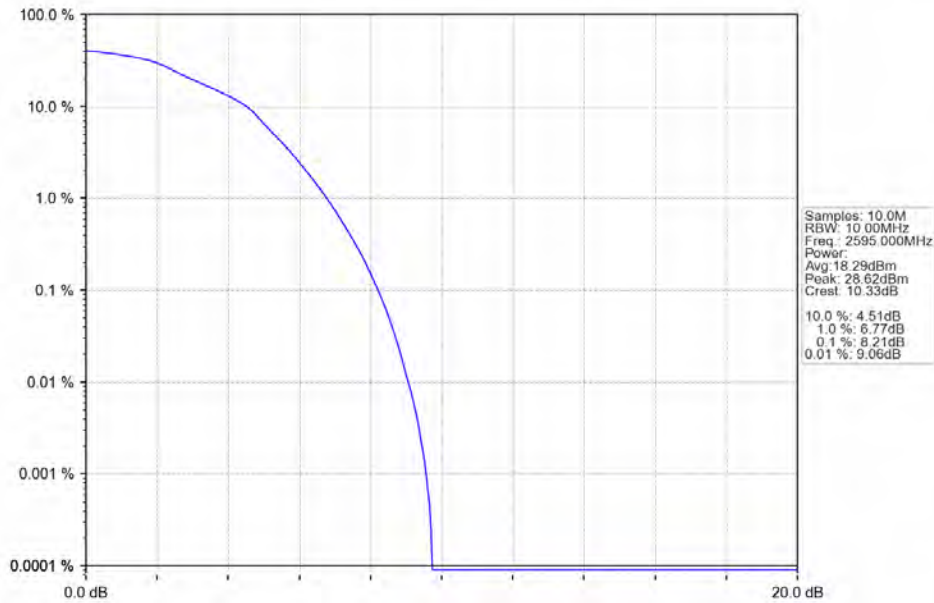
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Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



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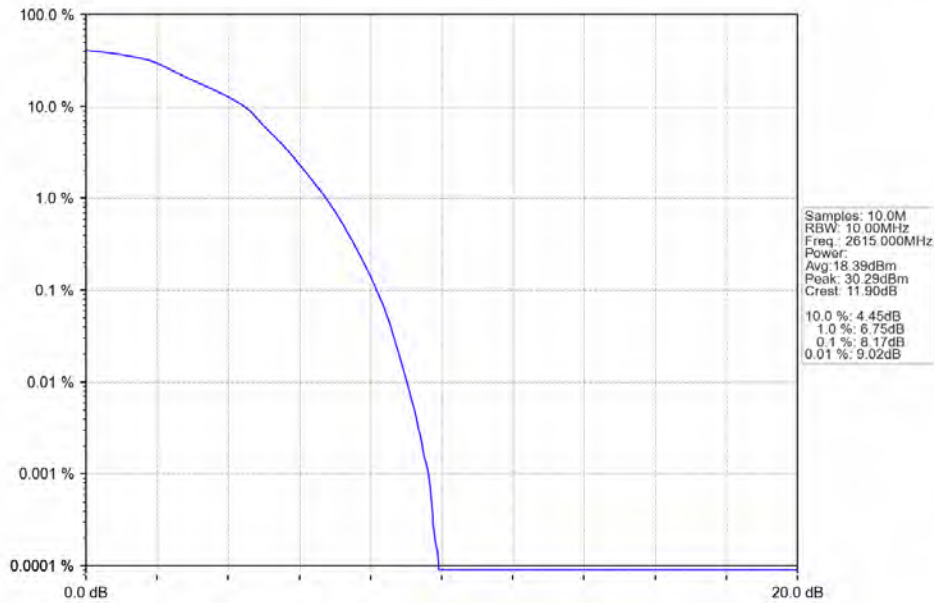
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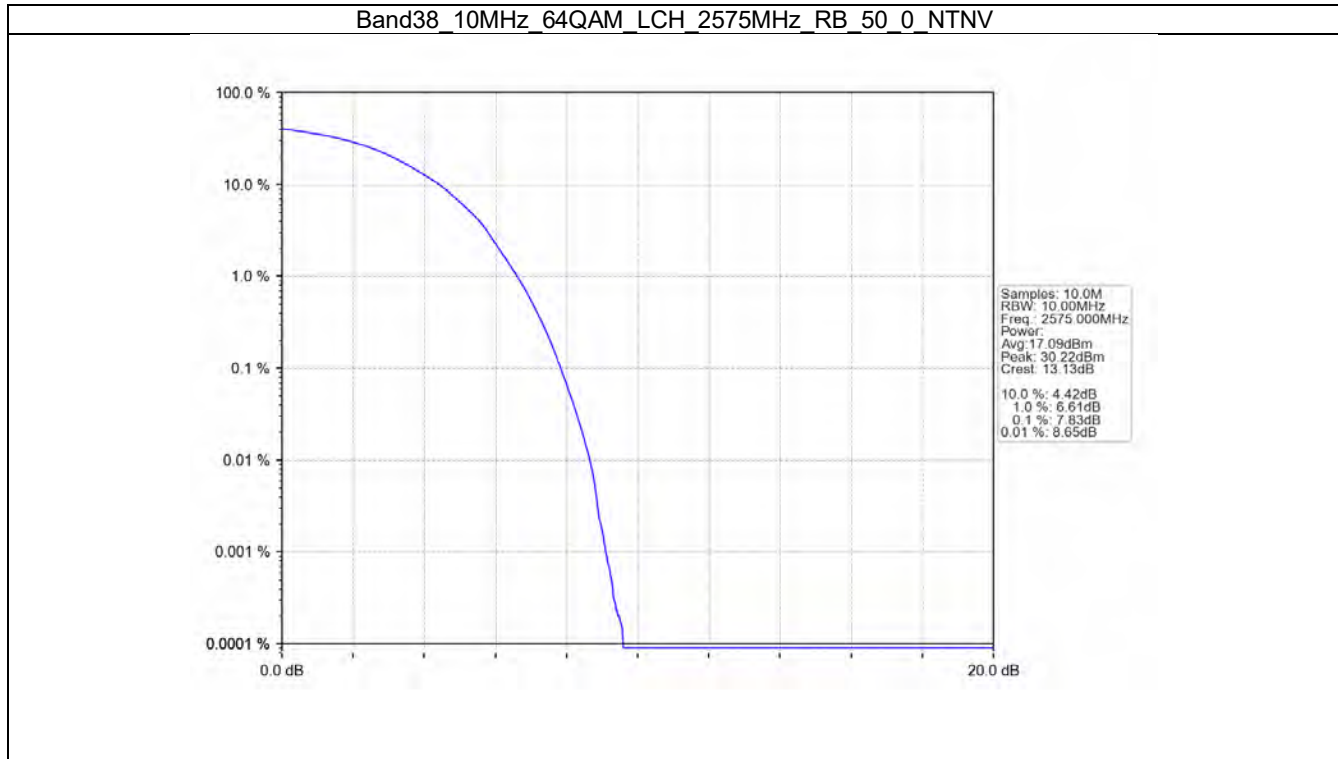


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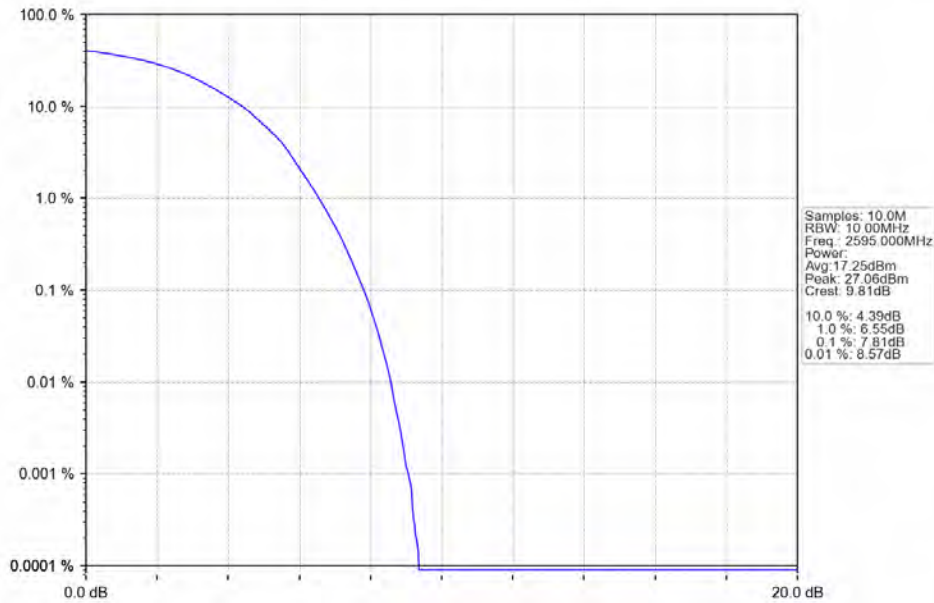
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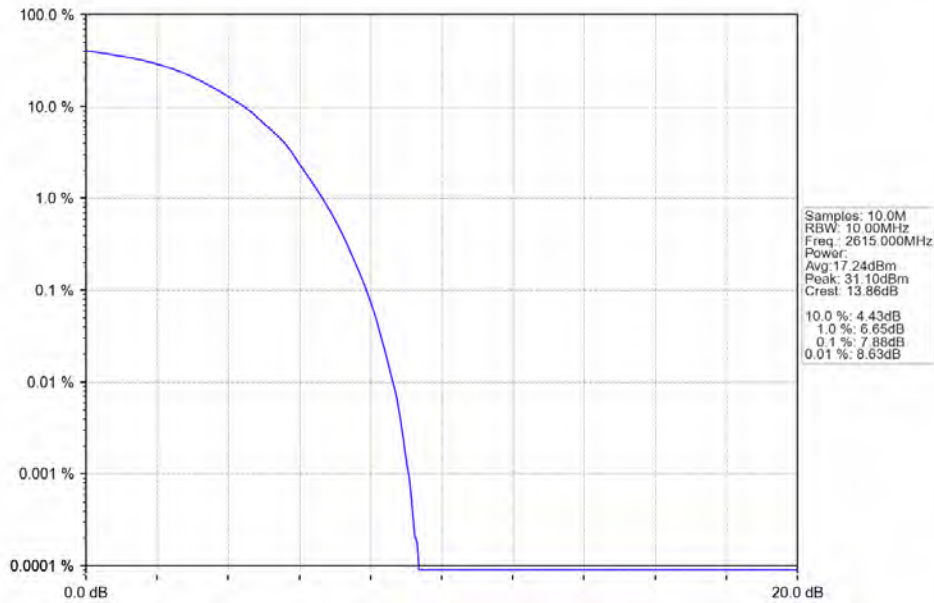
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4.3 B38_15MHz

4.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	75	0	7.41	<=13	Pass
	2595	75	0	7.38	<=13	Pass
	2612.5	75	0	7.44	<=13	Pass
16QAM	2577.5	75	0	8.57	<=13	Pass
	2595	75	0	8.08	<=13	Pass
	2612.5	75	0	8.44	<=13	Pass
64QAM	2577.5	75	0	7.88	<=13	Pass
	2595	75	0	7.91	<=13	Pass
	2612.5	75	0	7.83	<=13	Pass



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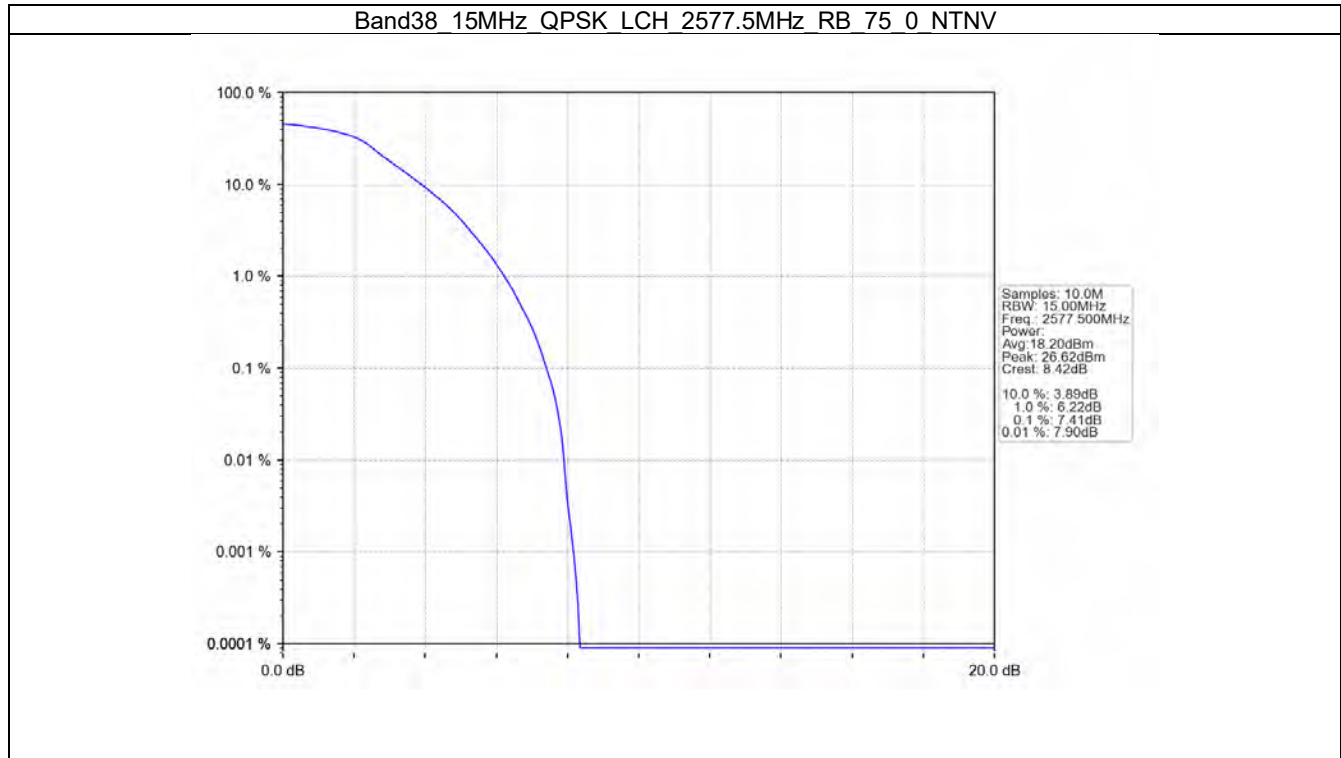
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4.3.2 Test Graph



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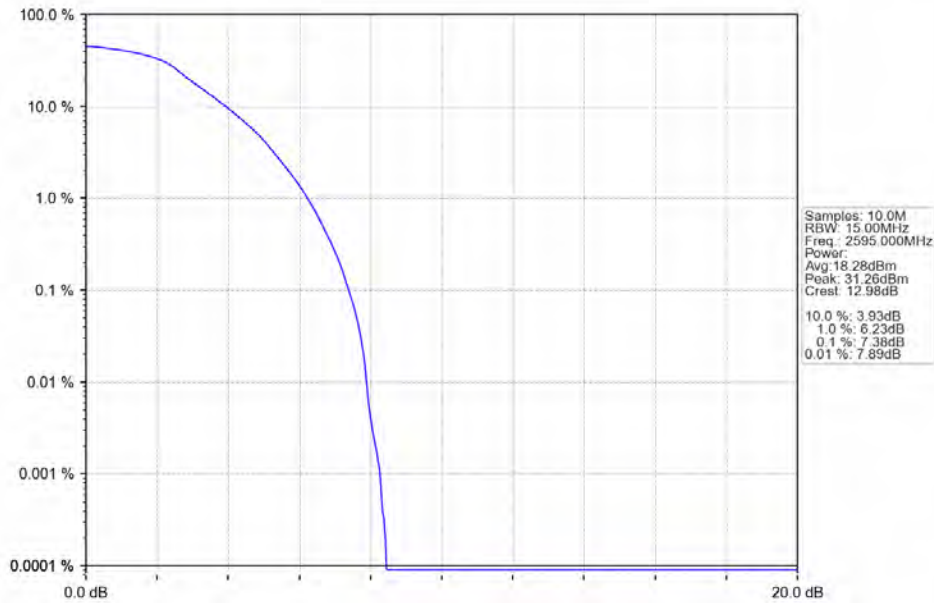
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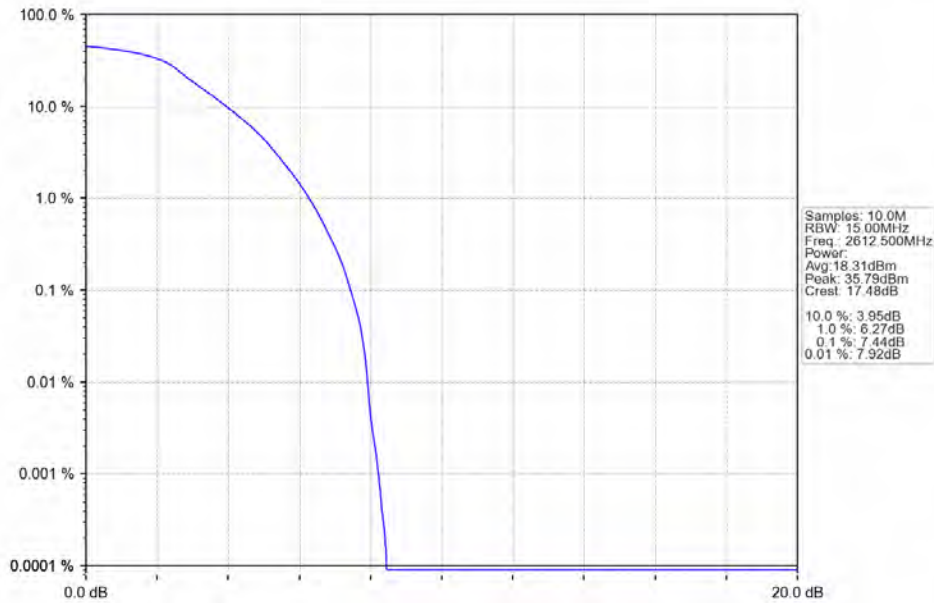
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Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



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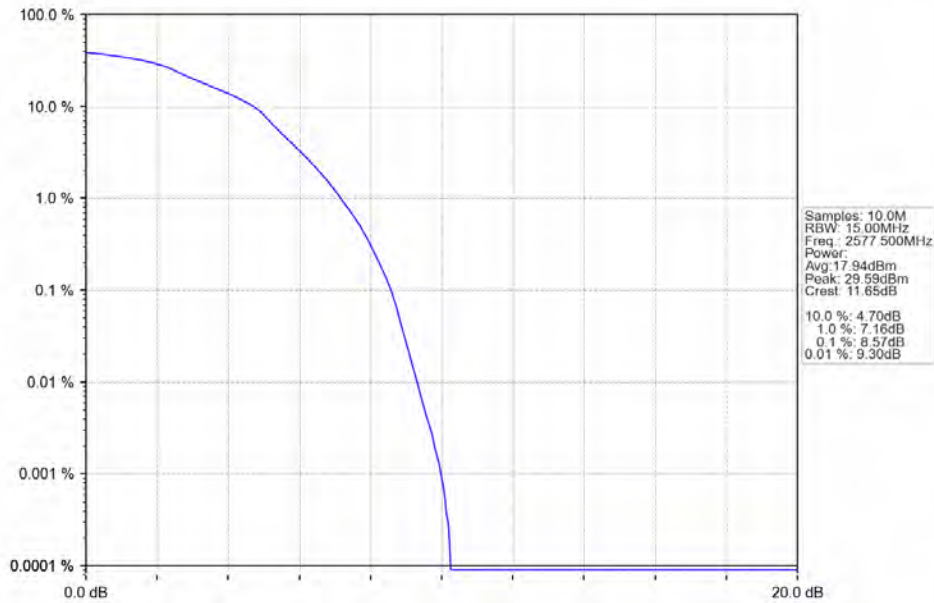
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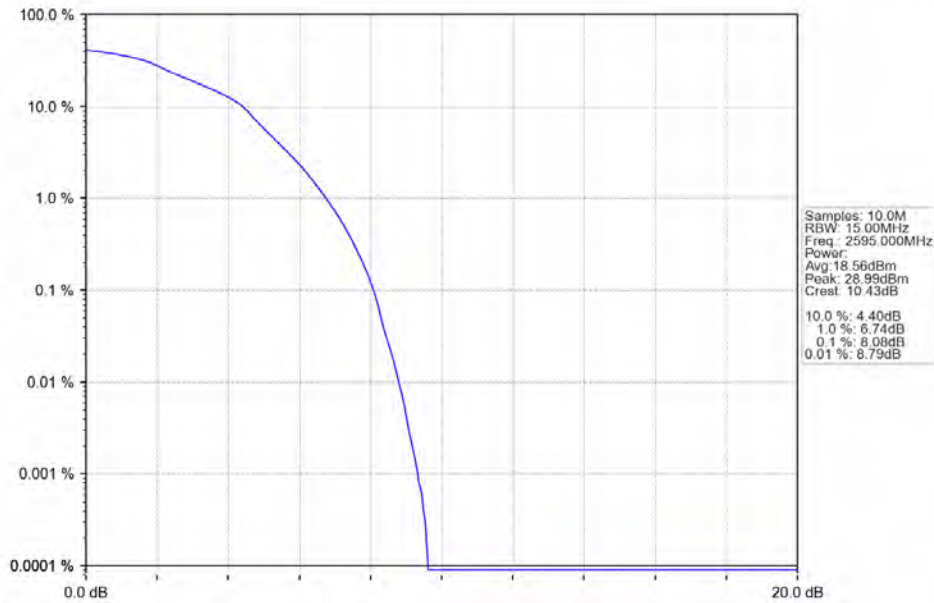
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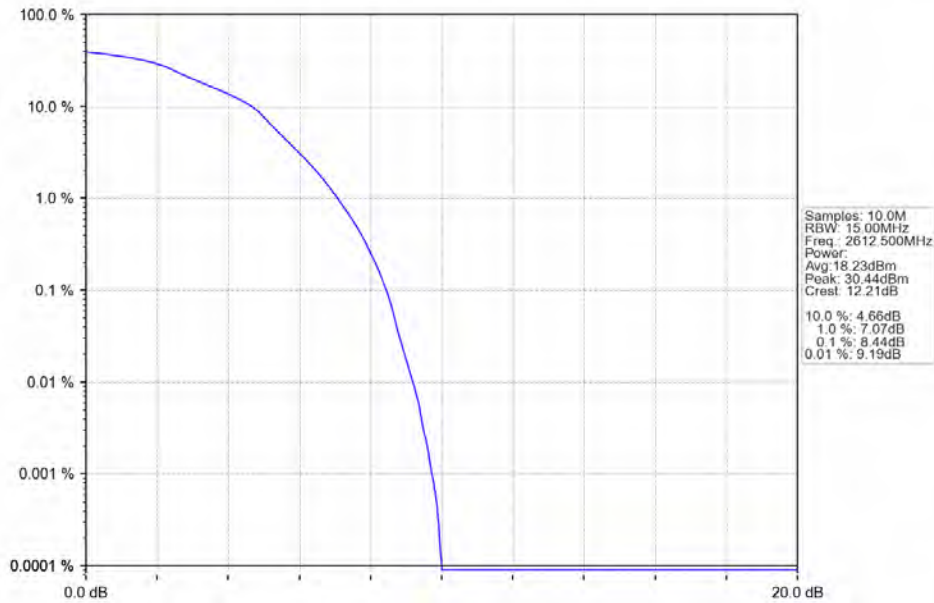
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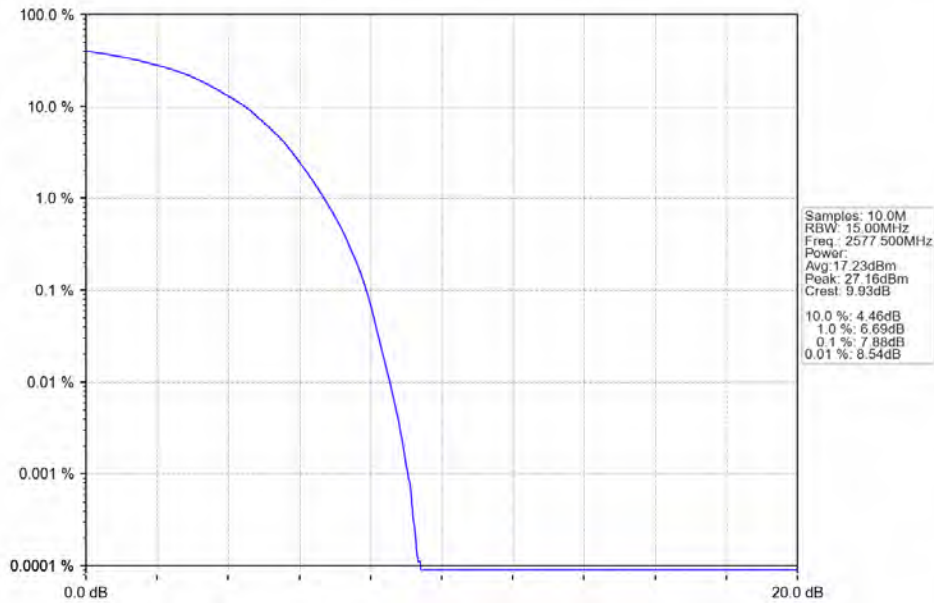
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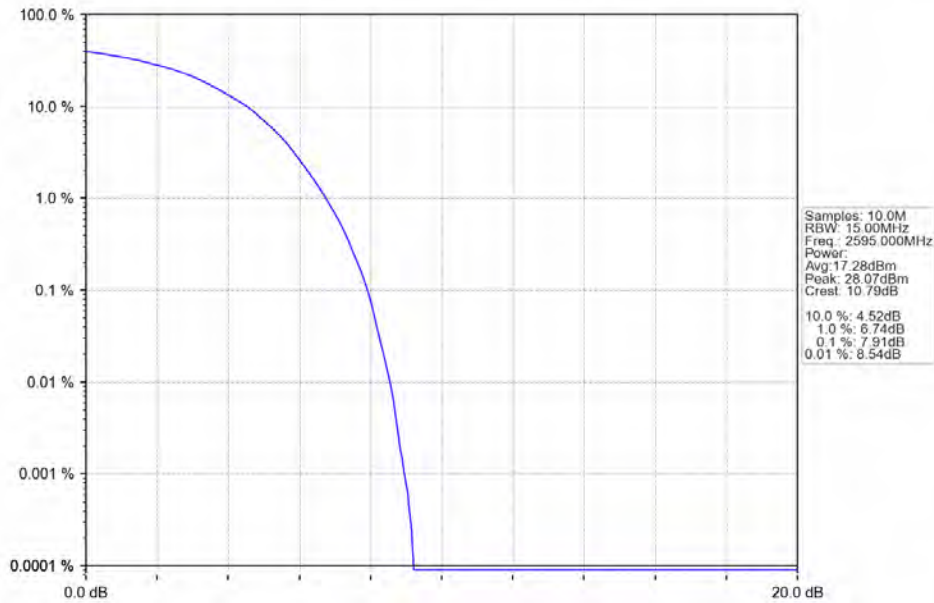
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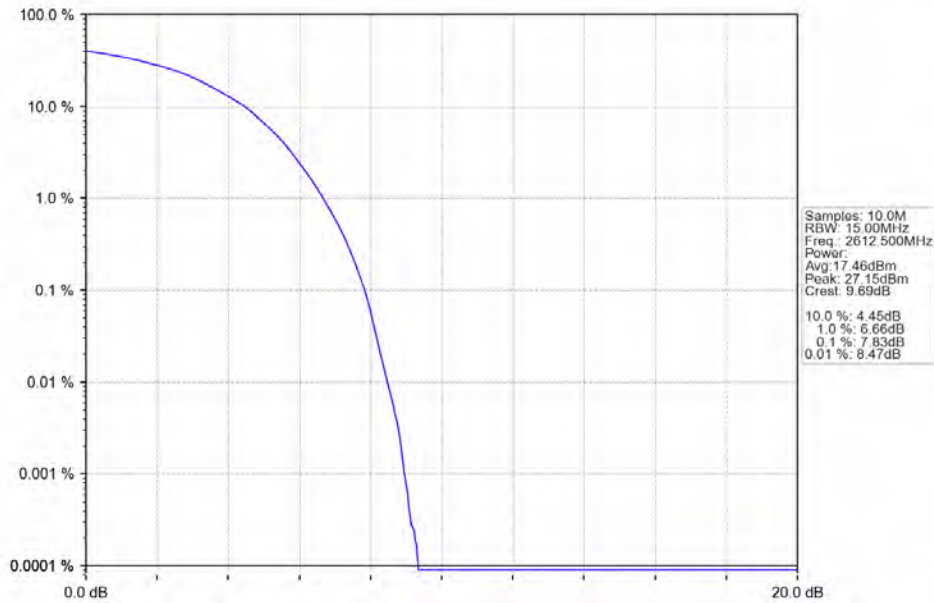
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4.4 B38_20MHz

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	6.85	<=13	Pass
	2595	100	0	7.04	<=13	Pass
	2610	100	0	7.05	<=13	Pass
16QAM	2580	100	0	8.25	<=13	Pass
	2595	100	0	8.25	<=13	Pass
	2610	100	0	8.18	<=13	Pass
64QAM	2580	100	0	8.06	<=13	Pass
	2595	100	0	7.80	<=13	Pass
	2610	100	0	7.75	<=13	Pass



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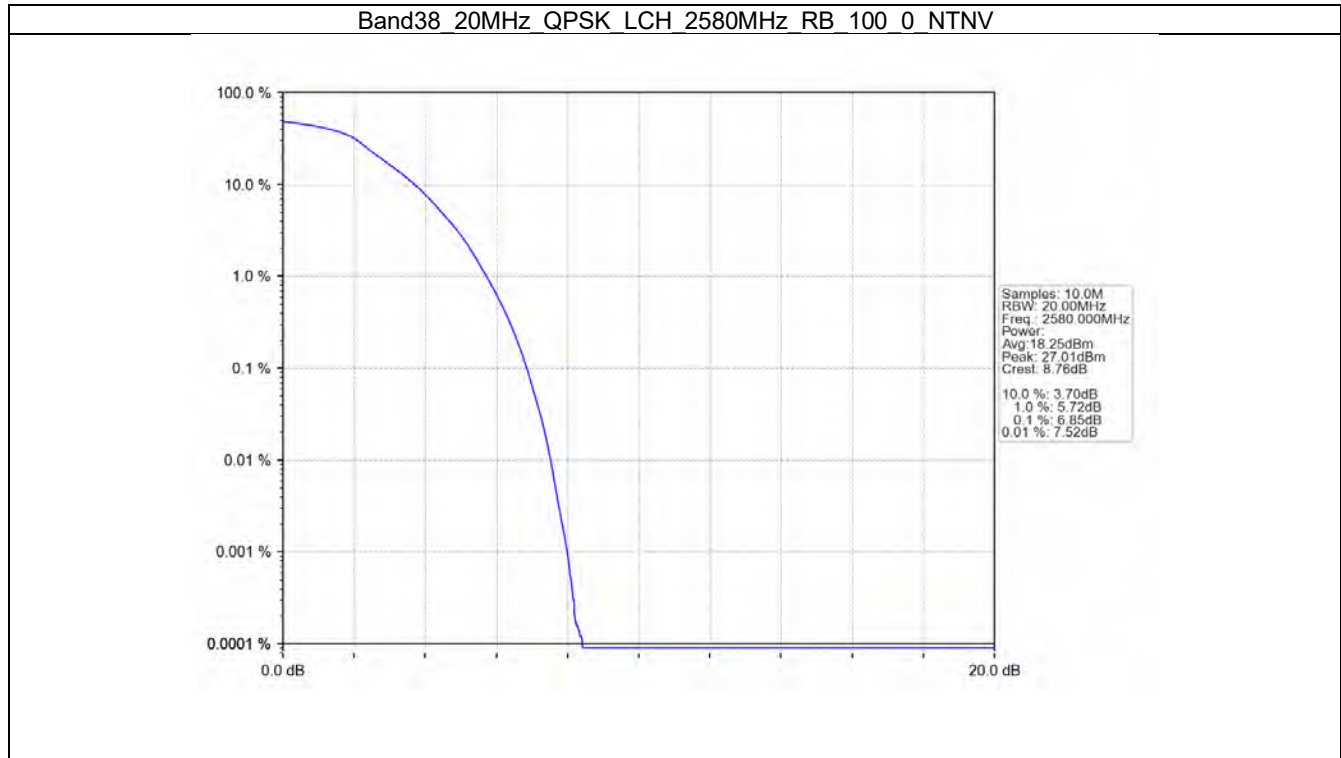
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4.4.2 Test Graph



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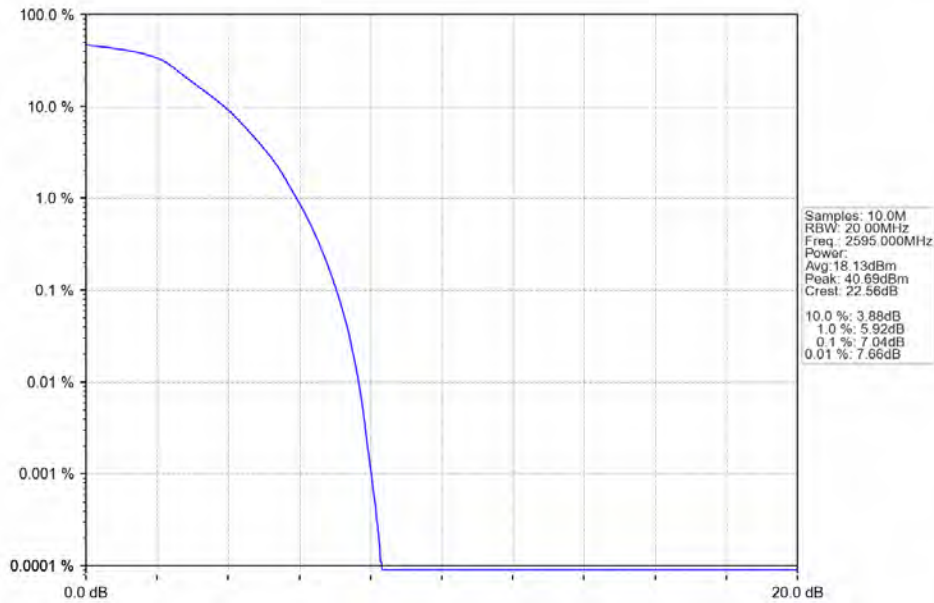
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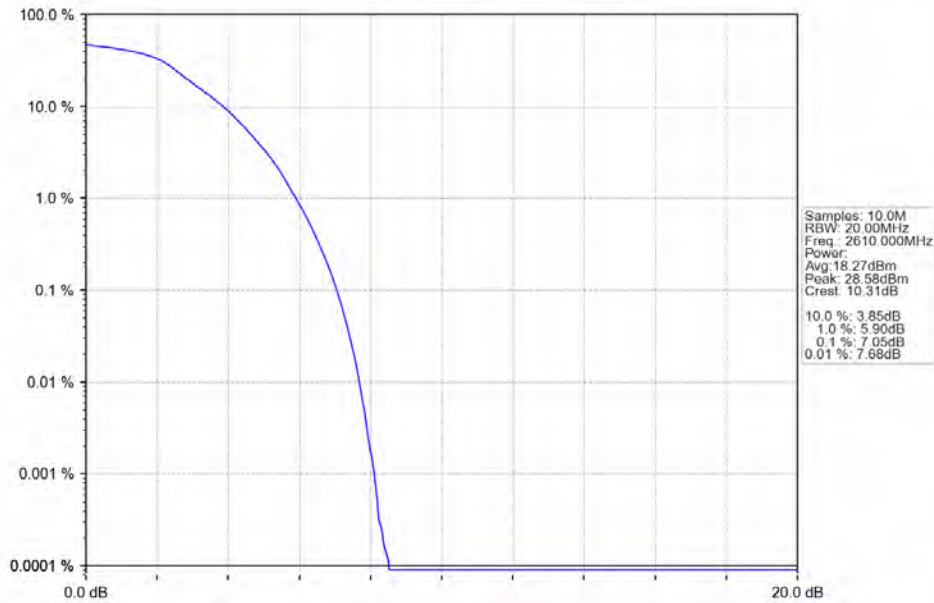
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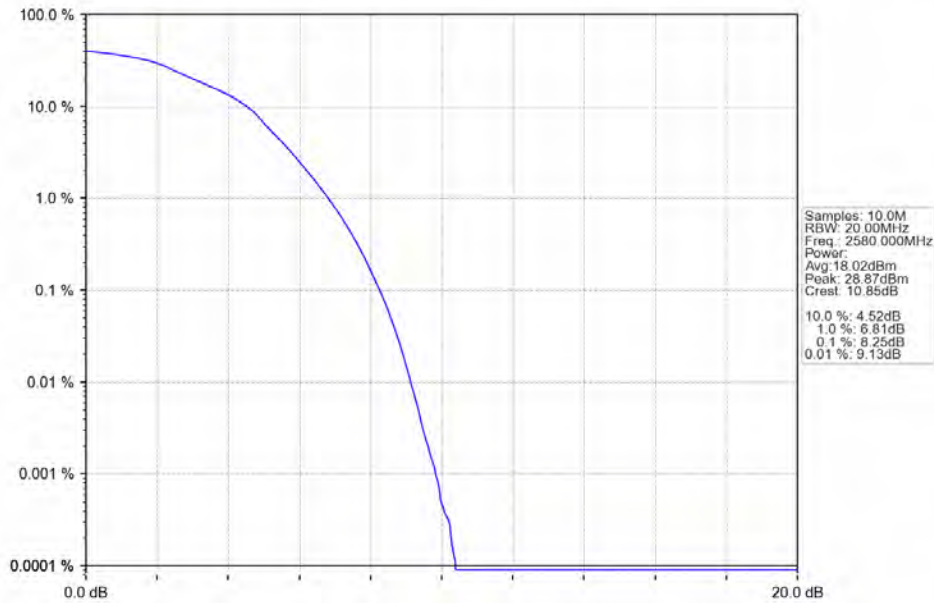
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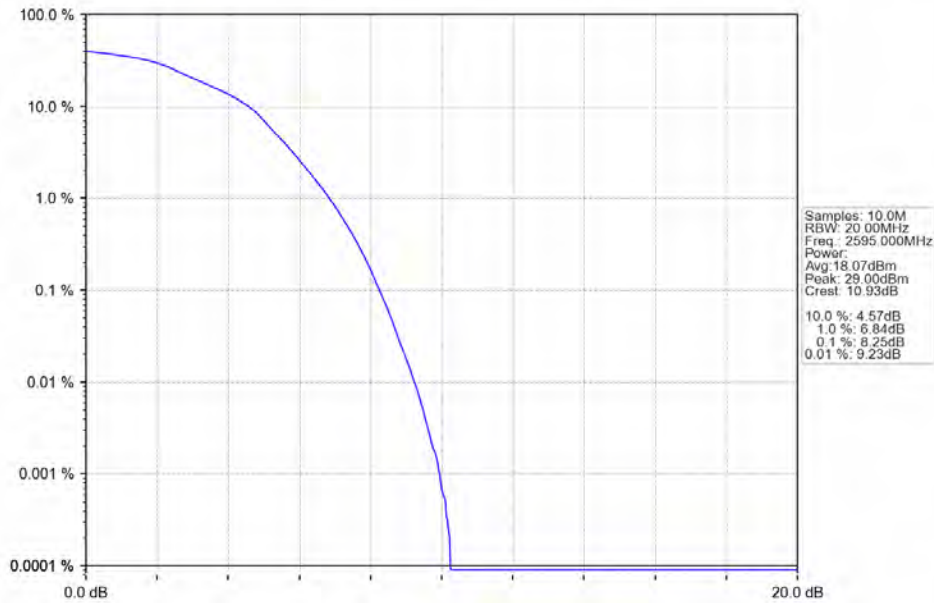
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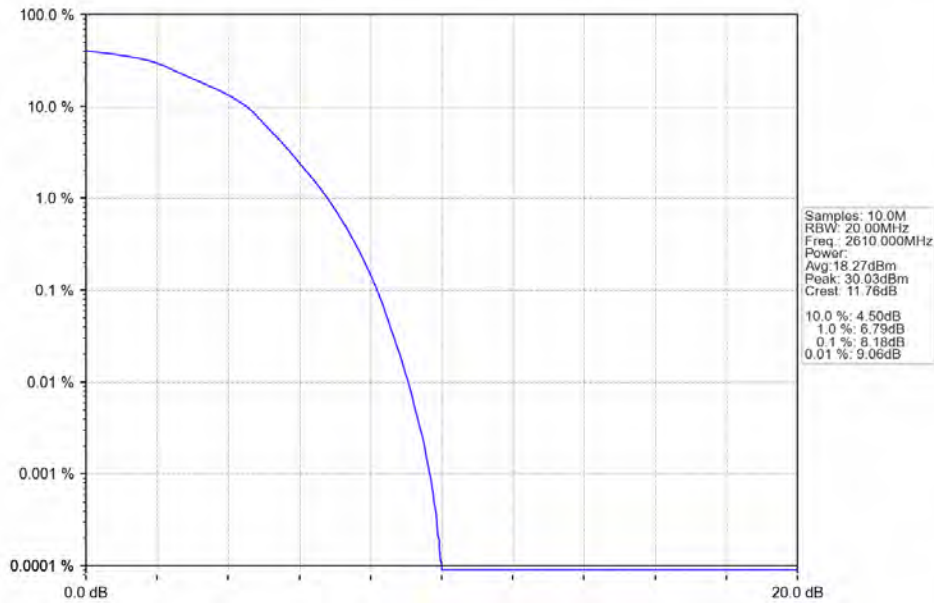
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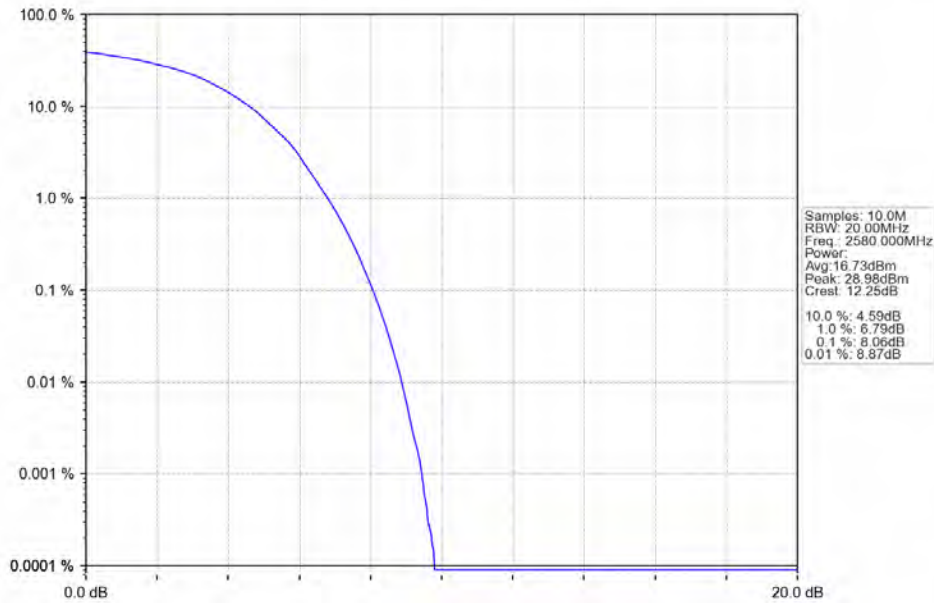
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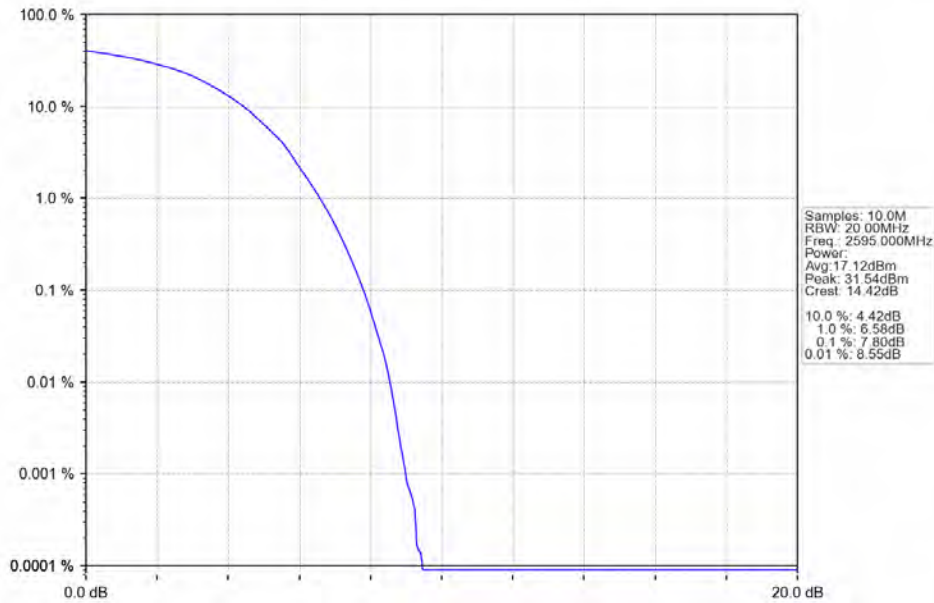
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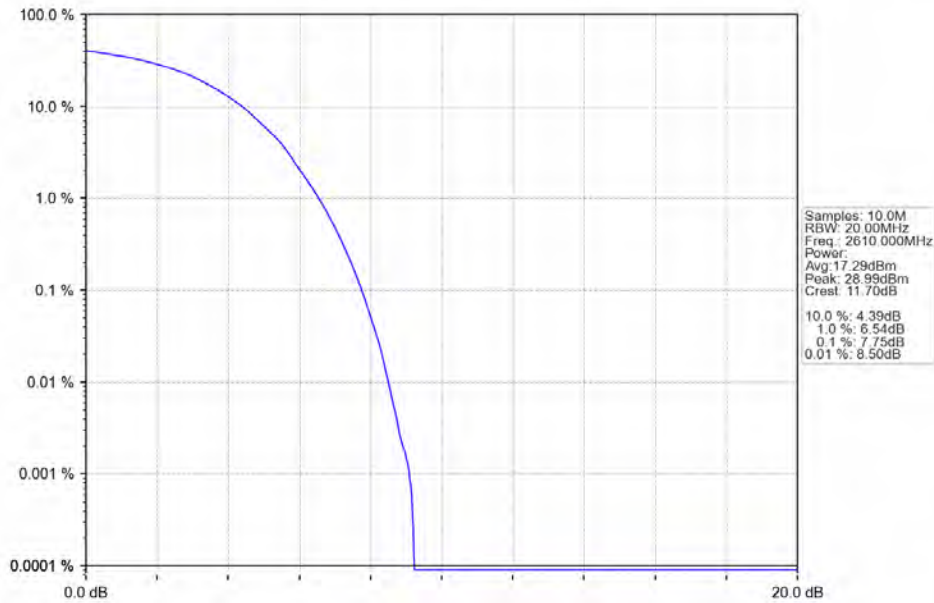
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5. Spurious Emission & Band Edges

5.1 B38_5MHz

5.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTNV						
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		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
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		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
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		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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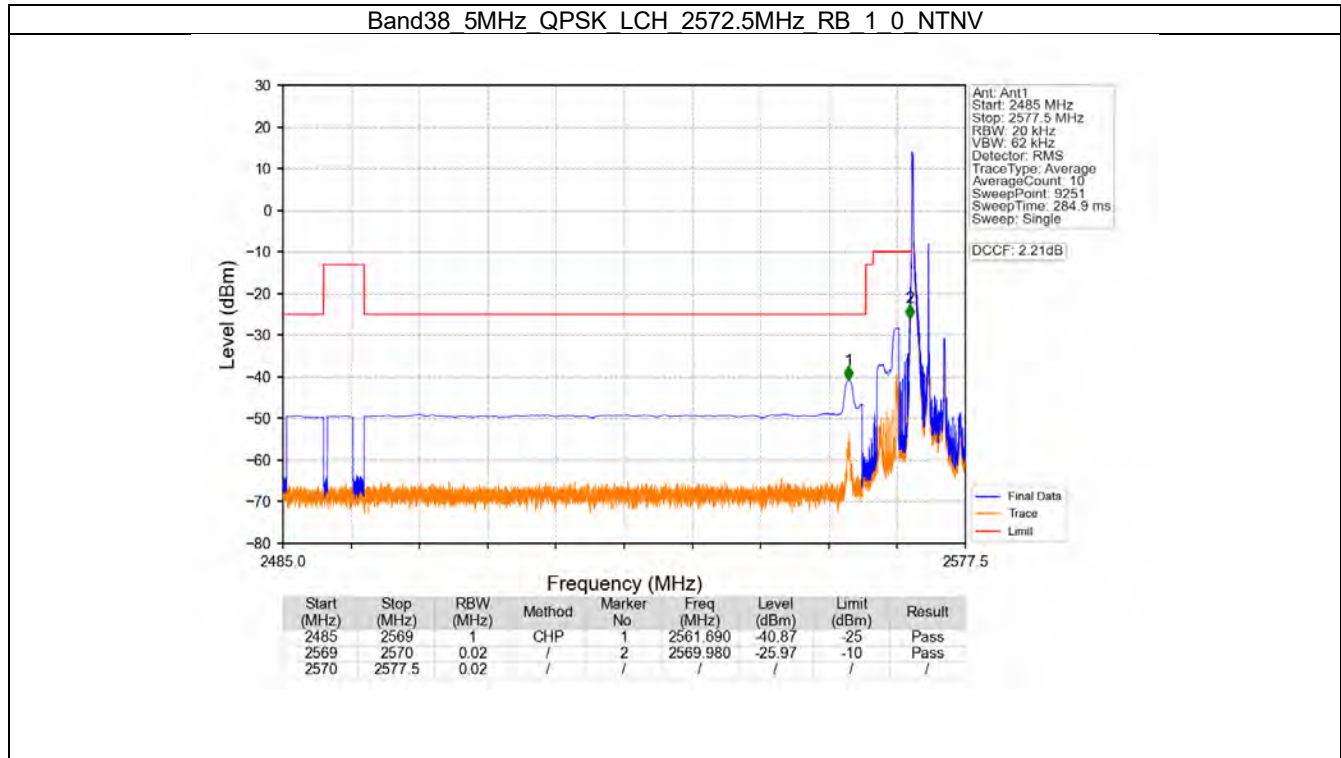
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5.1.2 Test Graph



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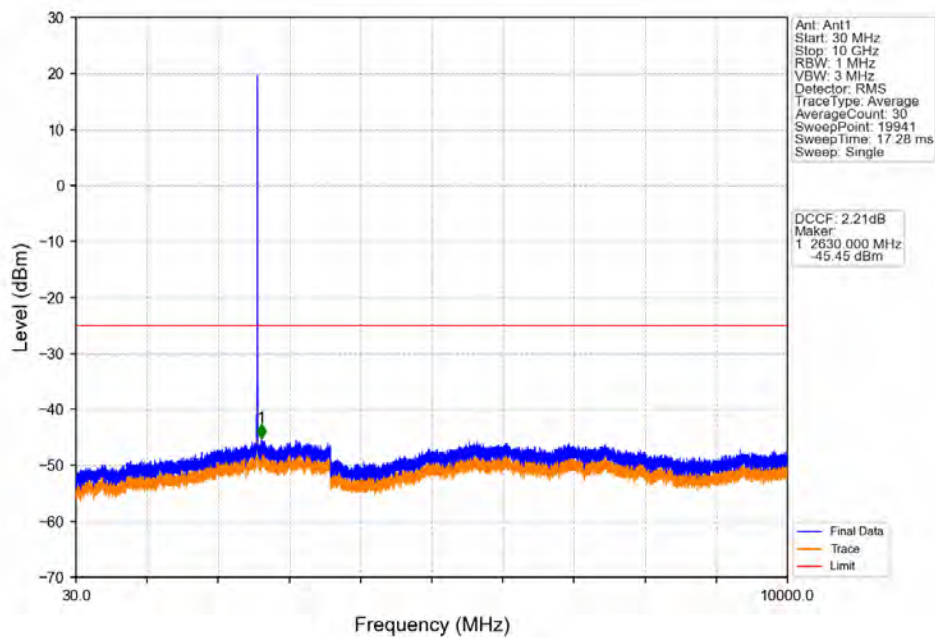
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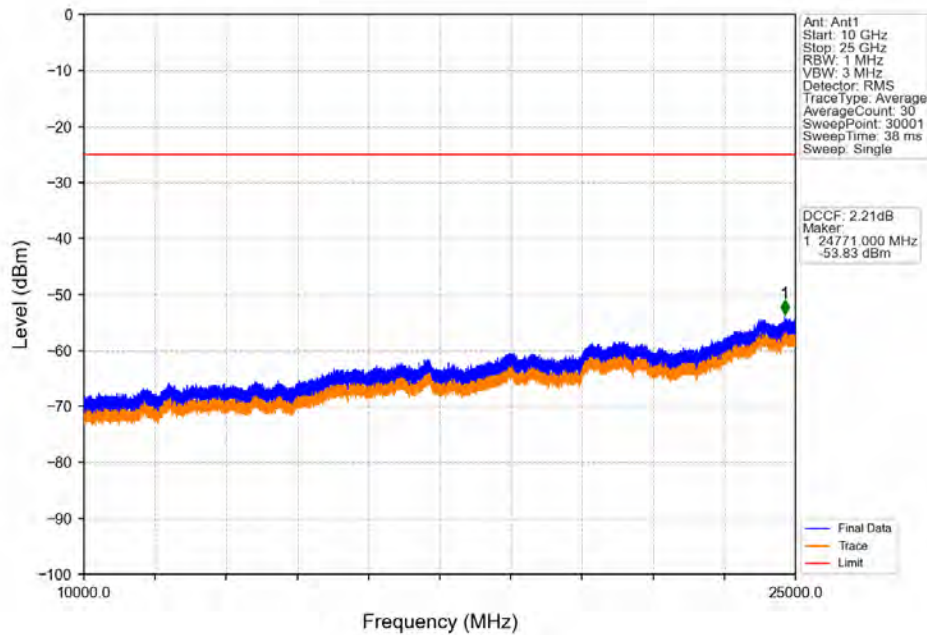
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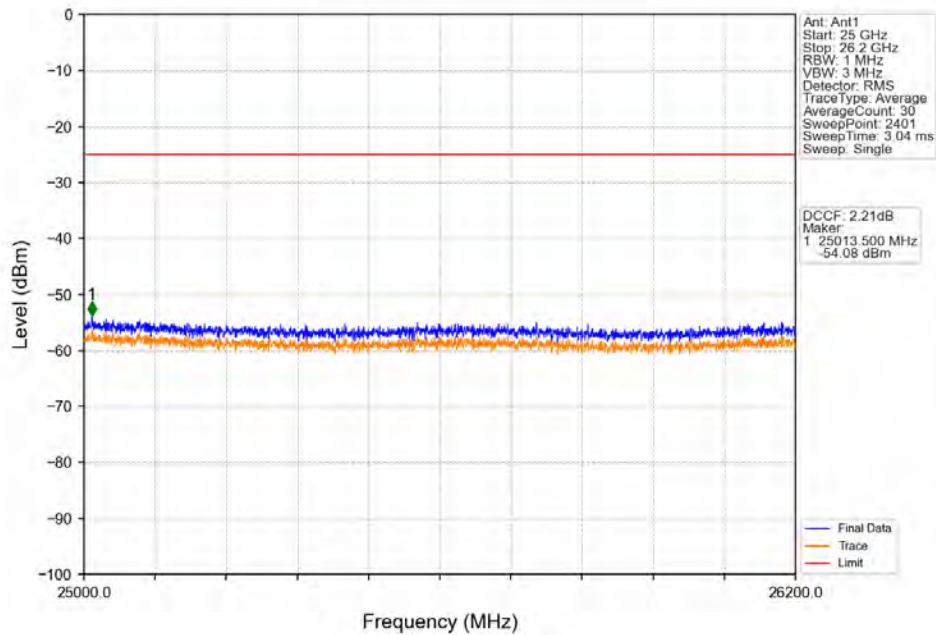
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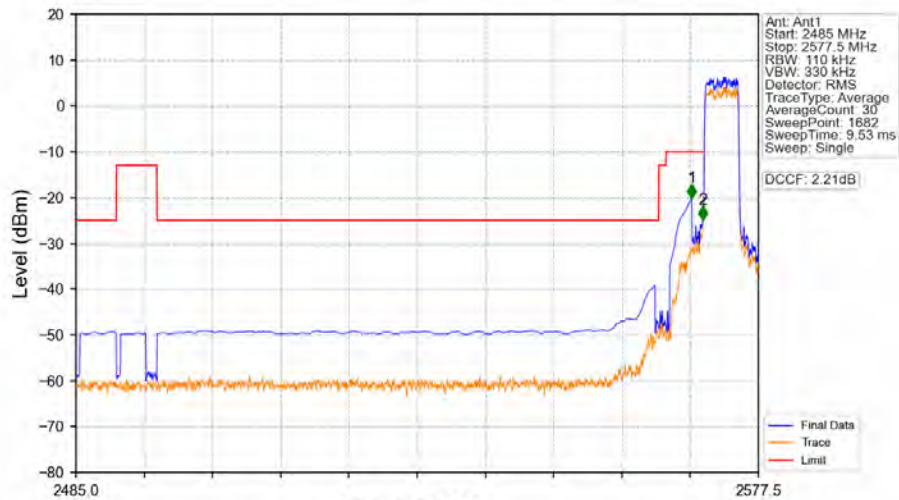
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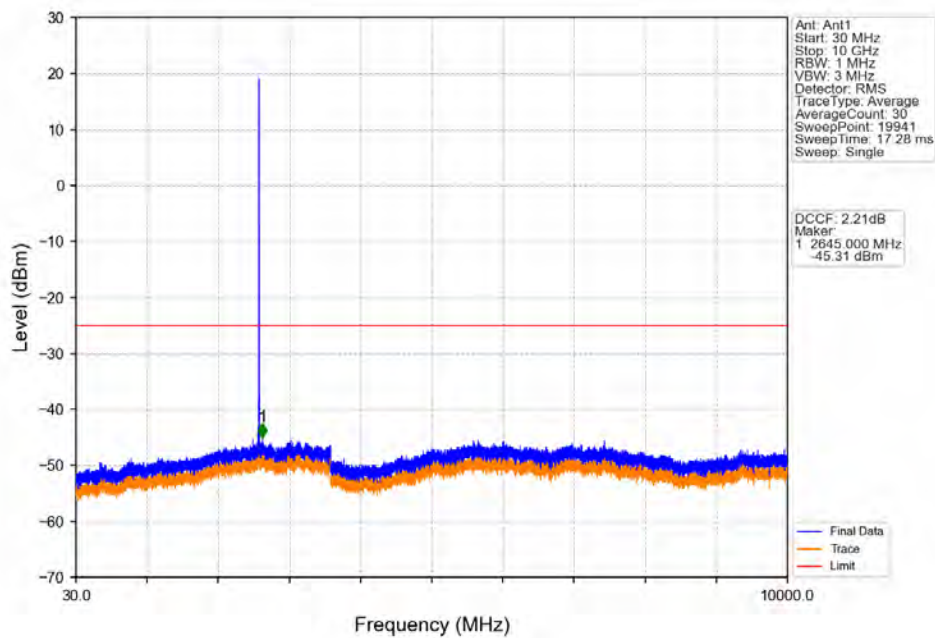
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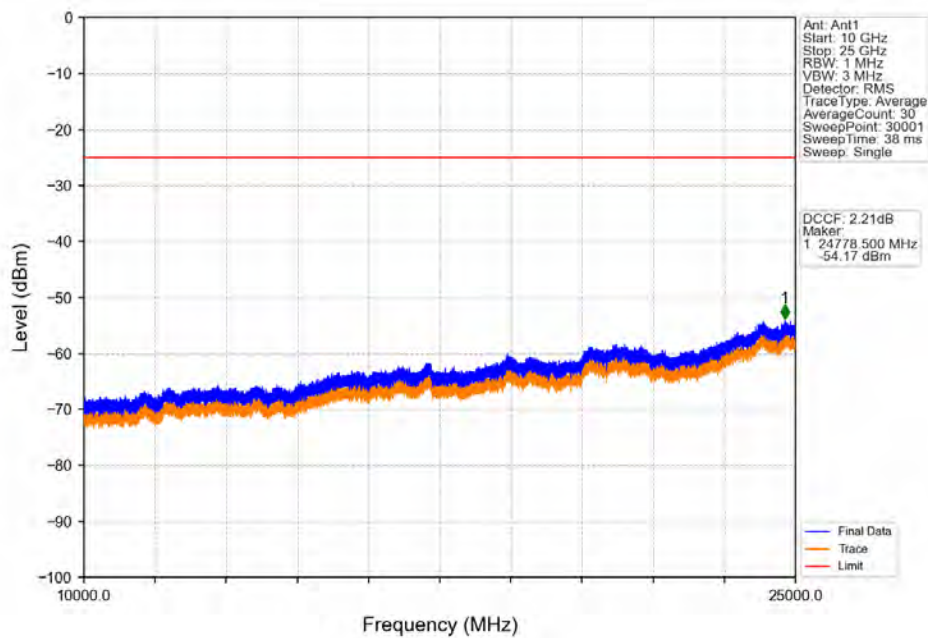
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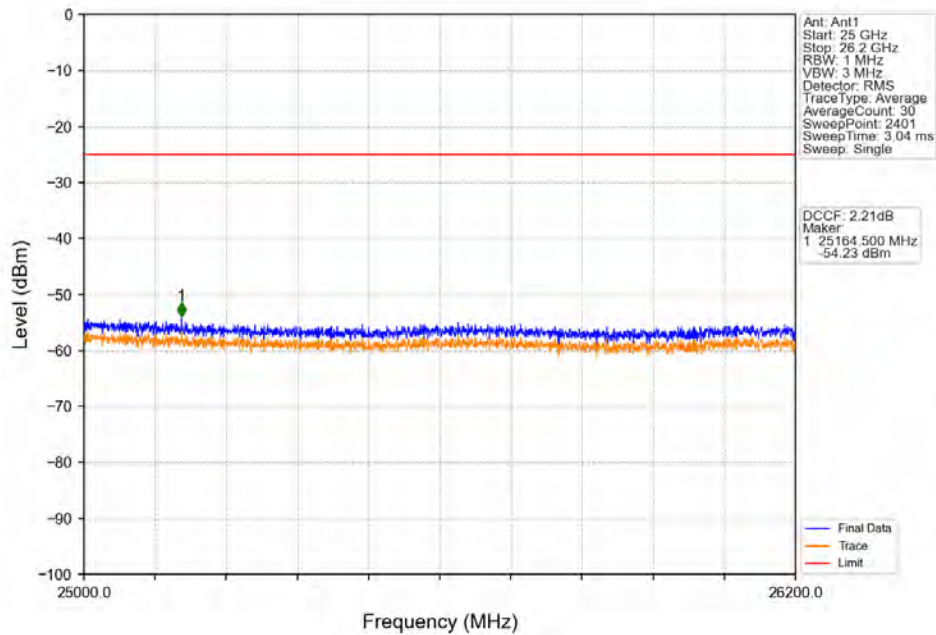
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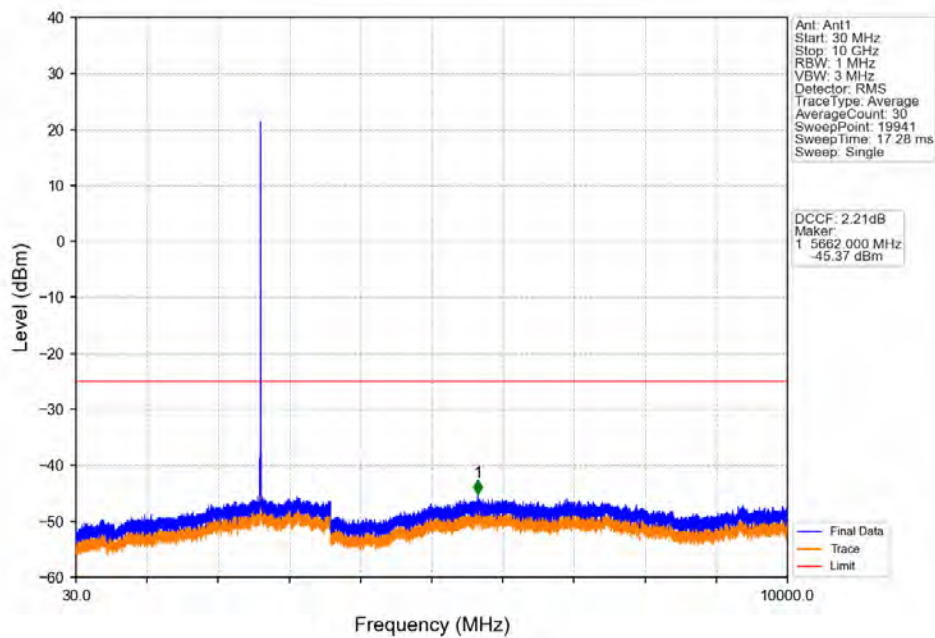
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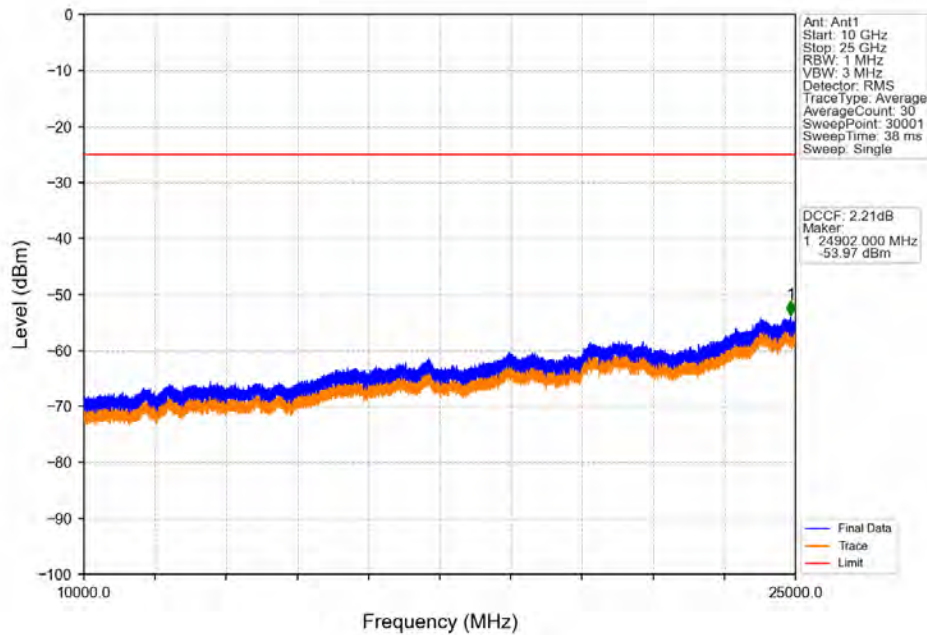
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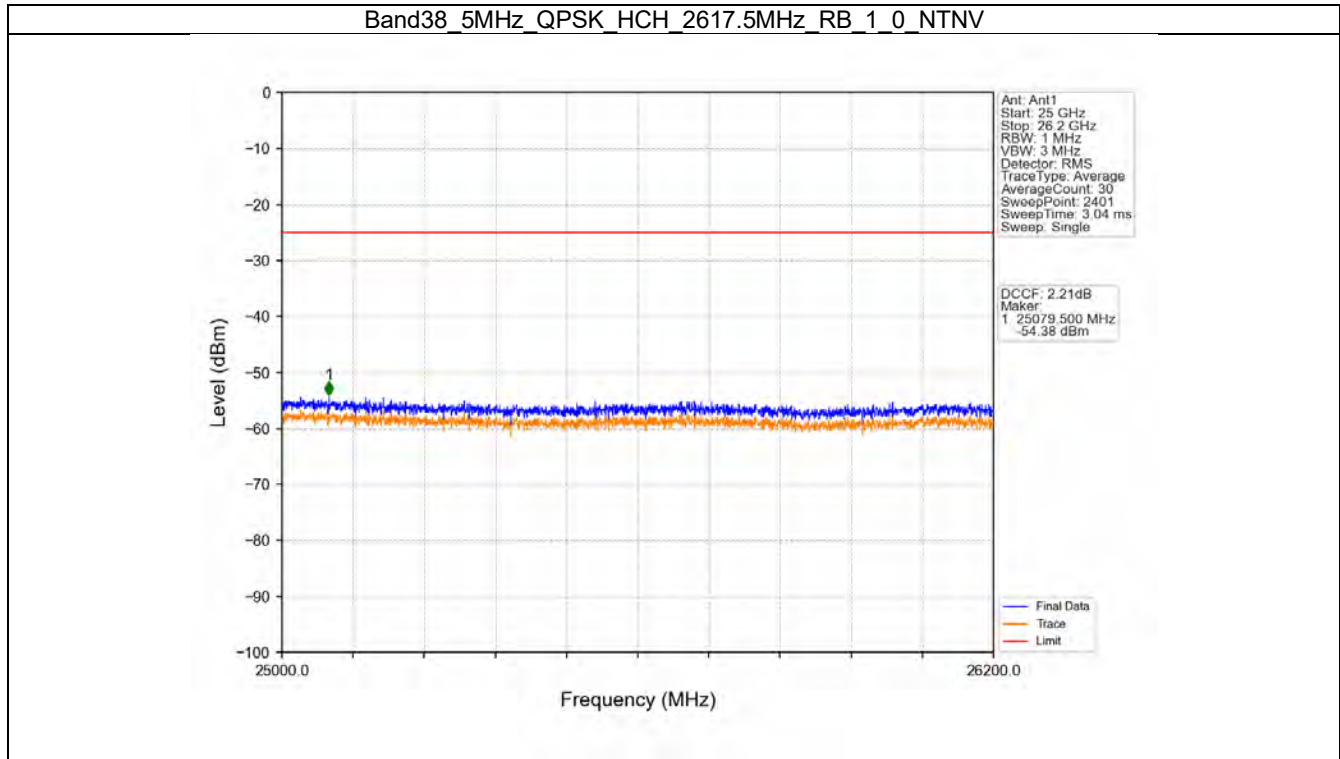


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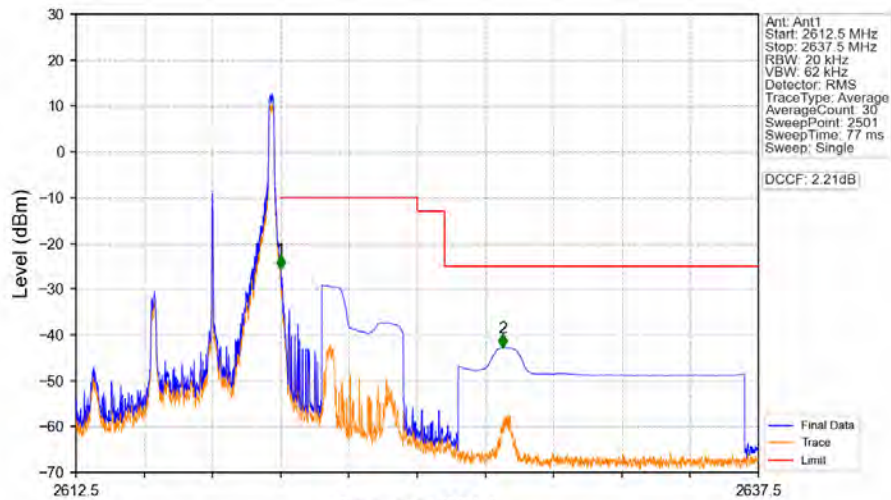
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Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.02	/	1	2620.000	-25.74	-10	Pass
2620	2621	0.02	/	2	2628.140	-42.83	-25	Pass



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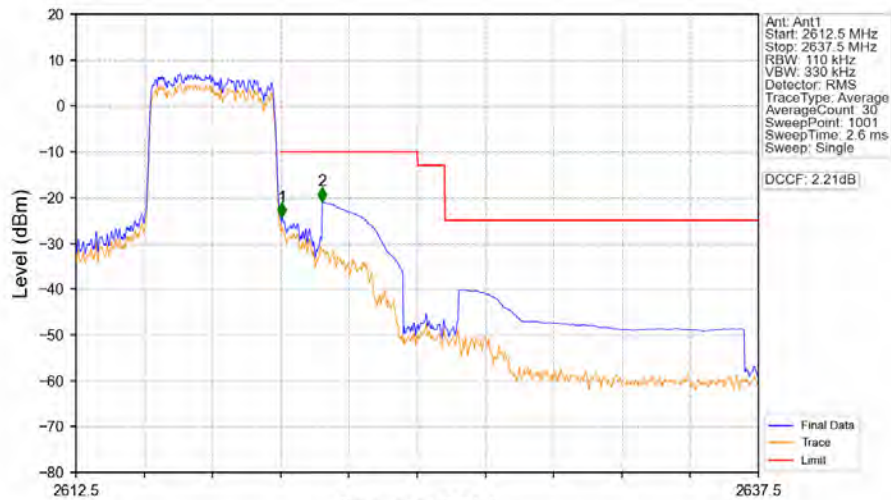
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Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.11	/	/	/	/	/	/
2620	2621	0.11	/	1	2620.050	-24.24	-10	Pass
2621	2637.5	1	CHP	2	2621.525	-20.83	-10	Pass



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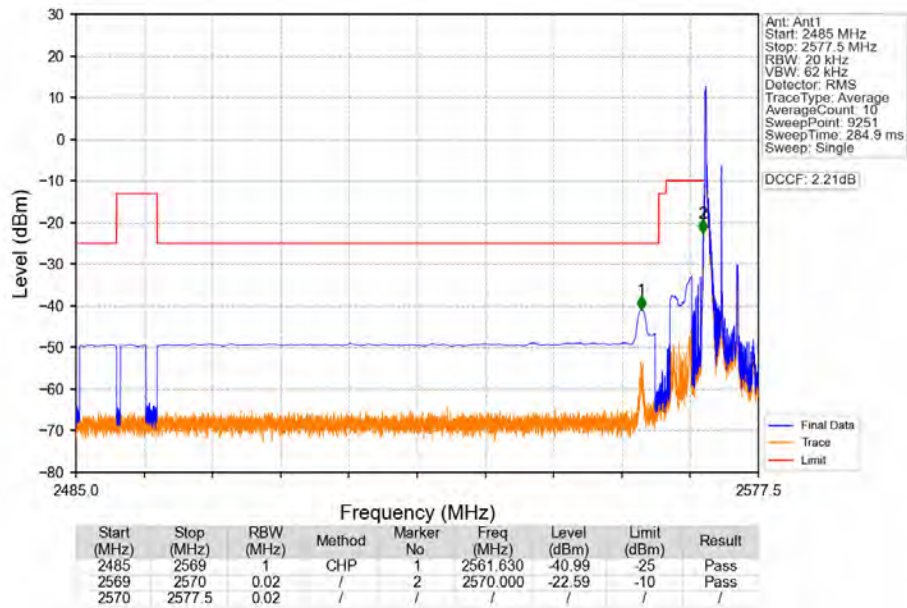
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Band38_5MHz_16QAM_LCH_2572.5MHz_RB_1_0_NTNV



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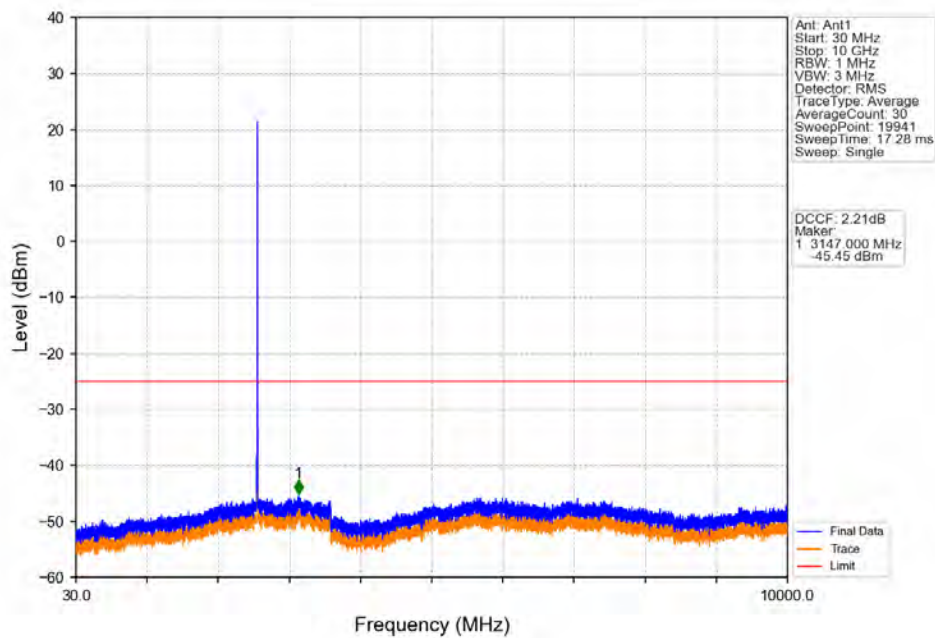
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Band38_5MHz_16QAM_LCH_2572.5MHz_RB_1_0_NTNV



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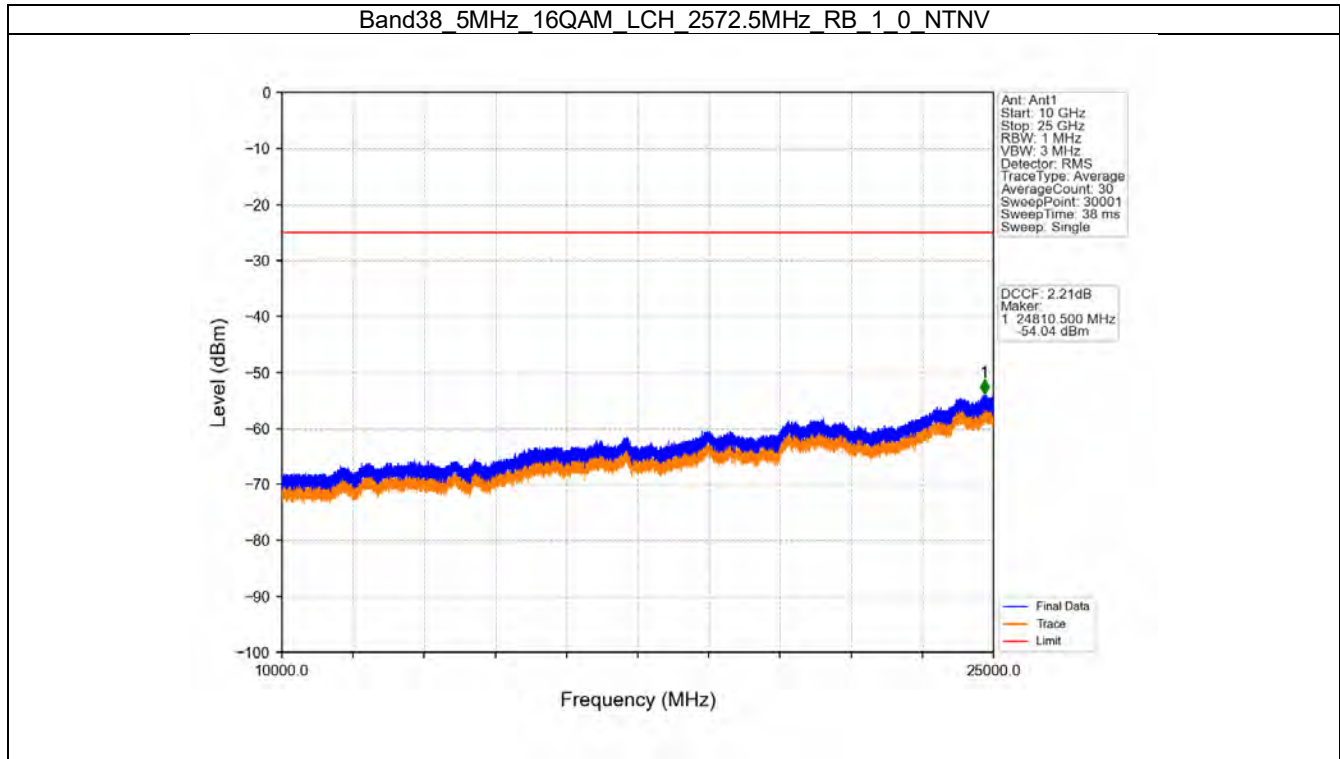


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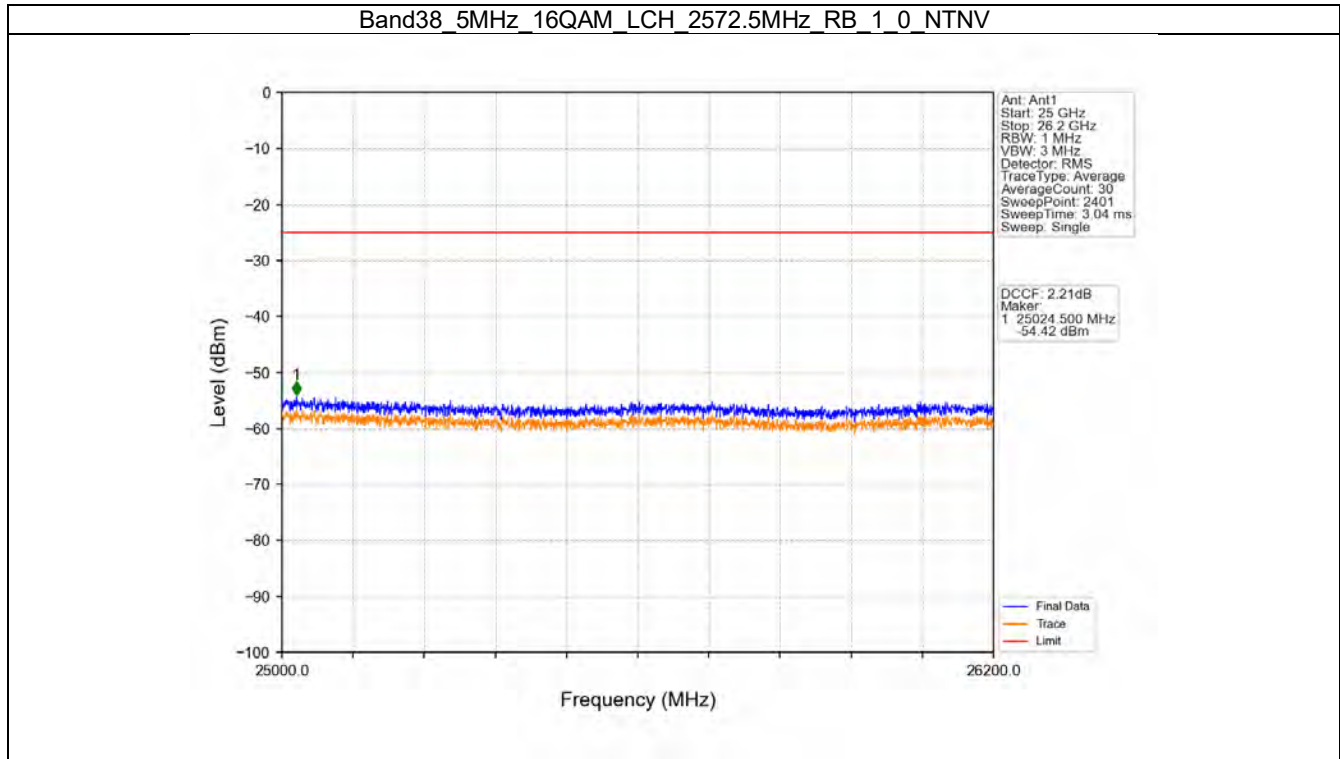


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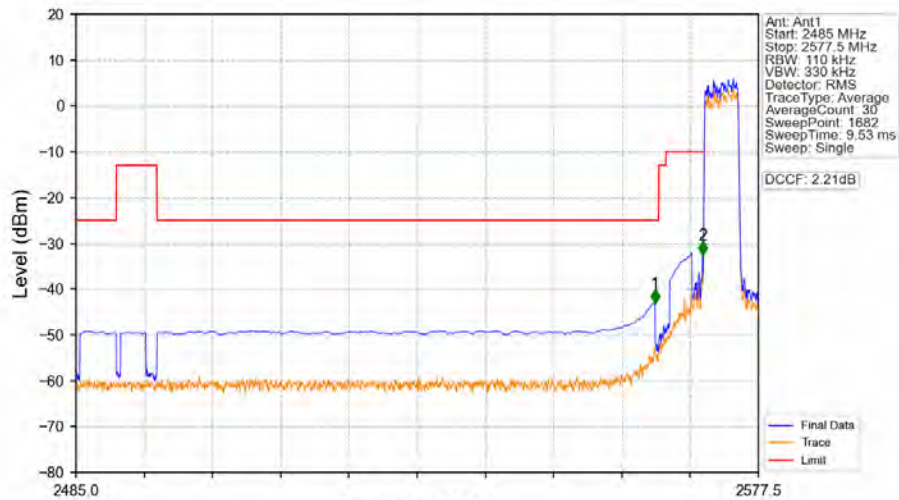
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Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2563.468	-43.19	-25	Pass
2569	2570	0.11	/	2	2569.961	-32.57	-10	Pass
2570	2577.5	0.11	/	/	/	/	/	/



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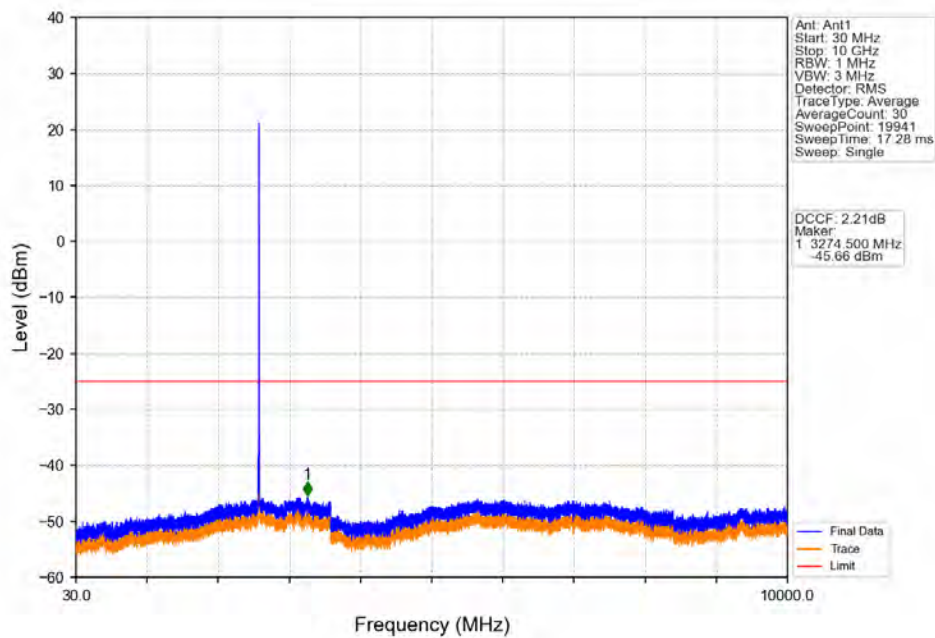
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Band38_5MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



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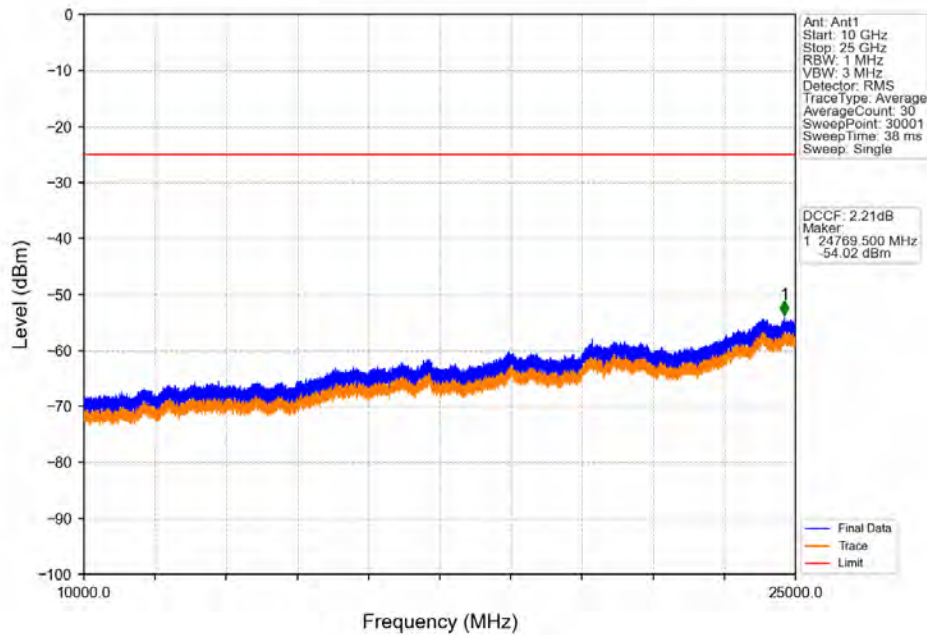
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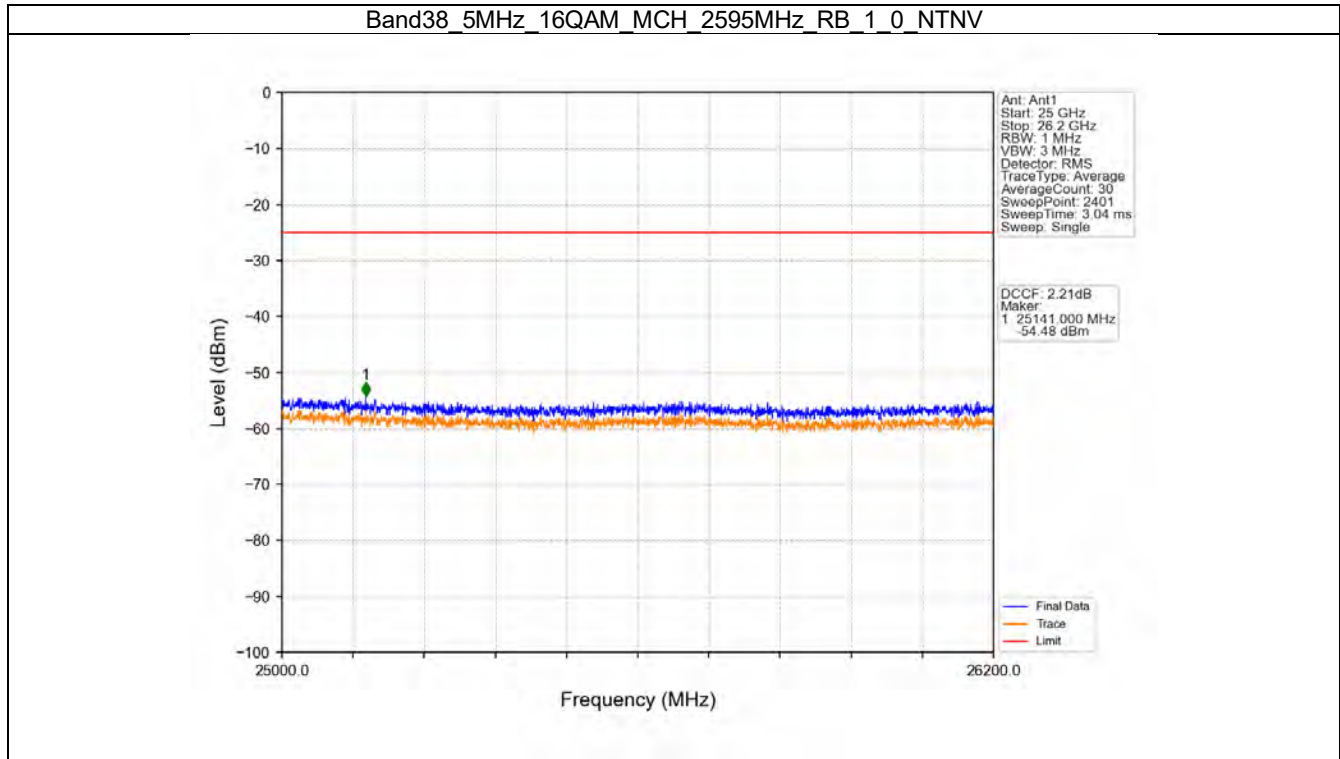


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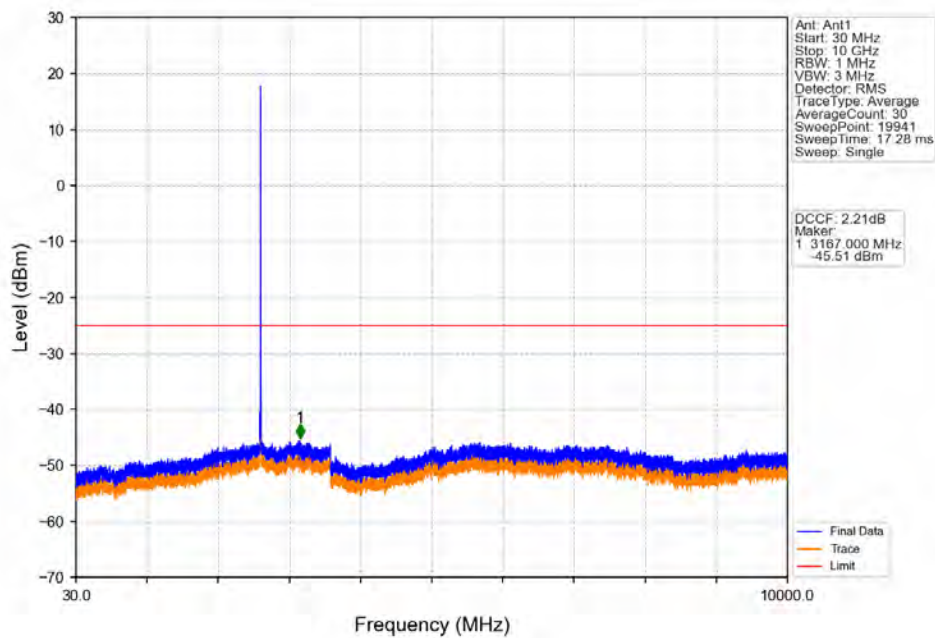
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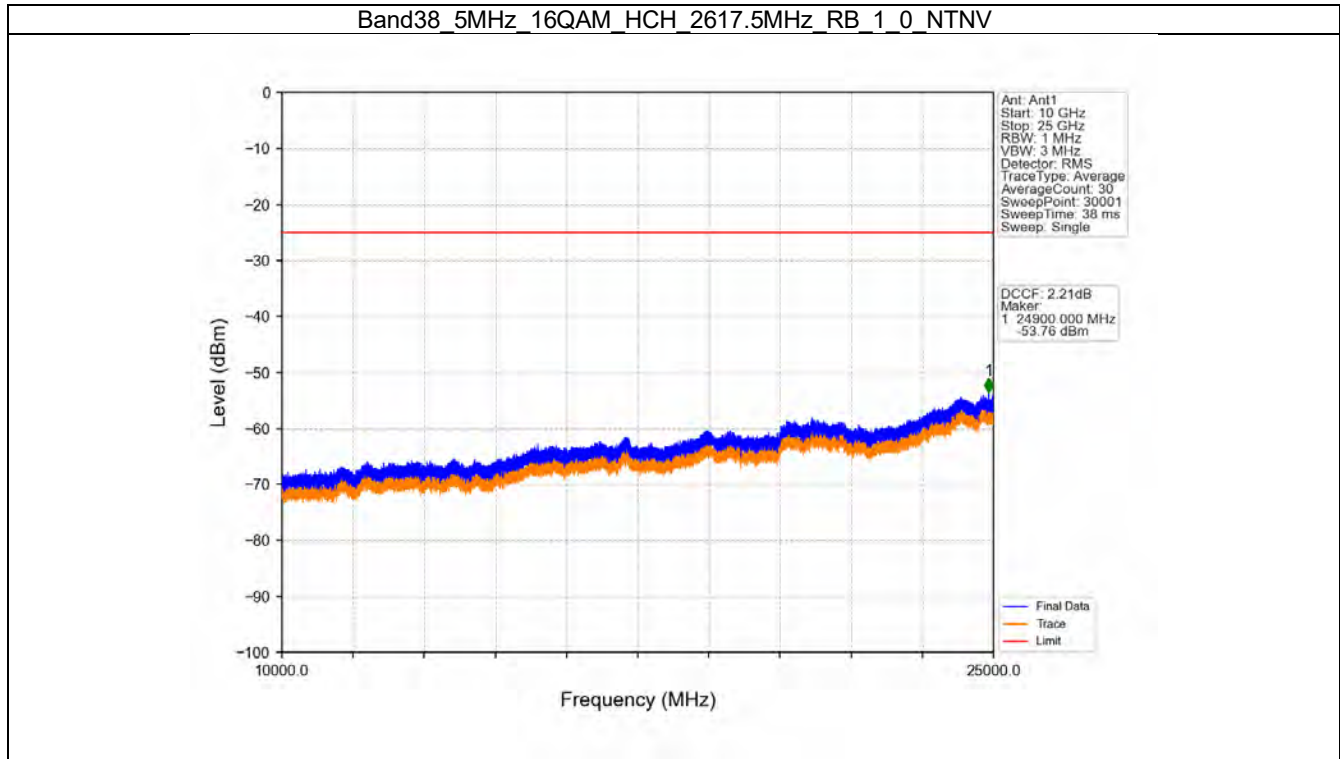


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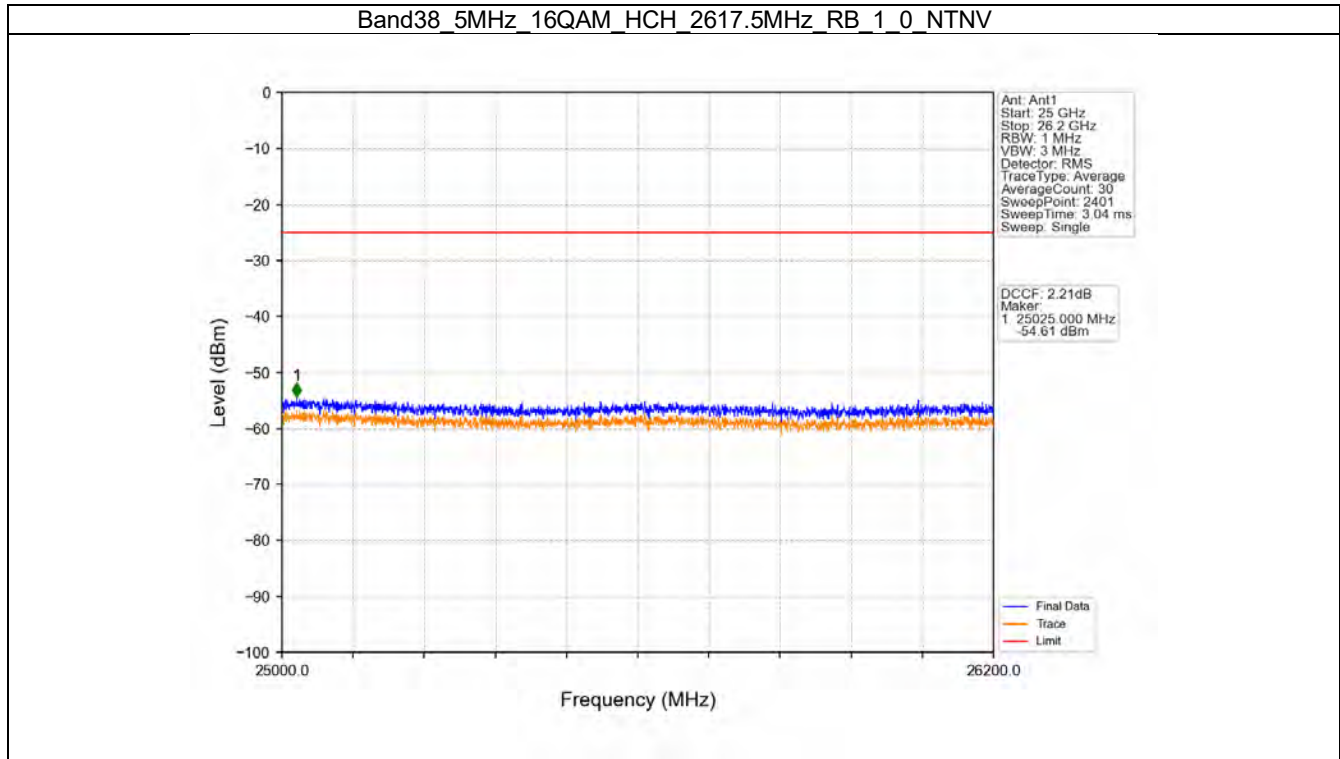


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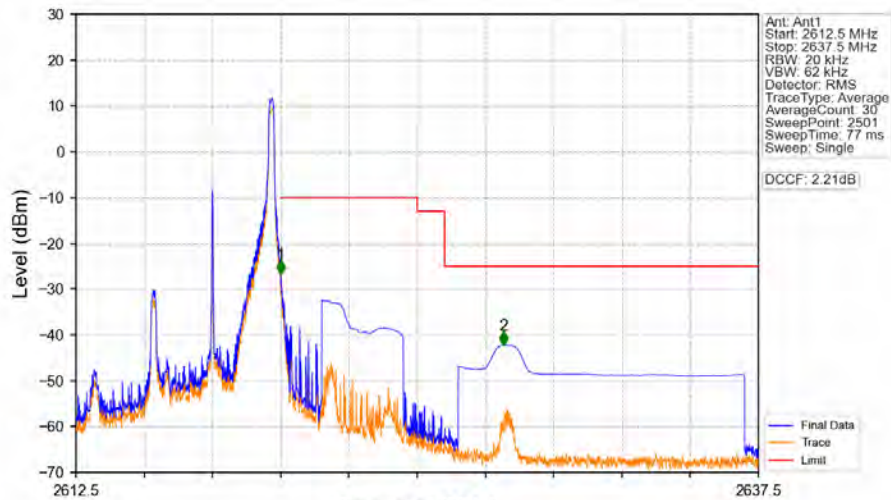
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2612.5	2620	0.02	/	/	/	/	/	/
2620	2621	0.02	/	1	2620.000	-26.80	-10	Pass
2621	2637.5	1	CHP	2	2628.170	-42.27	-25	Pass



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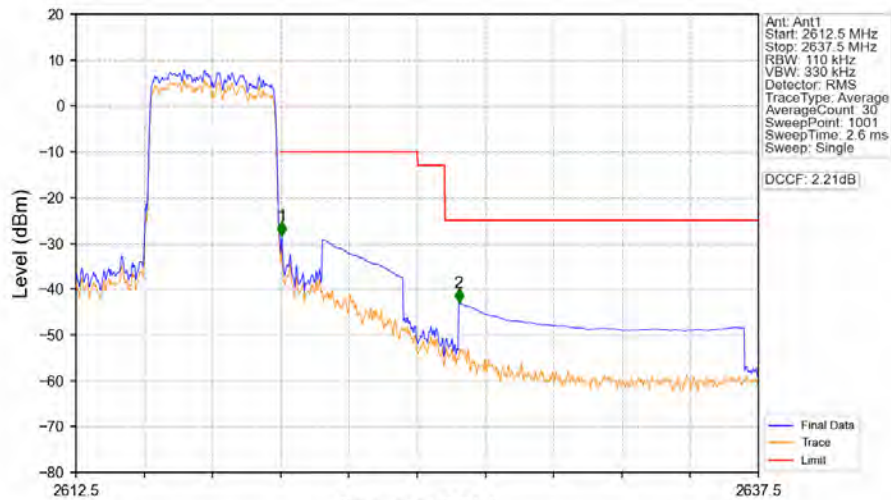
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Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.11	/	/	/	/	/	/
2620	2621	0.11	/	1	2620.050	-28.36	-10	Pass
2621	2637.5	1	CHP	2	2626.525	-43.03	-25	Pass



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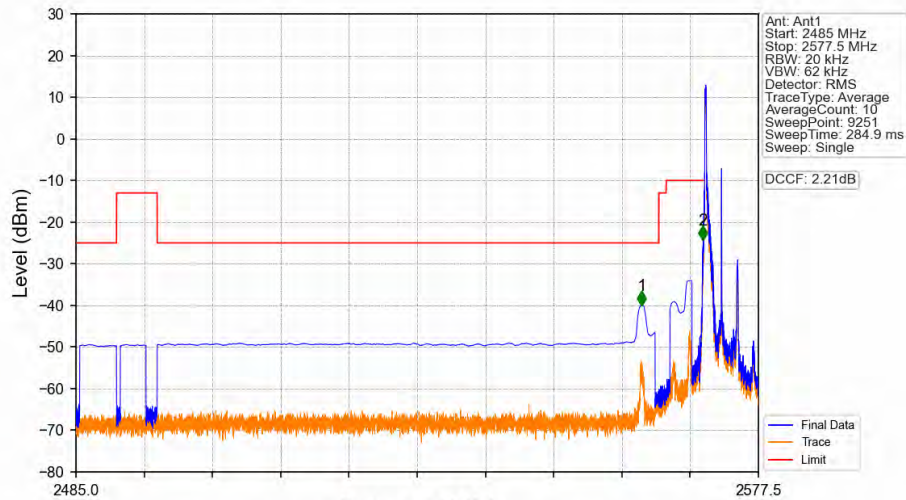
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Band38_5MHz_64QAM_LCH_2572.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2561.700	-40.02	-25	Pass
2569	2570	0.02	/	2	2570.000	-24.34	-10	Pass
2570	2577.5	0.02	/	/	/	/	/	/



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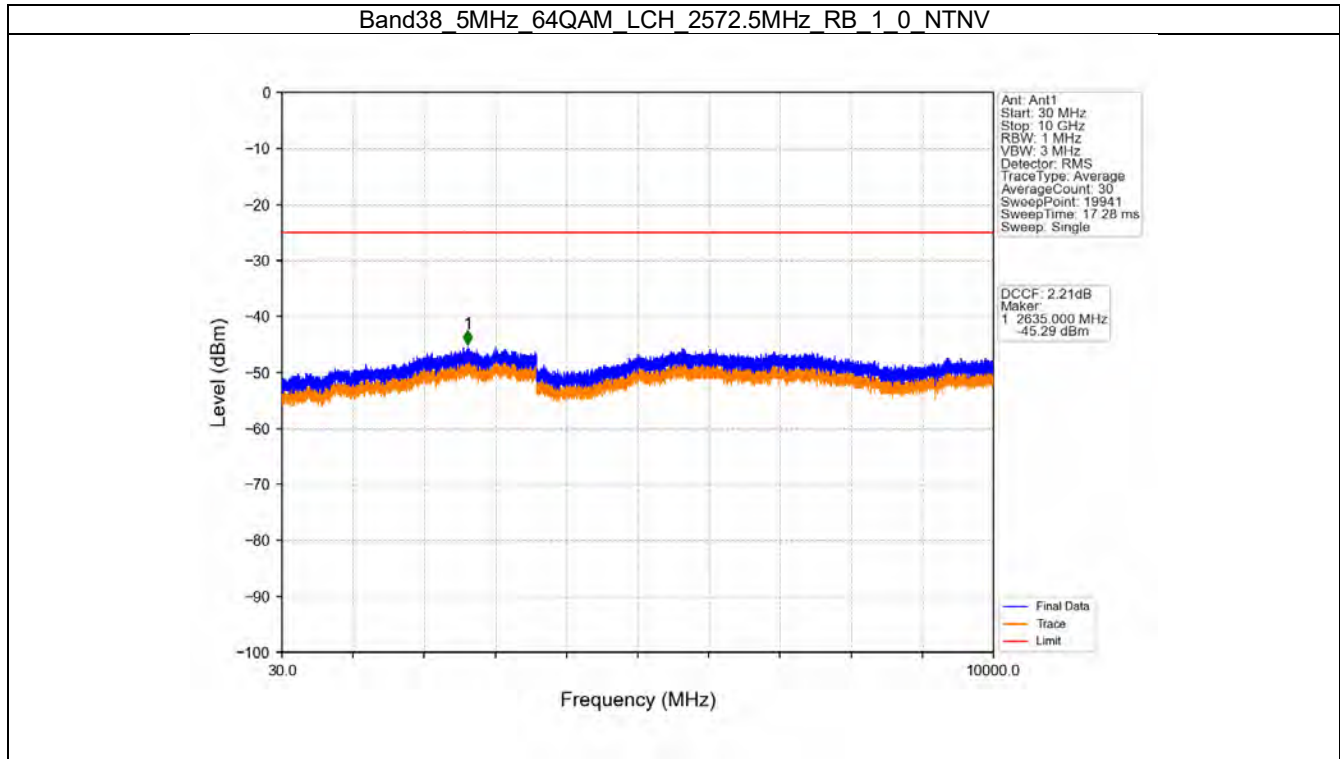


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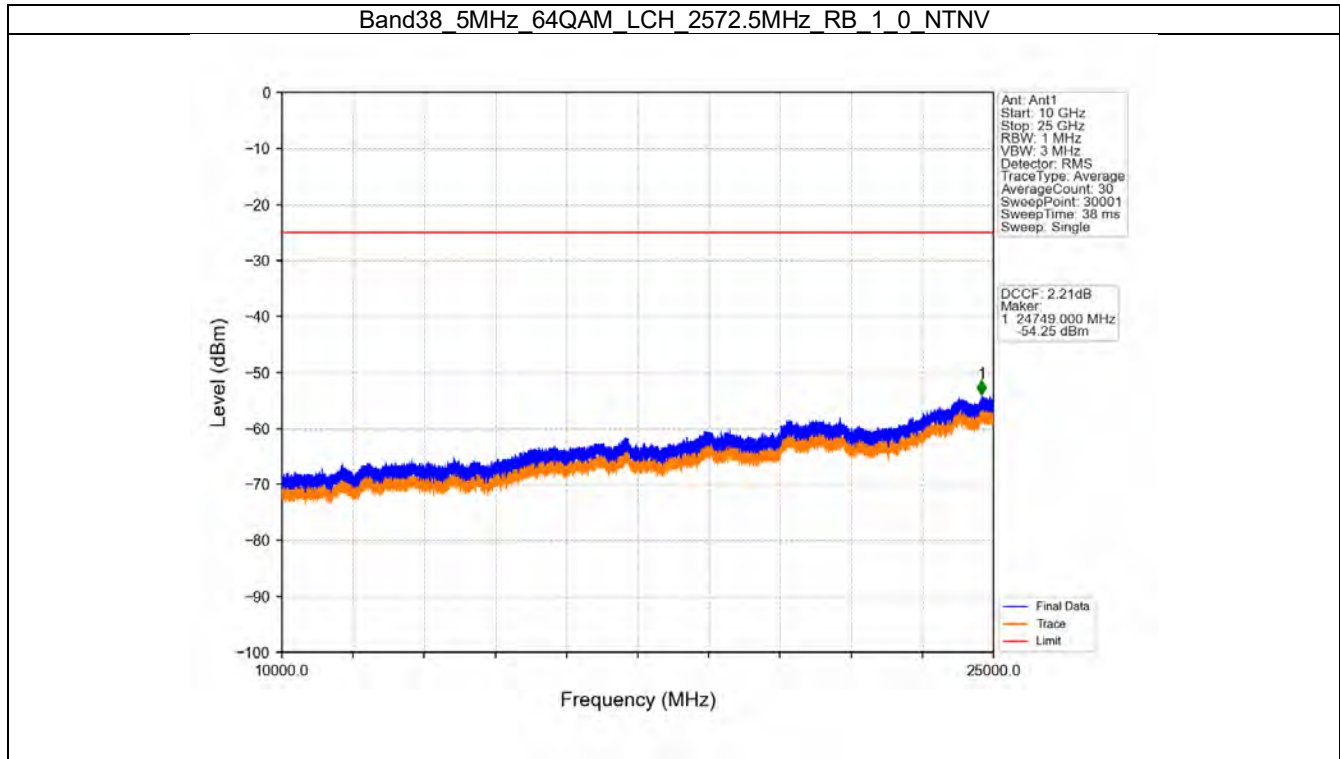


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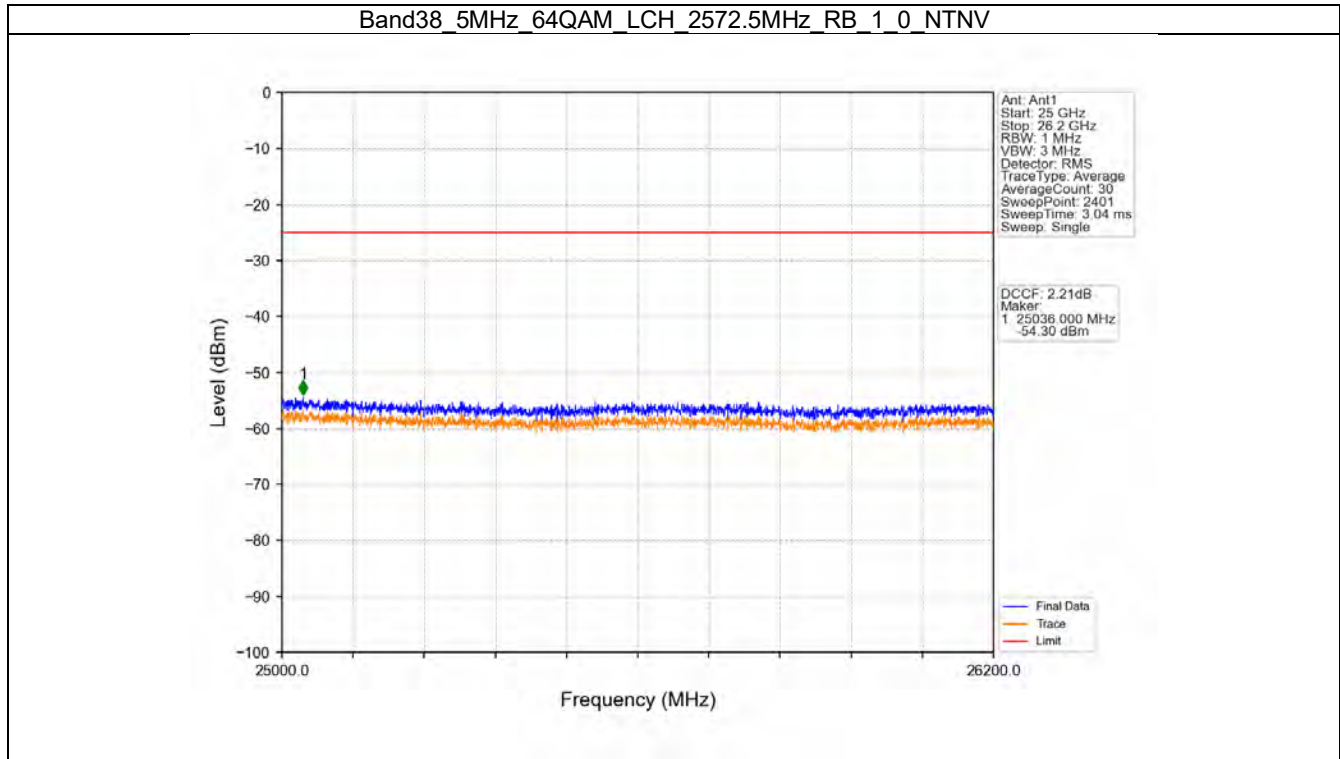


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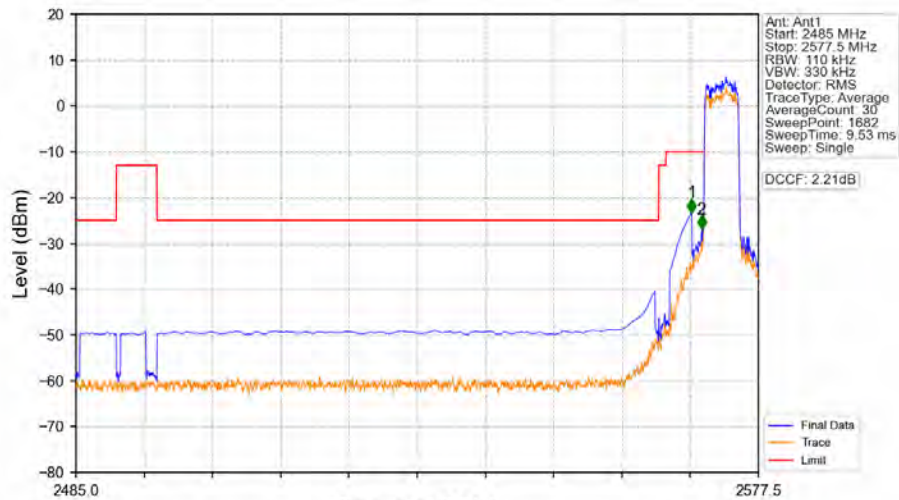
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Band38_5MHz_64QAM_LCH_2572.5MHz_RB_25_0_NTNV



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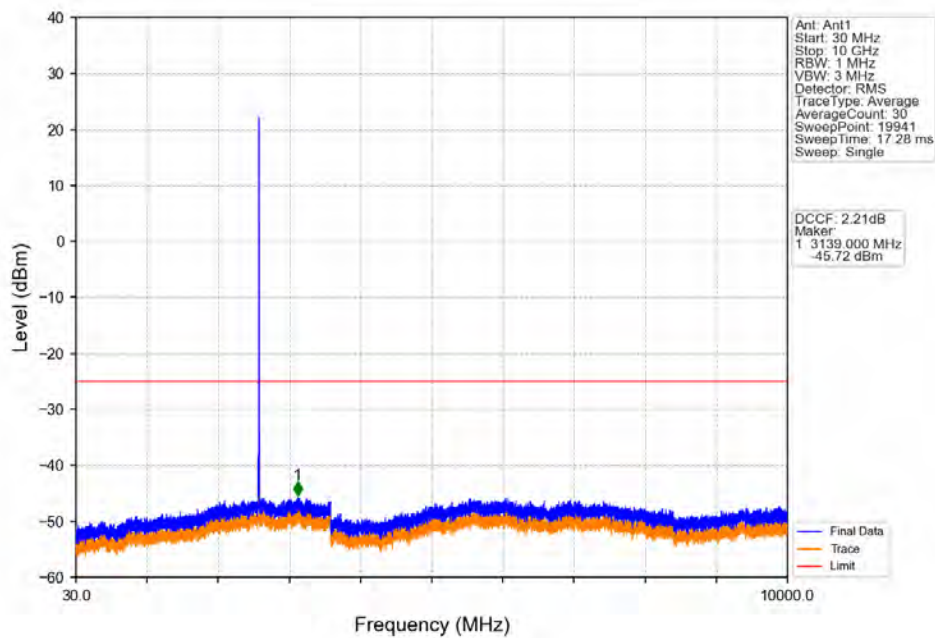
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Band38_5MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



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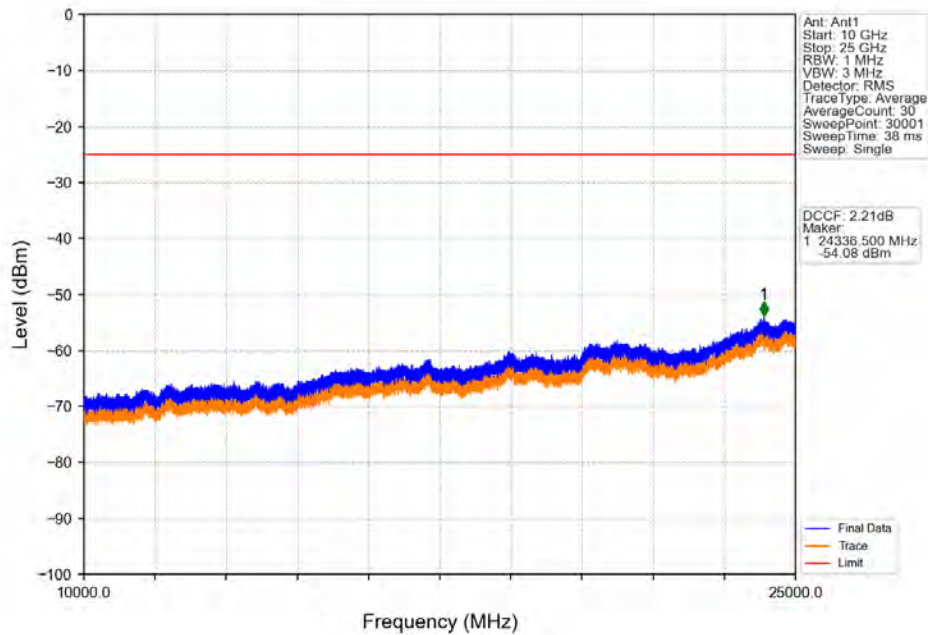
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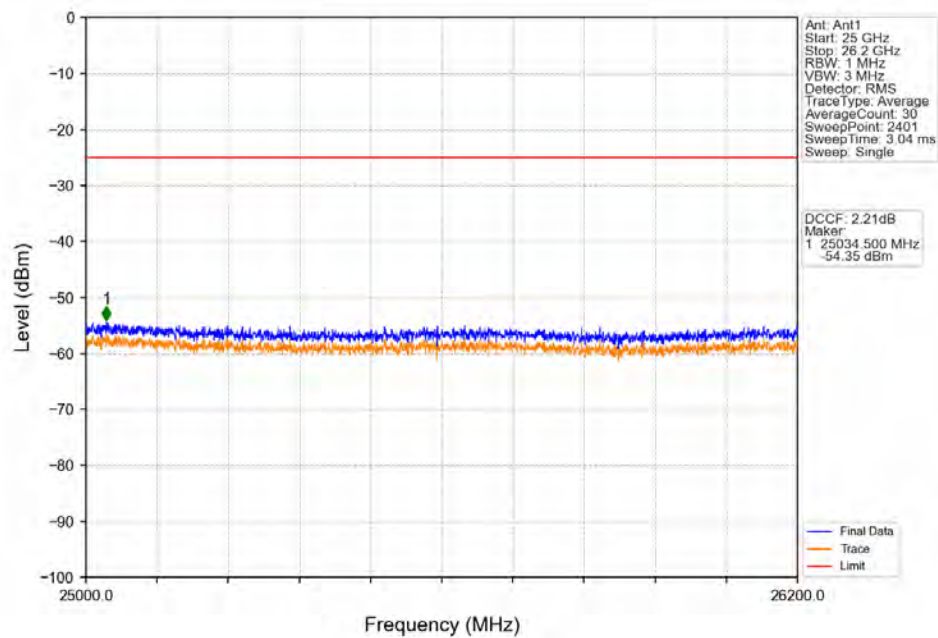
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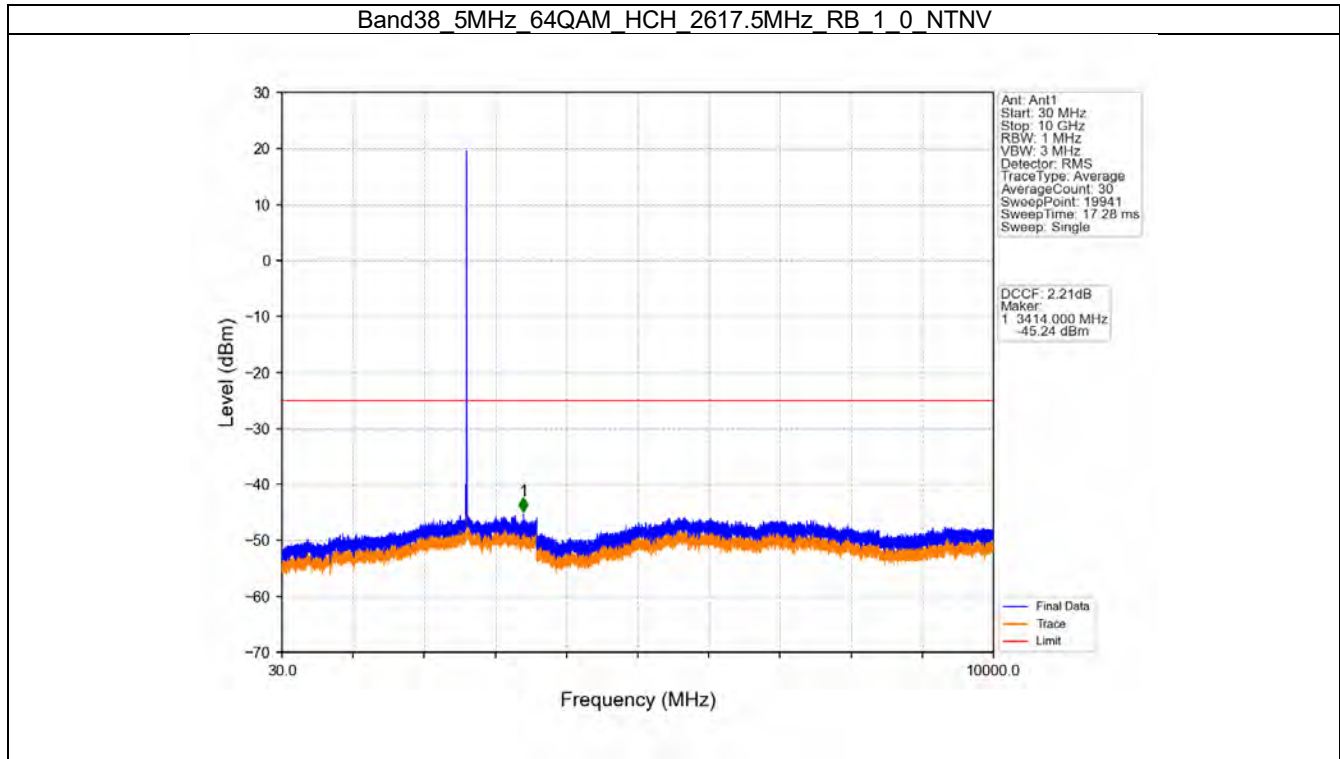


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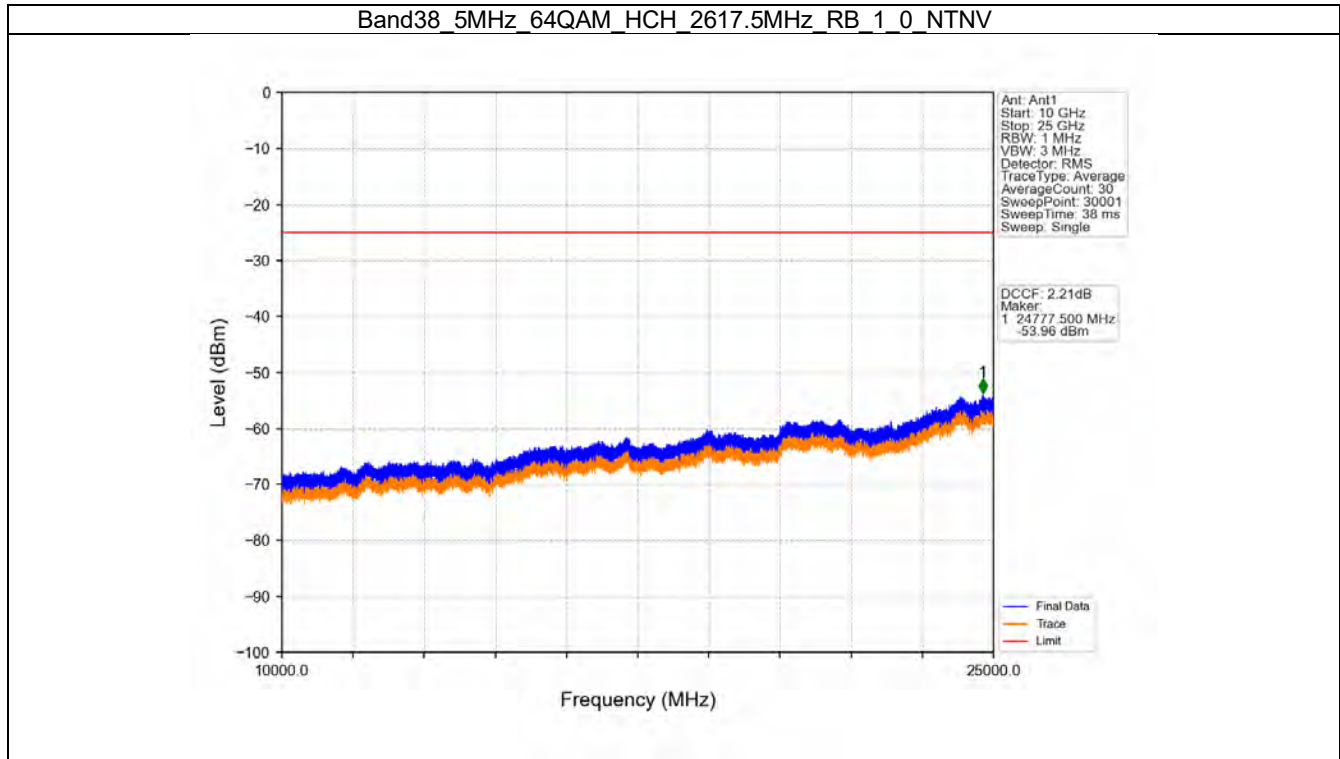


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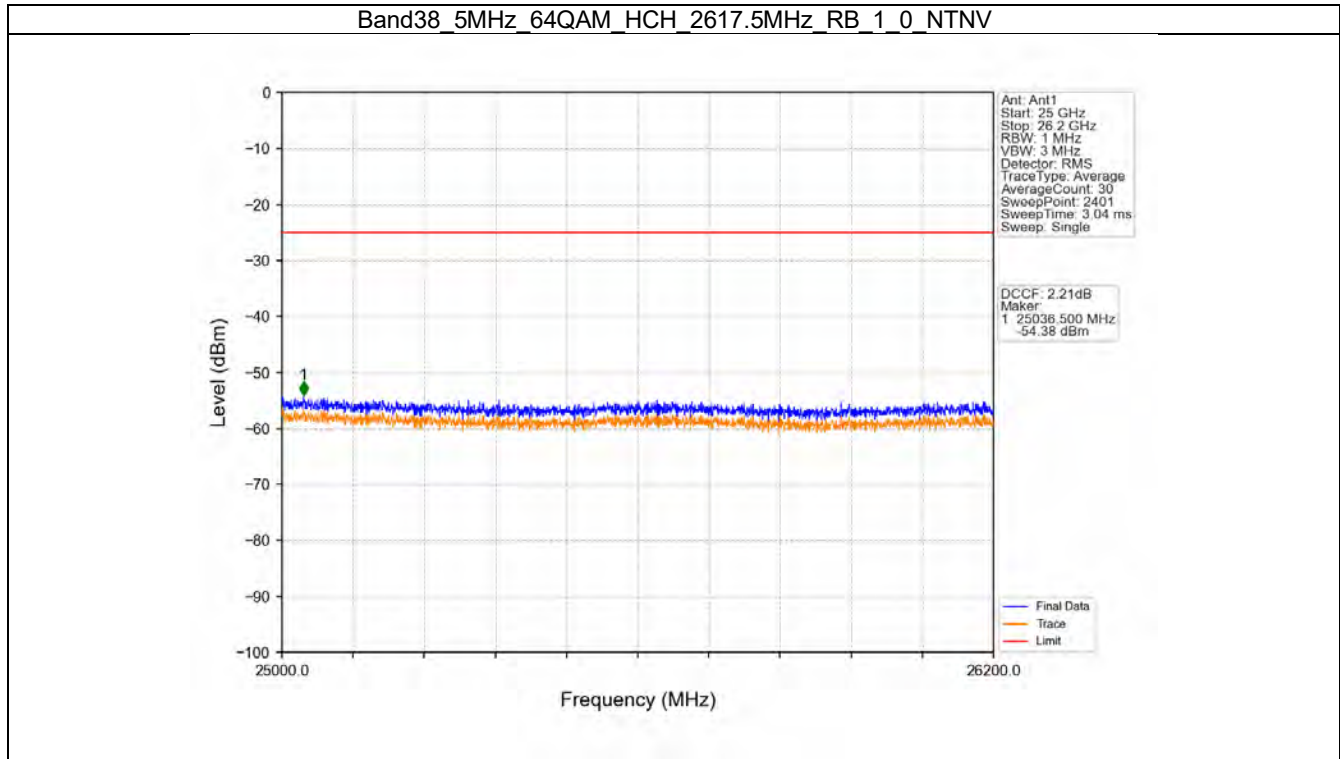


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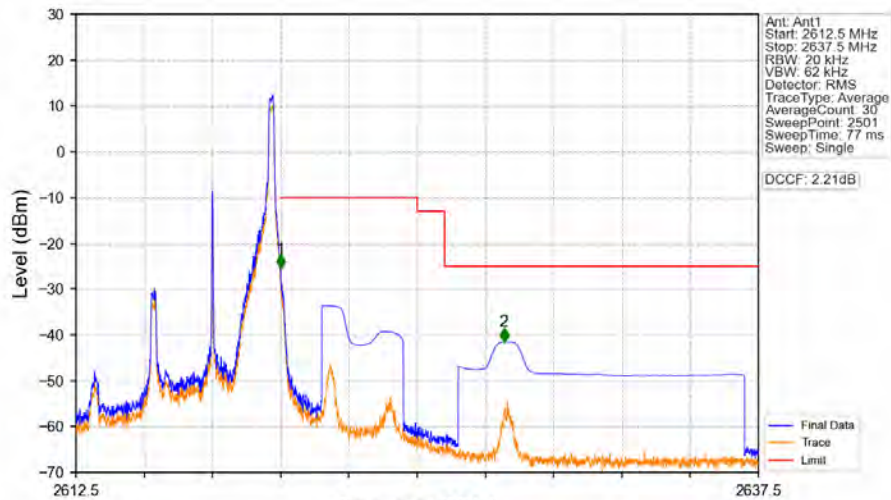
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Band38_5MHz_64QAM_HCH_2617.5MHz_RB_1_24_NTNV



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	-25.53	-10	Pass
2621	2637.5	1	CHP	2	2628.180	-41.53	-25	Pass



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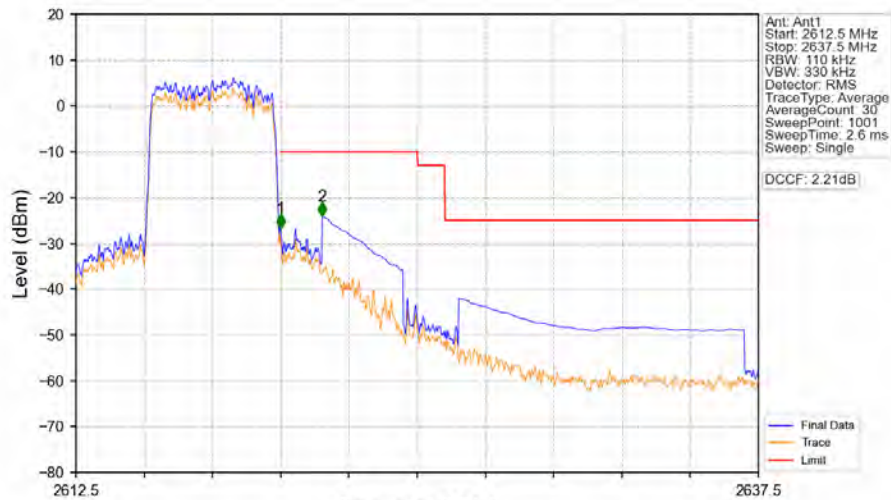
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Band38_5MHz_64QAM_HCH_2617.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.11	/	/	/	/	/	/
2620	2621	0.11	/	1	2620.000	-26.70	-10	Pass
2621	2637.5	1	CHP	2	2621.525	-24.10	-10	Pass



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5.2 B38_10MHz

5.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		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
		1	49	Refer To Test Graph	Pass
		50	0	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
		1	49	Refer To Test Graph	Pass
		50	0	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
		1	49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass



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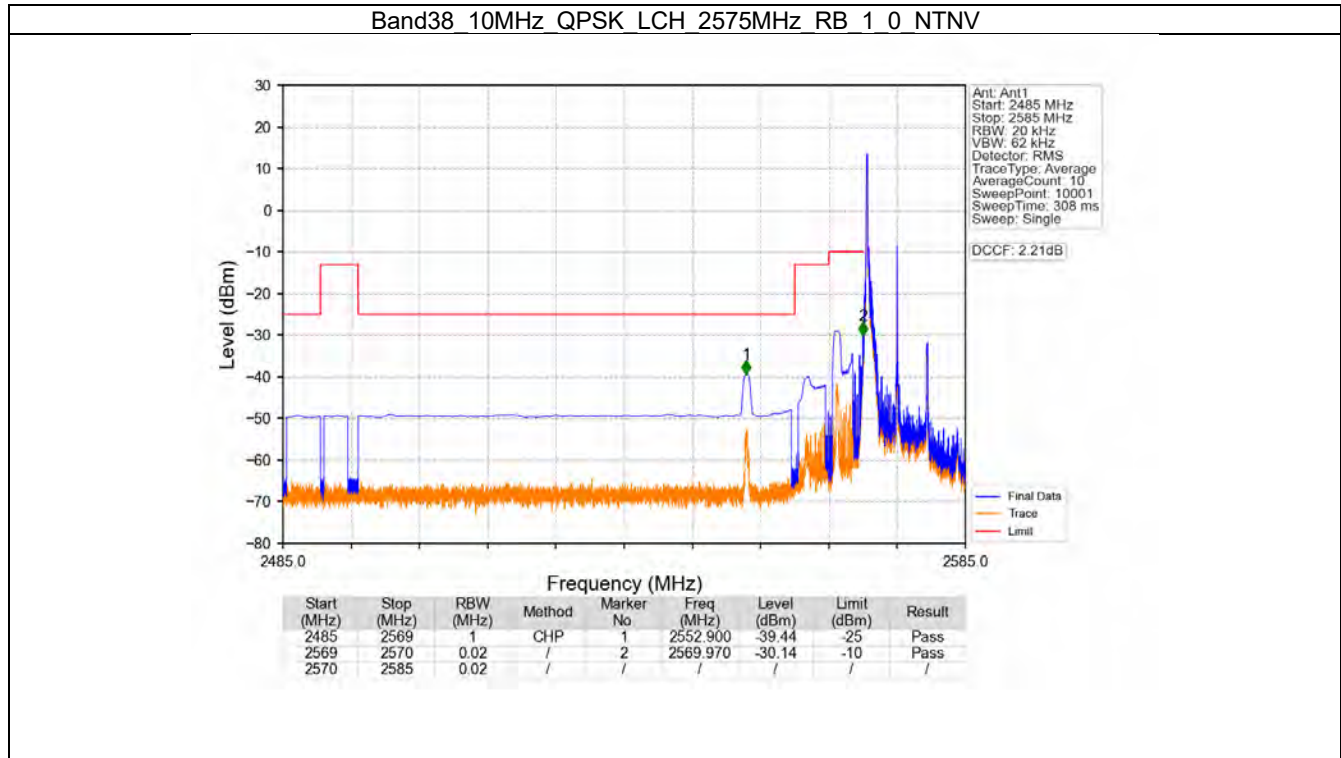
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5.2.2 Test Graph



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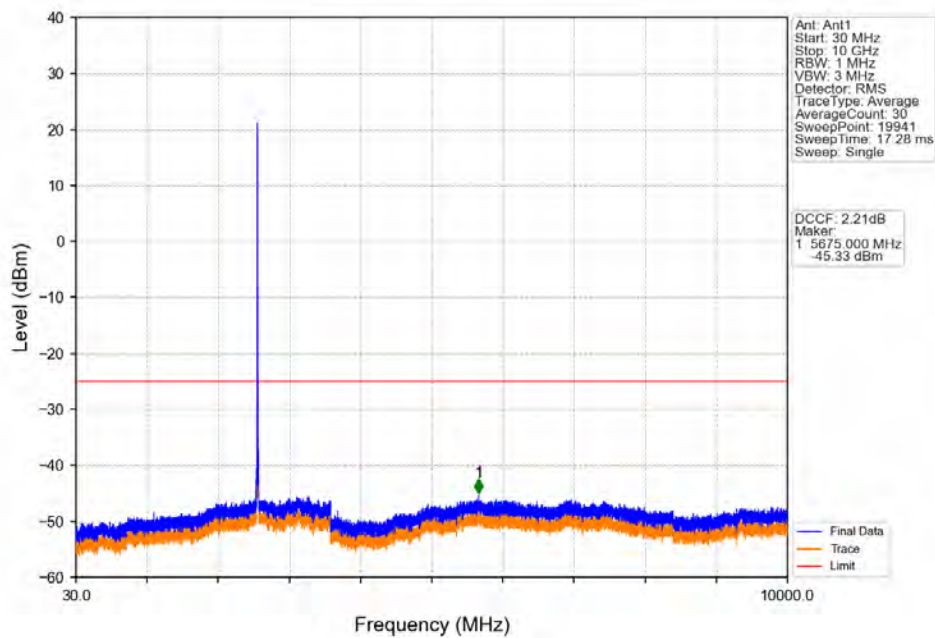
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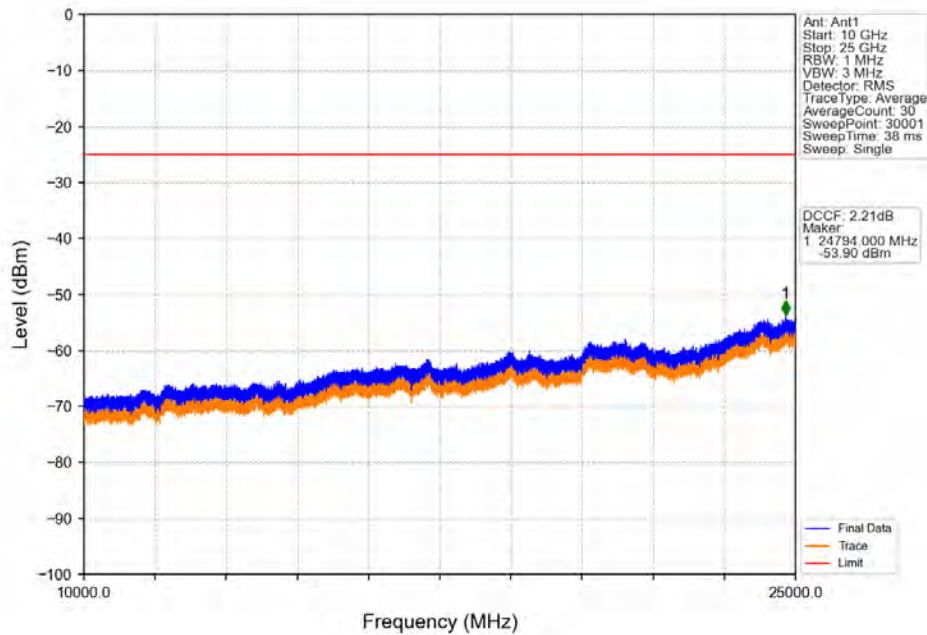
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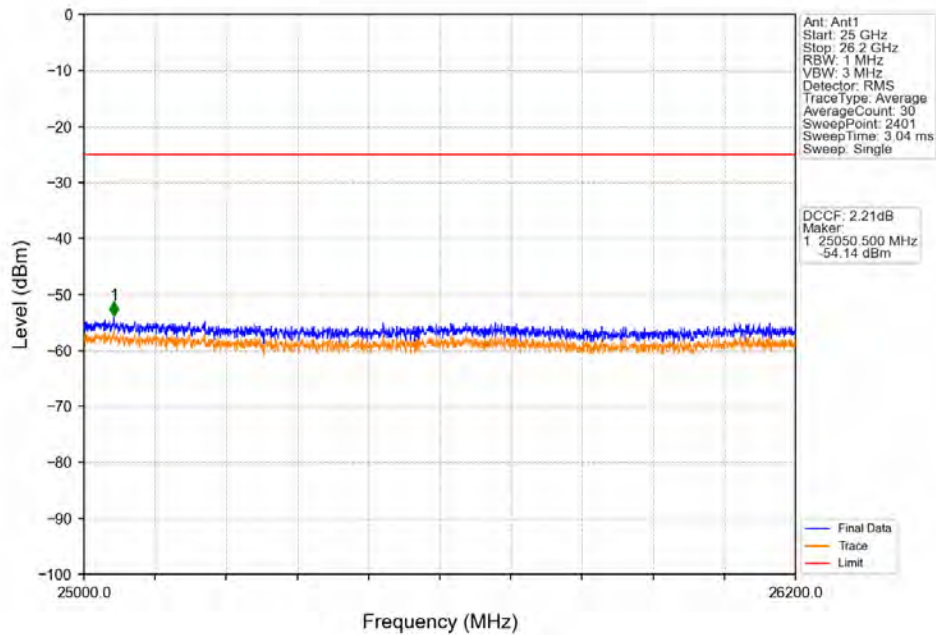
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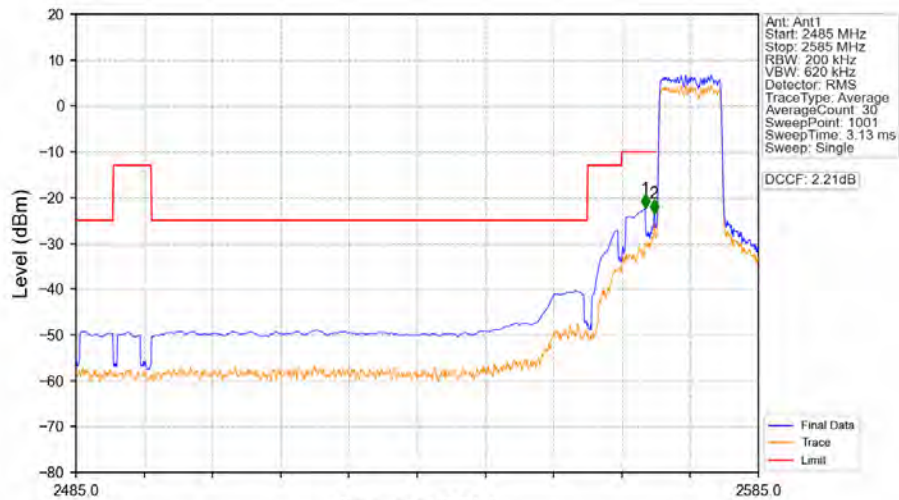
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Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2568.400	-22.36	-10	Pass
2569	2570	0.2	/	2	2569.700	-23.47	-10	Pass
2570	2585	0.2	/	/	/	/	/	/



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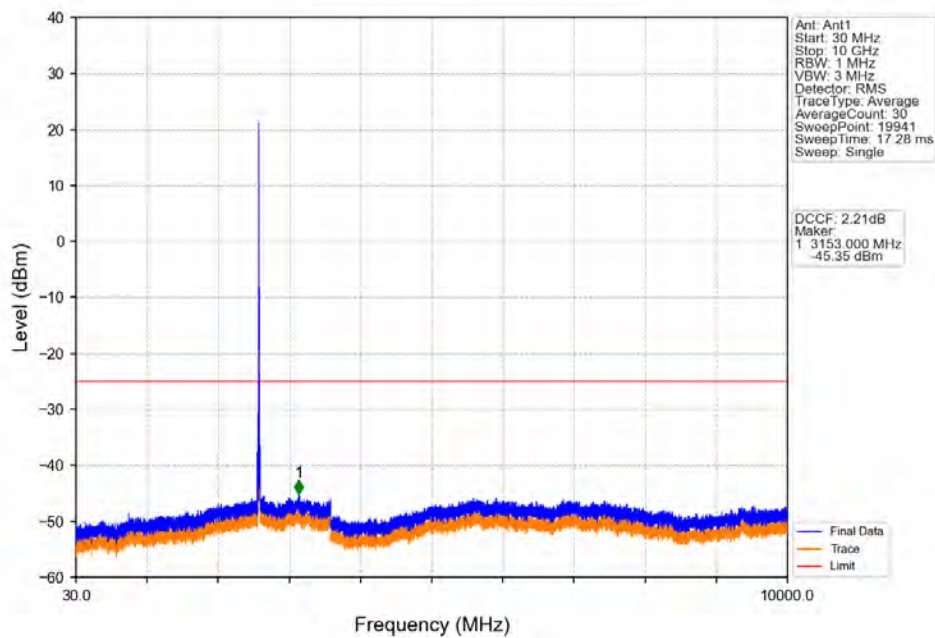
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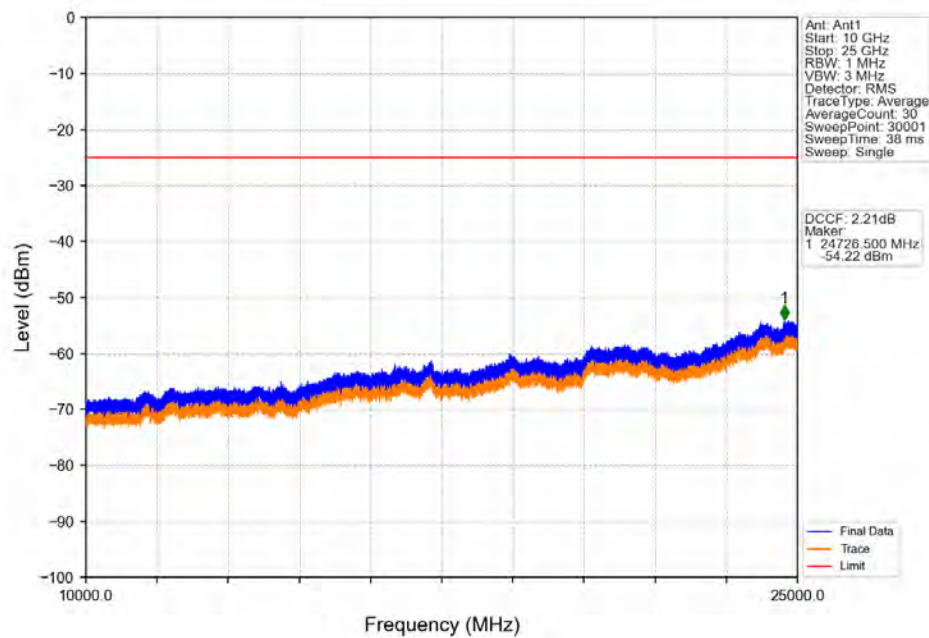
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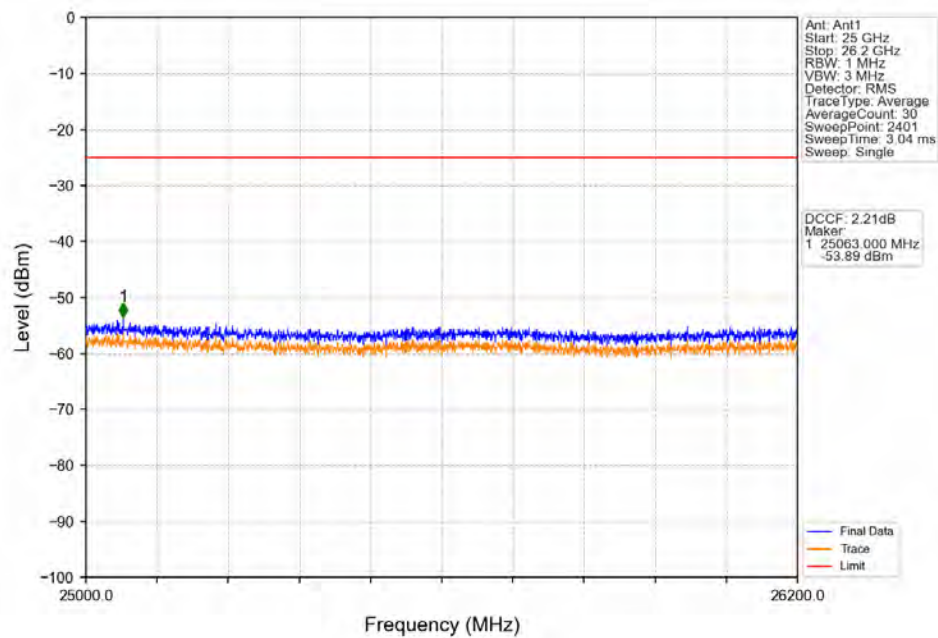
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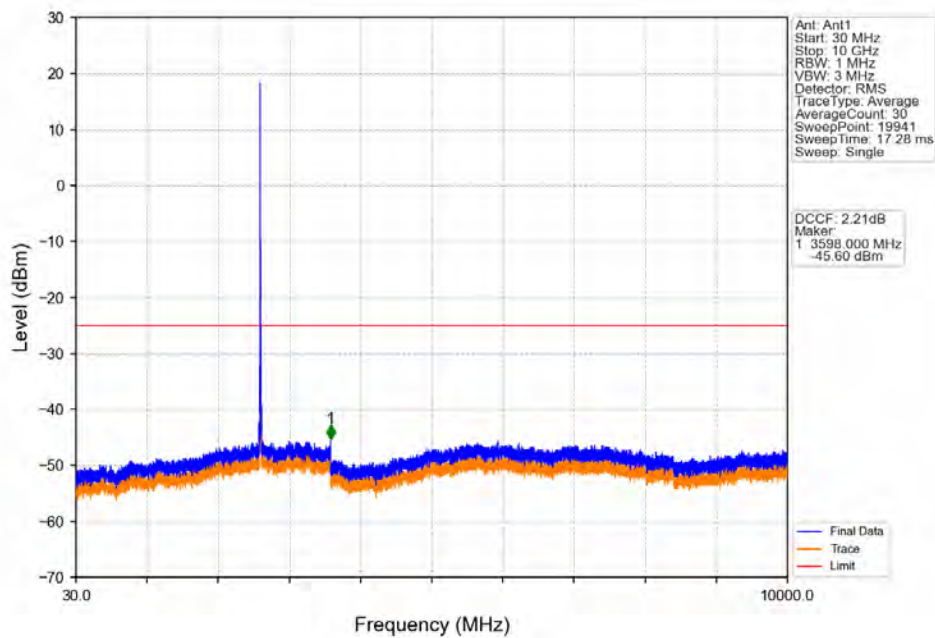
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