



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

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Appendix B.14

LTE Band 41



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B41_5MHz_EIRP_Ant1

1.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2498.5	1	0	24.08	-0.20	23.88	<=33.01	Pass
			13	24.16	-0.20	23.96	<=33.01	Pass
			24	24.13	-0.20	23.93	<=33.01	Pass
		12	0	23.31	-0.20	23.11	<=33.01	Pass
			6	23.37	-0.20	23.17	<=33.01	Pass
			13	23.27	-0.20	23.07	<=33.01	Pass
		25	0	23.26	-0.20	23.06	<=33.01	Pass
	2593	1	0	24.16	-0.20	23.96	<=33.01	Pass
			13	24.28	-0.20	24.08	<=33.01	Pass
			24	24.10	-0.20	23.90	<=33.01	Pass
		12	0	23.16	-0.20	22.96	<=33.01	Pass
			6	23.27	-0.20	23.07	<=33.01	Pass
			13	23.19	-0.20	22.99	<=33.01	Pass
		25	0	23.16	-0.20	22.96	<=33.01	Pass
	2687.5	1	0	23.92	-0.20	23.72	<=33.01	Pass
			13	23.97	-0.20	23.77	<=33.01	Pass
			24	23.96	-0.20	23.76	<=33.01	Pass
		12	0	23.06	-0.20	22.86	<=33.01	Pass
			6	23.06	-0.20	22.86	<=33.01	Pass
			13	22.98	-0.20	22.78	<=33.01	Pass
		25	0	23.07	-0.20	22.87	<=33.01	Pass
16QAM	2498.5	1	0	23.24	-0.20	23.04	<=33.01	Pass
			13	23.52	-0.20	23.32	<=33.01	Pass
			24	23.25	-0.20	23.05	<=33.01	Pass
		12	0	22.32	-0.20	22.12	<=33.01	Pass
			6	22.37	-0.20	22.17	<=33.01	Pass
			13	22.29	-0.20	22.09	<=33.01	Pass
		25	0	22.33	-0.20	22.13	<=33.01	Pass
	2593	1	0	23.14	-0.20	22.94	<=33.01	Pass
			13	23.24	-0.20	23.04	<=33.01	Pass
			24	23.10	-0.20	22.90	<=33.01	Pass
		12	0	22.06	-0.20	21.86	<=33.01	Pass
			6	22.15	-0.20	21.95	<=33.01	Pass
			13	22.13	-0.20	21.93	<=33.01	Pass
		25	0	22.23	-0.20	22.03	<=33.01	Pass



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64QAM	2687.5	1	0	22.70	-0.20	22.50	<=33.01	Pass
			13	22.83	-0.20	22.63	<=33.01	Pass
			24	22.72	-0.20	22.52	<=33.01	Pass
		12	0	22.02	-0.20	21.82	<=33.01	Pass
			6	22.14	-0.20	21.94	<=33.01	Pass
			13	21.93	-0.20	21.73	<=33.01	Pass
		25	0	22.16	-0.20	21.96	<=33.01	Pass
	2498.5	1	0	22.42	-0.20	22.22	<=33.01	Pass
			13	22.48	-0.20	22.28	<=33.01	Pass
			24	22.39	-0.20	22.19	<=33.01	Pass
		12	0	21.13	-0.20	20.93	<=33.01	Pass
			6	21.17	-0.20	20.97	<=33.01	Pass
			13	21.13	-0.20	20.93	<=33.01	Pass
		25	0	21.18	-0.20	20.98	<=33.01	Pass
	2593	1	0	22.23	-0.20	22.03	<=33.01	Pass
			13	22.35	-0.20	22.15	<=33.01	Pass
			24	22.21	-0.20	22.01	<=33.01	Pass
		12	0	21.10	-0.20	20.90	<=33.01	Pass
			6	21.13	-0.20	20.93	<=33.01	Pass
			13	20.98	-0.20	20.78	<=33.01	Pass
		25	0	21.03	-0.20	20.83	<=33.01	Pass
	2687.5	1	0	22.24	-0.20	22.04	<=33.01	Pass
			13	22.51	-0.20	22.31	<=33.01	Pass
			24	21.75	-0.20	21.55	<=33.01	Pass
		12	0	20.84	-0.20	20.64	<=33.01	Pass
			6	21.04	-0.20	20.84	<=33.01	Pass
			13	20.91	-0.20	20.71	<=33.01	Pass
		25	0	20.91	-0.20	20.71	<=33.01	Pass



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1.2 B41_10MHz_EIRP

1.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2501	1	0	24.28	-0.20	24.08	<=33.01	Pass
			25	24.49	-0.20	24.29	<=33.01	Pass
			49	24.25	-0.20	24.05	<=33.01	Pass
		25	0	23.36	-0.20	23.16	<=33.01	Pass
			13	23.40	-0.20	23.20	<=33.01	Pass
			25	23.41	-0.20	23.21	<=33.01	Pass
		50	0	23.37	-0.20	23.17	<=33.01	Pass
	2593	1	0	24.27	-0.20	24.07	<=33.01	Pass
			25	24.40	-0.20	24.20	<=33.01	Pass
			49	24.18	-0.20	23.98	<=33.01	Pass
		25	0	23.23	-0.20	23.03	<=33.01	Pass
			13	23.33	-0.20	23.13	<=33.01	Pass
			25	23.26	-0.20	23.06	<=33.01	Pass
		50	0	23.22	-0.20	23.02	<=33.01	Pass
	2685	1	0	24.03	-0.20	23.83	<=33.01	Pass
			25	24.14	-0.20	23.94	<=33.01	Pass
			49	24.06	-0.20	23.86	<=33.01	Pass
		25	0	23.03	-0.20	22.83	<=33.01	Pass
			13	23.03	-0.20	22.83	<=33.01	Pass
			25	23.07	-0.20	22.87	<=33.01	Pass
		50	0	23.07	-0.20	22.87	<=33.01	Pass
16QAM	2501	1	0	23.32	-0.20	23.12	<=33.01	Pass
			25	23.57	-0.20	23.37	<=33.01	Pass
			49	23.40	-0.20	23.20	<=33.01	Pass
		25	0	22.37	-0.20	22.17	<=33.01	Pass
			13	22.43	-0.20	22.23	<=33.01	Pass
			25	22.49	-0.20	22.29	<=33.01	Pass
		50	0	22.34	-0.20	22.14	<=33.01	Pass
	2593	1	0	23.00	-0.20	22.80	<=33.01	Pass
			25	23.10	-0.20	22.90	<=33.01	Pass
			49	23.09	-0.20	22.89	<=33.01	Pass
		25	0	22.27	-0.20	22.07	<=33.01	Pass
			13	22.30	-0.20	22.10	<=33.01	Pass
			25	22.28	-0.20	22.08	<=33.01	Pass
		50	0	22.13	-0.20	21.93	<=33.01	Pass
	2685	1	0	22.63	-0.20	22.43	<=33.01	Pass
			25	23.08	-0.20	22.88	<=33.01	Pass
			49	23.20	-0.20	23.00	<=33.01	Pass



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64QAM	2501	25	0	22.05	-0.20	21.85	<=33.01	Pass
			13	22.05	-0.20	21.85	<=33.01	Pass
			25	22.16	-0.20	21.96	<=33.01	Pass
		50	0	22.05	-0.20	21.85	<=33.01	Pass
			1	21.84	-0.20	21.64	<=33.01	Pass
			25	22.73	-0.20	22.53	<=33.01	Pass
			49	21.82	-0.20	21.62	<=33.01	Pass
		25	0	21.25	-0.20	21.05	<=33.01	Pass
			13	21.31	-0.20	21.11	<=33.01	Pass
			25	21.24	-0.20	21.04	<=33.01	Pass
		50	0	21.16	-0.20	20.96	<=33.01	Pass
	2593	1	0	22.56	-0.20	22.36	<=33.01	Pass
			25	22.66	-0.20	22.46	<=33.01	Pass
			49	21.81	-0.20	21.61	<=33.01	Pass
		25	0	21.08	-0.20	20.88	<=33.01	Pass
			13	21.07	-0.20	20.87	<=33.01	Pass
			25	21.10	-0.20	20.90	<=33.01	Pass
		50	0	21.02	-0.20	20.82	<=33.01	Pass
	2685	1	0	21.75	-0.20	21.55	<=33.01	Pass
			25	22.23	-0.20	22.03	<=33.01	Pass
			49	21.67	-0.20	21.47	<=33.01	Pass
		25	0	20.99	-0.20	20.79	<=33.01	Pass
			13	21.00	-0.20	20.80	<=33.01	Pass
			25	21.02	-0.20	20.82	<=33.01	Pass
		50	0	20.96	-0.20	20.76	<=33.01	Pass



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1.3 B41_15MHz_EIRP

1.3.1 Test Result

Band: 41 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2503.5	1	0	24.18	-0.20	23.98	<=33.01	Pass
			38	24.27	-0.20	24.07	<=33.01	Pass
			74	24.13	-0.20	23.93	<=33.01	Pass
		36	0	23.29	-0.20	23.09	<=33.01	Pass
			18	23.32	-0.20	23.12	<=33.01	Pass
			39	23.30	-0.20	23.10	<=33.01	Pass
		75	0	23.34	-0.20	23.14	<=33.01	Pass
	2593	1	0	24.18	-0.20	23.98	<=33.01	Pass
			38	24.26	-0.20	24.06	<=33.01	Pass
			74	24.07	-0.20	23.87	<=33.01	Pass
		36	0	23.21	-0.20	23.01	<=33.01	Pass
			18	23.22	-0.20	23.02	<=33.01	Pass
			39	23.15	-0.20	22.95	<=33.01	Pass
		75	0	23.23	-0.20	23.03	<=33.01	Pass
	2682.5	1	0	23.83	-0.20	23.63	<=33.01	Pass
			38	23.94	-0.20	23.74	<=33.01	Pass
			74	23.94	-0.20	23.74	<=33.01	Pass
		36	0	22.97	-0.20	22.77	<=33.01	Pass
			18	23.02	-0.20	22.82	<=33.01	Pass
			39	23.04	-0.20	22.84	<=33.01	Pass
		75	0	23.01	-0.20	22.81	<=33.01	Pass
16QAM	2503.5	1	0	23.27	-0.20	23.07	<=33.01	Pass
			38	23.45	-0.20	23.25	<=33.01	Pass
			74	23.00	-0.20	22.80	<=33.01	Pass
		36	0	22.23	-0.20	22.03	<=33.01	Pass
			18	22.27	-0.20	22.07	<=33.01	Pass
			39	22.28	-0.20	22.08	<=33.01	Pass
		75	0	22.28	-0.20	22.08	<=33.01	Pass
	2593	1	0	23.07	-0.20	22.87	<=33.01	Pass
			38	22.95	-0.20	22.75	<=33.01	Pass
			74	22.96	-0.20	22.76	<=33.01	Pass
		36	0	22.13	-0.20	21.93	<=33.01	Pass
			18	22.17	-0.20	21.97	<=33.01	Pass
			39	22.10	-0.20	21.90	<=33.01	Pass
		75	0	22.15	-0.20	21.95	<=33.01	Pass
	2682.5	1	0	22.91	-0.20	22.71	<=33.01	Pass
			38	23.06	-0.20	22.86	<=33.01	Pass
			74	23.22	-0.20	23.02	<=33.01	Pass



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64QAM	2503.5	36	0	21.90	-0.20	21.70	<=33.01	Pass
			18	21.93	-0.20	21.73	<=33.01	Pass
			39	22.00	-0.20	21.80	<=33.01	Pass
		75	0	22.02	-0.20	21.82	<=33.01	Pass
			0	22.46	-0.20	22.26	<=33.01	Pass
			38	22.56	-0.20	22.36	<=33.01	Pass
			74	21.96	-0.20	21.76	<=33.01	Pass
		36	0	21.17	-0.20	20.97	<=33.01	Pass
			18	21.29	-0.20	21.09	<=33.01	Pass
			39	21.25	-0.20	21.05	<=33.01	Pass
	2593	75	0	21.21	-0.20	21.01	<=33.01	Pass
			0	21.78	-0.20	21.58	<=33.01	Pass
			38	22.52	-0.20	22.32	<=33.01	Pass
		1	74	22.08	-0.20	21.88	<=33.01	Pass
			0	21.11	-0.20	20.91	<=33.01	Pass
			18	21.07	-0.20	20.87	<=33.01	Pass
		36	39	21.05	-0.20	20.85	<=33.01	Pass
			0	21.07	-0.20	20.87	<=33.01	Pass
			0	21.97	-0.20	21.77	<=33.01	Pass
	2682.5	1	38	21.92	-0.20	21.72	<=33.01	Pass
			74	21.80	-0.20	21.60	<=33.01	Pass
			0	20.89	-0.20	20.69	<=33.01	Pass
		36	18	20.94	-0.20	20.74	<=33.01	Pass
			39	20.93	-0.20	20.73	<=33.01	Pass
			0	20.94	-0.20	20.74	<=33.01	Pass
		75	0	20.94	-0.20	20.74	<=33.01	Pass



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1.4 B41_20MHz_EIRP

1.4.1 Test Result

Band: 41 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2506	1	0	24.19	-0.20	23.99	<=33.01	Pass
			50	24.39	-0.20	24.19	<=33.01	Pass
			99	24.14	-0.20	23.94	<=33.01	Pass
		50	0	23.26	-0.20	23.06	<=33.01	Pass
			25	23.35	-0.20	23.15	<=33.01	Pass
			50	23.34	-0.20	23.14	<=33.01	Pass
		100	0	23.31	-0.20	23.11	<=33.01	Pass
	2593	1	0	24.08	-0.20	23.88	<=33.01	Pass
			50	24.25	-0.20	24.05	<=33.01	Pass
			99	23.96	-0.20	23.76	<=33.01	Pass
		50	0	23.13	-0.20	22.93	<=33.01	Pass
			25	23.16	-0.20	22.96	<=33.01	Pass
			50	23.09	-0.20	22.89	<=33.01	Pass
		100	0	23.10	-0.20	22.90	<=33.01	Pass
	2680	1	0	23.71	-0.20	23.51	<=33.01	Pass
			50	24.10	-0.20	23.90	<=33.01	Pass
			99	23.86	-0.20	23.66	<=33.01	Pass
		50	0	22.96	-0.20	22.76	<=33.01	Pass
			25	22.94	-0.20	22.74	<=33.01	Pass
			50	22.95	-0.20	22.75	<=33.01	Pass
		100	0	22.92	-0.20	22.72	<=33.01	Pass
16QAM	2506	1	0	23.12	-0.20	22.92	<=33.01	Pass
			50	23.41	-0.20	23.21	<=33.01	Pass
			99	23.50	-0.20	23.30	<=33.01	Pass
		50	0	22.26	-0.20	22.06	<=33.01	Pass
			25	22.34	-0.20	22.14	<=33.01	Pass
			50	22.37	-0.20	22.17	<=33.01	Pass
		100	0	22.31	-0.20	22.11	<=33.01	Pass
	2593	1	0	22.95	-0.20	22.75	<=33.01	Pass
			50	23.04	-0.20	22.84	<=33.01	Pass
			99	22.71	-0.20	22.51	<=33.01	Pass
		50	0	22.11	-0.20	21.91	<=33.01	Pass
			25	22.10	-0.20	21.90	<=33.01	Pass
			50	22.03	-0.20	21.83	<=33.01	Pass
		100	0	22.11	-0.20	21.91	<=33.01	Pass
	2680	1	0	22.81	-0.20	22.61	<=33.01	Pass
			50	22.51	-0.20	22.31	<=33.01	Pass
			99	22.93	-0.20	22.73	<=33.01	Pass



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		50	0	21.95	-0.20	21.75	<=33.01	Pass
			25	21.99	-0.20	21.79	<=33.01	Pass
			50	21.99	-0.20	21.79	<=33.01	Pass
		100	0	21.99	-0.20	21.79	<=33.01	Pass
64QAM	2506	1	0	22.14	-0.20	21.94	<=33.01	Pass
			50	22.58	-0.20	22.38	<=33.01	Pass
			99	22.35	-0.20	22.15	<=33.01	Pass
		50	0	21.10	-0.20	20.90	<=33.01	Pass
			25	21.21	-0.20	21.01	<=33.01	Pass
			50	21.21	-0.20	21.01	<=33.01	Pass
		100	0	21.19	-0.20	20.99	<=33.01	Pass
	2593	1	0	21.66	-0.20	21.46	<=33.01	Pass
			50	22.35	-0.20	22.15	<=33.01	Pass
			99	21.86	-0.20	21.66	<=33.01	Pass
		50	0	20.99	-0.20	20.79	<=33.01	Pass
			25	21.02	-0.20	20.82	<=33.01	Pass
			50	20.94	-0.20	20.74	<=33.01	Pass
		100	0	21.01	-0.20	20.81	<=33.01	Pass
	2680	1	0	21.62	-0.20	21.42	<=33.01	Pass
			50	21.95	-0.20	21.75	<=33.01	Pass
			99	22.09	-0.20	21.89	<=33.01	Pass
		50	0	20.81	-0.20	20.61	<=33.01	Pass
			25	20.89	-0.20	20.69	<=33.01	Pass
			50	20.85	-0.20	20.65	<=33.01	Pass
		100	0	20.83	-0.20	20.63	<=33.01	Pass



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2. Frequency Stability

2.1 B41_5MHz

2.1.1 Test Result

Band: 41 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2498.5	25	0	20	3.6	-6.080	-0.0024	/	Pass
					3.84	-11.802	-0.0047	/	Pass
					4.3	2.632	0.0011	/	Pass
				-30	3.84	24.891	0.0100	/	Pass
				-20	3.84	40.898	0.0164	/	Pass
				-10	3.84	50.826	0.0203	/	Pass
				0	3.84	-1276.202	-0.5108	/	Pass
				10	3.84	437.350	0.1750	/	Pass
				30	3.84	437.393	0.1751	/	Pass
				40	3.84	438.752	0.1756	/	Pass
				50	3.84	444.017	0.1777	/	Pass
	2593	25	0	20	3.6	1.230	0.0005	/	Pass
					3.84	0.129	0.0000	/	Pass
					4.3	4.978	0.0019	/	Pass
				-30	3.84	11.687	0.0045	/	Pass
				-20	3.84	12.102	0.0047	/	Pass
				-10	3.84	20.986	0.0081	/	Pass
				0	3.84	28.539	0.0110	/	Pass
				10	3.84	28.138	0.0109	/	Pass
				30	3.84	24.076	0.0093	/	Pass
				40	3.84	52.872	0.0204	/	Pass
				50	3.84	55.146	0.0213	/	Pass
	2687.5	25	0	20	3.6	5.994	0.0022	/	Pass
					3.84	7.453	0.0028	/	Pass
					4.3	-4.578	-0.0017	/	Pass
				-30	3.84	-7.467	-0.0028	/	Pass
				-20	3.84	4.406	0.0016	/	Pass
				-10	3.84	10.142	0.0038	/	Pass
				0	3.84	9.556	0.0036	/	Pass
				10	3.84	17.395	0.0065	/	Pass
				30	3.84	30.742	0.0114	/	Pass
				40	3.84	41.013	0.0153	/	Pass
				50	3.84	45.505	0.0169	/	Pass
16QAM	2498.5	25	0	20	3.6	454.688	0.1820	/	Pass
					3.84	440.397	0.1763	/	Pass



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64QAM					4.3	451.012	0.1805	/	Pass
				-30	3.84	448.794	0.1796	/	Pass
				-20	3.84	455.403	0.1823	/	Pass
				-10	3.84	449.753	0.1800	/	Pass
				0	3.84	-21.844	-0.0087	/	Pass
				10	3.84	-20.614	-0.0083	/	Pass
				30	3.84	-23.117	-0.0093	/	Pass
				40	3.84	-20.814	-0.0083	/	Pass
				50	3.84	-22.402	-0.0090	/	Pass
	2593	25	0	20	3.6	52.500	0.0202	/	Pass
					3.84	56.648	0.0218	/	Pass
					4.3	-14.076	-0.0054	/	Pass
				-30	3.84	-9.484	-0.0037	/	Pass
				-20	3.84	-4.449	-0.0017	/	Pass
				-10	3.84	-12.074	-0.0047	/	Pass
				0	3.84	-15.764	-0.0061	/	Pass
				10	3.84	-1.373	-0.0005	/	Pass
				30	3.84	-6.766	-0.0026	/	Pass
				40	3.84	-14.405	-0.0056	/	Pass
				50	3.84	-6.552	-0.0025	/	Pass
	2687.5	25	0	20	3.6	57.850	0.0215	/	Pass
					3.84	48.180	0.0179	/	Pass
					4.3	44.832	0.0167	/	Pass
				-30	3.84	41.456	0.0154	/	Pass
				-20	3.84	39.411	0.0147	/	Pass
				-10	3.84	39.053	0.0145	/	Pass
				0	3.84	38.338	0.0143	/	Pass
				10	3.84	41.327	0.0154	/	Pass
				30	3.84	42.529	0.0158	/	Pass
				40	3.84	52.242	0.0194	/	Pass
				50	3.84	46.005	0.0171	/	Pass
	2498.5	25	0	20	3.6	-13.790	-0.0055	/	Pass
					3.84	-56.090	-0.0224	/	Pass
					4.3	-58.851	-0.0236	/	Pass
				-30	3.84	-60.596	-0.0243	/	Pass
				-20	3.84	-71.325	-0.0285	/	Pass
				-10	3.84	-66.290	-0.0265	/	Pass
				0	3.84	-12.646	-0.0051	/	Pass
				10	3.84	-24.891	-0.0100	/	Pass
				30	3.84	-16.537	-0.0066	/	Pass
				40	3.84	-22.030	-0.0088	/	Pass
				50	3.84	-11.716	-0.0047	/	Pass
	2593	25	0	20	3.6	-20.714	-0.0080	/	Pass
					3.84	-6.337	-0.0024	/	Pass
					4.3	-13.304	-0.0051	/	Pass
				-30	3.84	-8.454	-0.0033	/	Pass
				-20	3.84	0.629	0.0002	/	Pass
				-10	3.84	-9.699	-0.0037	/	Pass



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				0	3.84	-17.238	-0.0066	/	Pass
				10	3.84	-12.288	-0.0047	/	Pass
				30	3.84	-1.230	-0.0005	/	Pass
				40	3.84	-8.969	-0.0035	/	Pass
				50	3.84	-3.991	-0.0015	/	Pass
	2687.5	25	0	20	3.6	40.326	0.0150	/	Pass
					3.84	49.024	0.0182	/	Pass
					4.3	55.275	0.0206	/	Pass
				-30	3.84	34.504	0.0128	/	Pass
				-20	3.84	40.054	0.0149	/	Pass
				-10	3.84	26.979	0.0100	/	Pass
				0	3.84	26.236	0.0098	/	Pass
				10	3.84	21.014	0.0078	/	Pass
				30	3.84	14.248	0.0053	/	Pass
				40	3.84	26.765	0.0100	/	Pass
				50	3.84	3.562	0.0013	/	Pass



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2.2 B41_10MHz

2.2.1 Test Result

Band: 41 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2501	50	0	20	3.6	-4.063	-0.0016	/	Pass
					3.84	-16.122	-0.0064	/	Pass
					4.3	-2.718	-0.0011	/	Pass
				-30	3.84	-4.864	-0.0019	/	Pass
				-20	3.84	-16.952	-0.0068	/	Pass
				-10	3.84	-3.090	-0.0012	/	Pass
				0	3.84	-6.680	-0.0027	/	Pass
				10	3.84	-8.254	-0.0033	/	Pass
				30	3.84	-8.039	-0.0032	/	Pass
				40	3.84	-6.051	-0.0024	/	Pass
				50	3.84	-11.830	-0.0047	/	Pass
	2593	50	0	20	3.6	-14.119	-0.0054	/	Pass
					3.84	-5.522	-0.0021	/	Pass
					4.3	-5.121	-0.0020	/	Pass
				-30	3.84	-6.323	-0.0024	/	Pass
				-20	3.84	0.043	0.0000	/	Pass
				-10	3.84	-7.825	-0.0030	/	Pass
				0	3.84	-1.817	-0.0007	/	Pass
				10	3.84	-5.178	-0.0020	/	Pass
				30	3.84	-6.809	-0.0026	/	Pass
				40	3.84	2.346	0.0009	/	Pass
				50	3.84	-3.061	-0.0012	/	Pass
	2685	50	0	20	3.6	-11.516	-0.0043	/	Pass
					3.84	-7.281	-0.0027	/	Pass
					4.3	-6.065	-0.0023	/	Pass
				-30	3.84	0.329	0.0001	/	Pass
				-20	3.84	1.631	0.0006	/	Pass
				-10	3.84	-4.821	-0.0018	/	Pass
				0	3.84	-9.027	-0.0034	/	Pass
				10	3.84	-9.155	-0.0034	/	Pass
				30	3.84	-6.394	-0.0024	/	Pass
				40	3.84	-3.362	-0.0013	/	Pass
				50	3.84	-12.946	-0.0048	/	Pass
16QAM	2501	50	0	20	3.6	-12.331	-0.0049	/	Pass
					3.84	-8.740	-0.0035	/	Pass
					4.3	-0.730	-0.0003	/	Pass
				-30	3.84	-13.719	-0.0055	/	Pass
				-20	3.84	-7.825	-0.0031	/	Pass



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				-10	3.84	-11.501	-0.0046	/	Pass
				0	3.84	-7.639	-0.0031	/	Pass
				10	3.84	-7.939	-0.0032	/	Pass
				30	3.84	-10.171	-0.0041	/	Pass
				40	3.84	-1.431	-0.0006	/	Pass
				50	3.84	-6.008	-0.0024	/	Pass
	2593	50	0	20	3.6	-6.795	-0.0026	/	Pass
					3.84	2.975	0.0011	/	Pass
					4.3	-2.732	-0.0011	/	Pass
				-30	3.84	-4.063	-0.0016	/	Pass
				-20	3.84	-5.779	-0.0022	/	Pass
				-10	3.84	-9.856	-0.0038	/	Pass
				0	3.84	-6.509	-0.0025	/	Pass
				10	3.84	-7.639	-0.0029	/	Pass
				30	3.84	-9.799	-0.0038	/	Pass
				40	3.84	-12.345	-0.0048	/	Pass
				50	3.84	-6.909	-0.0027	/	Pass
	2685	50	0	20	3.6	-8.111	-0.0030	/	Pass
					3.84	-9.456	-0.0035	/	Pass
					4.3	-6.294	-0.0023	/	Pass
				-30	3.84	-21.029	-0.0078	/	Pass
				-20	3.84	-5.150	-0.0019	/	Pass
				-10	3.84	-14.706	-0.0055	/	Pass
				0	3.84	-9.384	-0.0035	/	Pass
				10	3.84	-2.904	-0.0011	/	Pass
				30	3.84	-4.964	-0.0018	/	Pass
				40	3.84	0.401	0.0001	/	Pass
				50	3.84	-12.445	-0.0046	/	Pass
64QAM	2501	50	0	20	3.6	-7.539	-0.0030	/	Pass
					3.84	-6.609	-0.0026	/	Pass
					4.3	-13.862	-0.0055	/	Pass
				-30	3.84	-3.605	-0.0014	/	Pass
				-20	3.84	-9.971	-0.0040	/	Pass
				-10	3.84	-6.909	-0.0028	/	Pass
				0	3.84	-3.991	-0.0016	/	Pass
				10	3.84	-14.863	-0.0059	/	Pass
				30	3.84	-6.623	-0.0026	/	Pass
				40	3.84	-7.668	-0.0031	/	Pass
				50	3.84	-12.174	-0.0049	/	Pass
	2593	50	0	20	3.6	1.631	0.0006	/	Pass
					3.84	-14.720	-0.0057	/	Pass
					4.3	-11.430	-0.0044	/	Pass
				-30	3.84	-4.535	-0.0017	/	Pass
				-20	3.84	-8.197	-0.0032	/	Pass
				-10	3.84	-4.163	-0.0016	/	Pass
				0	3.84	-5.808	-0.0022	/	Pass
				10	3.84	-3.705	-0.0014	/	Pass
				30	3.84	-7.353	-0.0028	/	Pass



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	2685	50	0	40	3.84	-8.368	-0.0032	/	Pass
				50	3.84	-0.458	-0.0002	/	Pass
				20	3.6	-4.263	-0.0016	/	Pass
					3.84	-16.723	-0.0062	/	Pass
					4.3	-9.484	-0.0035	/	Pass
				-30	3.84	-12.302	-0.0046	/	Pass
				-20	3.84	-13.061	-0.0049	/	Pass
				-10	3.84	-7.954	-0.0030	/	Pass
				0	3.84	-10.614	-0.0040	/	Pass
				10	3.84	-9.227	-0.0034	/	Pass
				30	3.84	-3.276	-0.0012	/	Pass
				40	3.84	-12.002	-0.0045	/	Pass
				50	3.84	-12.417	-0.0046	/	Pass



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2.3 B41_15MHz

2.3.1 Test Result

Band: 41 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2503.5	75	0	20	3.6	-10.371	-0.0041	/	Pass
					3.84	1.259	0.0005	/	Pass
					4.3	-14.720	-0.0059	/	Pass
				-30	3.84	-8.655	-0.0035	/	Pass
				-20	3.84	-12.889	-0.0051	/	Pass
				-10	3.84	-2.961	-0.0012	/	Pass
				0	3.84	-5.779	-0.0023	/	Pass
				10	3.84	-7.296	-0.0029	/	Pass
				30	3.84	-11.716	-0.0047	/	Pass
				40	3.84	-11.816	-0.0047	/	Pass
				50	3.84	0.057	0.0000	/	Pass
	2593	75	0	20	3.6	-6.523	-0.0025	/	Pass
					3.84	-1.659	-0.0006	/	Pass
					4.3	-4.463	-0.0017	/	Pass
				-30	3.84	-0.172	-0.0001	/	Pass
				-20	3.84	-7.167	-0.0028	/	Pass
				-10	3.84	-6.523	-0.0025	/	Pass
				0	3.84	-5.593	-0.0022	/	Pass
				10	3.84	-8.111	-0.0031	/	Pass
				30	3.84	-8.955	-0.0035	/	Pass
				40	3.84	-7.010	-0.0027	/	Pass
				50	3.84	-10.114	-0.0039	/	Pass
	2682.5	75	0	20	3.6	-13.733	-0.0051	/	Pass
					3.84	-7.138	-0.0027	/	Pass
					4.3	-6.008	-0.0022	/	Pass
				-30	3.84	-6.151	-0.0023	/	Pass
				-20	3.84	-8.097	-0.0030	/	Pass
				-10	3.84	-11.501	-0.0043	/	Pass
				0	3.84	-2.632	-0.0010	/	Pass
				10	3.84	-11.673	-0.0044	/	Pass
				30	3.84	-6.366	-0.0024	/	Pass
				40	3.84	-21.029	-0.0078	/	Pass
				50	3.84	-1.373	-0.0005	/	Pass
16QAM	2503.5	75	0	20	3.6	-7.839	-0.0031	/	Pass
					3.84	-5.393	-0.0022	/	Pass
					4.3	-9.842	-0.0039	/	Pass
				-30	3.84	-2.060	-0.0008	/	Pass
				-20	3.84	-15.922	-0.0064	/	Pass



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				-10	3.84	-7.739	-0.0031	/	Pass
				0	3.84	-6.166	-0.0025	/	Pass
				10	3.84	-9.756	-0.0039	/	Pass
				30	3.84	-8.612	-0.0034	/	Pass
				40	3.84	-7.339	-0.0029	/	Pass
				50	3.84	-7.424	-0.0030	/	Pass
	2593	75	0	20	3.6	-6.924	-0.0027	/	Pass
					3.84	-5.665	-0.0022	/	Pass
					4.3	0.944	0.0004	/	Pass
				-30	3.84	-2.532	-0.0010	/	Pass
				-20	3.84	-9.513	-0.0037	/	Pass
				-10	3.84	-7.896	-0.0030	/	Pass
				0	3.84	-2.375	-0.0009	/	Pass
				10	3.84	-2.131	-0.0008	/	Pass
				30	3.84	0.458	0.0002	/	Pass
				40	3.84	-4.563	-0.0018	/	Pass
				50	3.84	-11.659	-0.0045	/	Pass
	2682.5	75	0	20	3.6	-4.234	-0.0016	/	Pass
					3.84	-12.474	-0.0047	/	Pass
					4.3	-10.371	-0.0039	/	Pass
				-30	3.84	-1.774	-0.0007	/	Pass
				-20	3.84	-9.727	-0.0036	/	Pass
				-10	3.84	-8.554	-0.0032	/	Pass
				0	3.84	-7.424	-0.0028	/	Pass
				10	3.84	-13.633	-0.0051	/	Pass
				30	3.84	-11.344	-0.0042	/	Pass
				40	3.84	-8.655	-0.0032	/	Pass
				50	3.84	-13.747	-0.0051	/	Pass
64QAM	2503.5	75	0	20	3.6	-14.148	-0.0057	/	Pass
					3.84	-8.140	-0.0033	/	Pass
					4.3	-16.093	-0.0064	/	Pass
				-30	3.84	-10.557	-0.0042	/	Pass
				-20	3.84	-7.997	-0.0032	/	Pass
				-10	3.84	-10.128	-0.0040	/	Pass
				0	3.84	-11.301	-0.0045	/	Pass
				10	3.84	-10.700	-0.0043	/	Pass
				30	3.84	-7.453	-0.0030	/	Pass
				40	3.84	-8.140	-0.0033	/	Pass
				50	3.84	-6.623	-0.0026	/	Pass
	2593	75	0	20	3.6	-12.288	-0.0047	/	Pass
					3.84	0.315	0.0001	/	Pass
					4.3	-0.272	-0.0001	/	Pass
				-30	3.84	-6.080	-0.0023	/	Pass
				-20	3.84	-7.238	-0.0028	/	Pass
				-10	3.84	-10.014	-0.0039	/	Pass
				0	3.84	1.588	0.0006	/	Pass
				10	3.84	-4.220	-0.0016	/	Pass
				30	3.84	-4.091	-0.0016	/	Pass



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2682.5	75	0	40	3.84	-6.080	-0.0023	/	Pass
			50	3.84	-2.203	-0.0008	/	Pass
			20	3.6	-6.824	-0.0025	/	Pass
				3.84	-10.700	-0.0040	/	Pass
				4.3	-13.561	-0.0051	/	Pass
			-30	3.84	-2.160	-0.0008	/	Pass
			-20	3.84	-5.522	-0.0021	/	Pass
			-10	3.84	-1.659	-0.0006	/	Pass
			0	3.84	-8.297	-0.0031	/	Pass
			10	3.84	-4.349	-0.0016	/	Pass
			30	3.84	-1.030	-0.0004	/	Pass
			40	3.84	-15.092	-0.0056	/	Pass
			50	3.84	-3.591	-0.0013	/	Pass



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2.4 B41_20MHz

2.4.1 Test Result

Band: 41 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2506	100	0	20	3.6	-16.823	-0.0067	/	Pass
					3.84	-8.225	-0.0033	/	Pass
					4.3	-5.465	-0.0022	/	Pass
				-30	3.84	-1.931	-0.0008	/	Pass
				-20	3.84	-7.796	-0.0031	/	Pass
				-10	3.84	-3.934	-0.0016	/	Pass
				0	3.84	-7.939	-0.0032	/	Pass
				10	3.84	-9.513	-0.0038	/	Pass
				30	3.84	-0.801	-0.0003	/	Pass
				40	3.84	-10.085	-0.0040	/	Pass
				50	3.84	-7.296	-0.0029	/	Pass
	2593	100	0	20	3.6	-1.574	-0.0006	/	Pass
					3.84	-7.367	-0.0028	/	Pass
					4.3	-5.794	-0.0022	/	Pass
				-30	3.84	-10.371	-0.0040	/	Pass
				-20	3.84	-7.467	-0.0029	/	Pass
				-10	3.84	4.735	0.0018	/	Pass
				0	3.84	-4.406	-0.0017	/	Pass
				10	3.84	-6.123	-0.0024	/	Pass
				30	3.84	-11.129	-0.0043	/	Pass
				40	3.84	-13.390	-0.0052	/	Pass
				50	3.84	-1.888	-0.0007	/	Pass
	2680	100	0	20	3.6	-11.702	-0.0044	/	Pass
					3.84	-16.665	-0.0062	/	Pass
					4.3	-10.915	-0.0041	/	Pass
				-30	3.84	-9.298	-0.0035	/	Pass
				-20	3.84	-7.510	-0.0028	/	Pass
				-10	3.84	-11.458	-0.0043	/	Pass
				0	3.84	-7.052	-0.0026	/	Pass
				10	3.84	-15.235	-0.0057	/	Pass
				30	3.84	-12.231	-0.0046	/	Pass
				40	3.84	-14.777	-0.0055	/	Pass
16QAM	2506	100	0	20	3.6	-10.171	-0.0041	/	Pass
					3.84	-5.522	-0.0022	/	Pass
					4.3	-15.221	-0.0061	/	Pass
				-30	3.84	-1.760	-0.0007	/	Pass
				-20	3.84	-14.091	-0.0056	/	Pass



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				-10	3.84	-5.021	-0.0020	/	Pass
				0	3.84	-11.272	-0.0045	/	Pass
				10	3.84	-9.584	-0.0038	/	Pass
				30	3.84	-10.700	-0.0043	/	Pass
				40	3.84	-1.187	-0.0005	/	Pass
				50	3.84	-8.883	-0.0035	/	Pass
	2593	100	0	20	3.6	5.078	0.0020	/	Pass
					3.84	-1.831	-0.0007	/	Pass
					4.3	1.159	0.0004	/	Pass
				-30	3.84	3.719	0.0014	/	Pass
				-20	3.84	-7.124	-0.0027	/	Pass
				-10	3.84	-5.236	-0.0020	/	Pass
				0	3.84	-10.858	-0.0042	/	Pass
				10	3.84	-4.678	-0.0018	/	Pass
				30	3.84	-5.465	-0.0021	/	Pass
				40	3.84	-11.687	-0.0045	/	Pass
				50	3.84	-7.939	-0.0031	/	Pass
	2680	100	0	20	3.6	-3.319	-0.0012	/	Pass
					3.84	-15.020	-0.0056	/	Pass
					4.3	-8.140	-0.0030	/	Pass
				-30	3.84	-8.698	-0.0032	/	Pass
				-20	3.84	-7.238	-0.0027	/	Pass
				-10	3.84	-22.287	-0.0083	/	Pass
				0	3.84	-6.080	-0.0023	/	Pass
				10	3.84	-7.582	-0.0028	/	Pass
				30	3.84	-6.437	-0.0024	/	Pass
				40	3.84	-8.426	-0.0031	/	Pass
				50	3.84	-8.411	-0.0031	/	Pass
64QAM	2506	100	0	20	3.6	-7.210	-0.0029	/	Pass
					3.84	-5.980	-0.0024	/	Pass
					4.3	1.173	0.0005	/	Pass
				-30	3.84	-11.659	-0.0047	/	Pass
				-20	3.84	-10.114	-0.0040	/	Pass
				-10	3.84	1.373	0.0005	/	Pass
				0	3.84	-7.997	-0.0032	/	Pass
				10	3.84	-10.657	-0.0043	/	Pass
				30	3.84	-4.635	-0.0018	/	Pass
				40	3.84	-3.834	-0.0015	/	Pass
				50	3.84	-0.286	-0.0001	/	Pass
	2593	100	0	20	3.6	-11.501	-0.0044	/	Pass
					3.84	-6.666	-0.0026	/	Pass
					4.3	-6.523	-0.0025	/	Pass
				-30	3.84	-11.230	-0.0043	/	Pass
				-20	3.84	-8.984	-0.0035	/	Pass
				-10	3.84	-2.060	-0.0008	/	Pass
				0	3.84	-3.948	-0.0015	/	Pass
				10	3.84	-5.722	-0.0022	/	Pass
				30	3.84	-5.951	-0.0023	/	Pass



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2680	100	0	40	3.84	-1.431	-0.0006	/	Pass
			50	3.84	-12.989	-0.0050	/	Pass
			20	3.6	-11.516	-0.0043	/	Pass
				3.84	-5.164	-0.0019	/	Pass
				4.3	-8.368	-0.0031	/	Pass
			-30	3.84	-14.863	-0.0055	/	Pass
			-20	3.84	-3.405	-0.0013	/	Pass
			-10	3.84	-11.587	-0.0043	/	Pass
			0	3.84	-9.069	-0.0034	/	Pass
			10	3.84	-9.928	-0.0037	/	Pass
			30	3.84	-5.636	-0.0021	/	Pass
			40	3.84	-6.294	-0.0023	/	Pass
			50	3.84	-9.770	-0.0036	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band41_OBW

3.1.1 Test Result

Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2498.5	25	0	4.554	/	Pass
		2593	25	0	4.544	/	Pass
		2687.5	25	0	4.548	/	Pass
	16QAM	2498.5	25	0	4.545	/	Pass
		2593	25	0	4.569	/	Pass
		2687.5	25	0	4.532	/	Pass
	64QAM	2498.5	25	0	4.534	/	Pass
		2593	25	0	4.553	/	Pass
		2687.5	25	0	4.552	/	Pass
10	QPSK	2501	50	0	9.044	/	Pass
		2593	50	0	9.056	/	Pass
		2685	50	0	9.086	/	Pass
	16QAM	2501	50	0	9.081	/	Pass
		2593	50	0	9.056	/	Pass
		2685	50	0	9.067	/	Pass
	64QAM	2501	50	0	9.058	/	Pass
		2593	50	0	9.053	/	Pass
		2685	50	0	9.074	/	Pass
15	QPSK	2503.5	75	0	13.620	/	Pass
		2593	75	0	13.568	/	Pass
		2682.5	75	0	13.561	/	Pass
	16QAM	2503.5	75	0	13.575	/	Pass
		2593	75	0	13.609	/	Pass
		2682.5	75	0	13.625	/	Pass
	64QAM	2503.5	75	0	13.576	/	Pass
		2593	75	0	13.606	/	Pass
		2682.5	75	0	13.627	/	Pass
20	QPSK	2506	100	0	18.088	/	Pass
		2593	100	0	18.034	/	Pass
		2680	100	0	18.119	/	Pass
	16QAM	2506	100	0	18.078	/	Pass
		2593	100	0	18.089	/	Pass
		2680	100	0	18.115	/	Pass
	64QAM	2506	100	0	18.058	/	Pass
		2593	100	0	18.093	/	Pass
		2680	100	0	18.161	/	Pass



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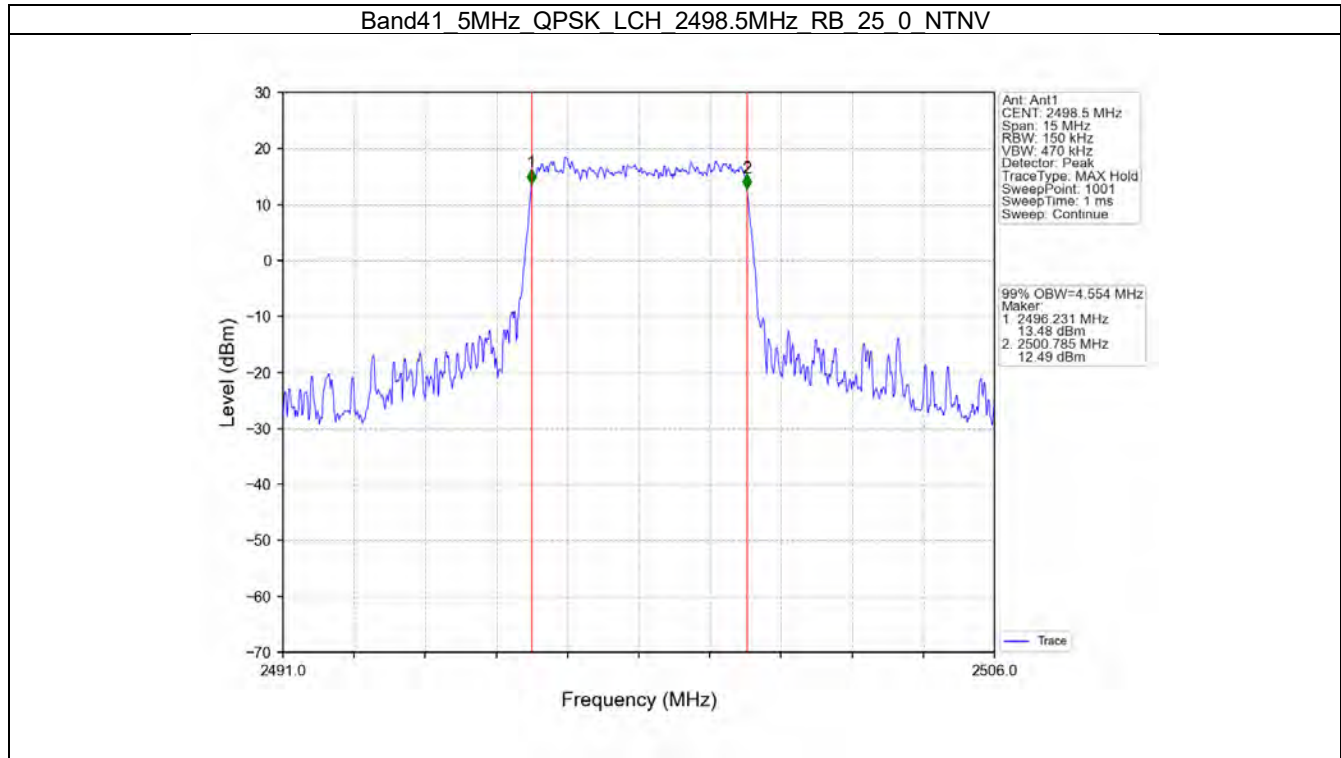
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3.1.2 Test Graph



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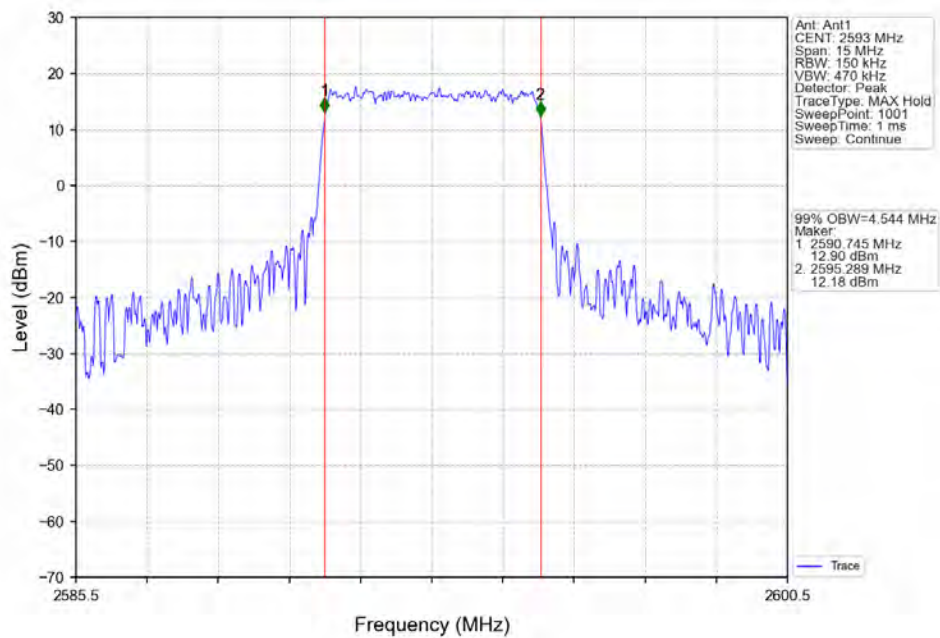
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Band41_5MHz_QPSK_MCH_2593MHz_RB_25_0_NTNV



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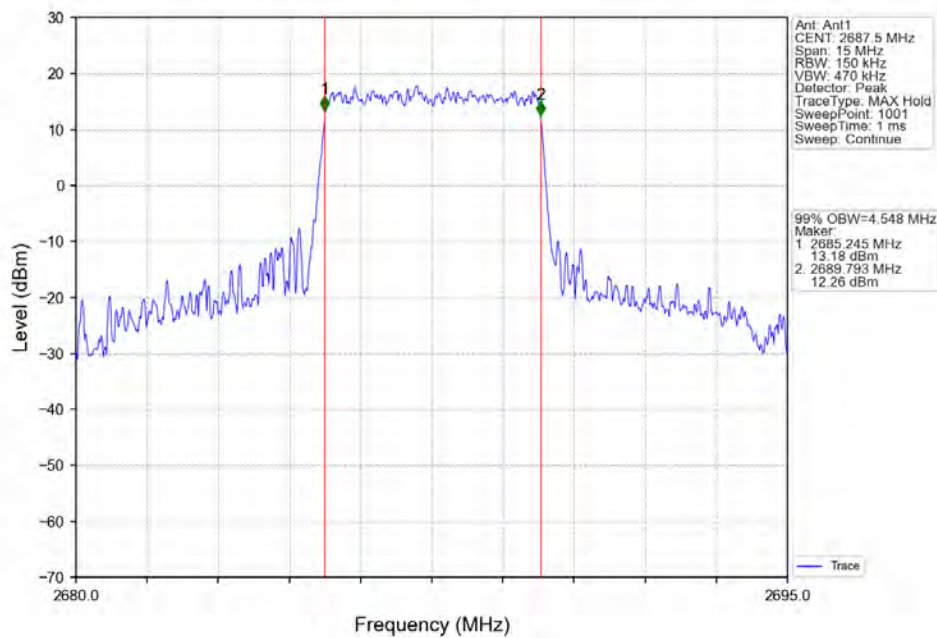
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Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV



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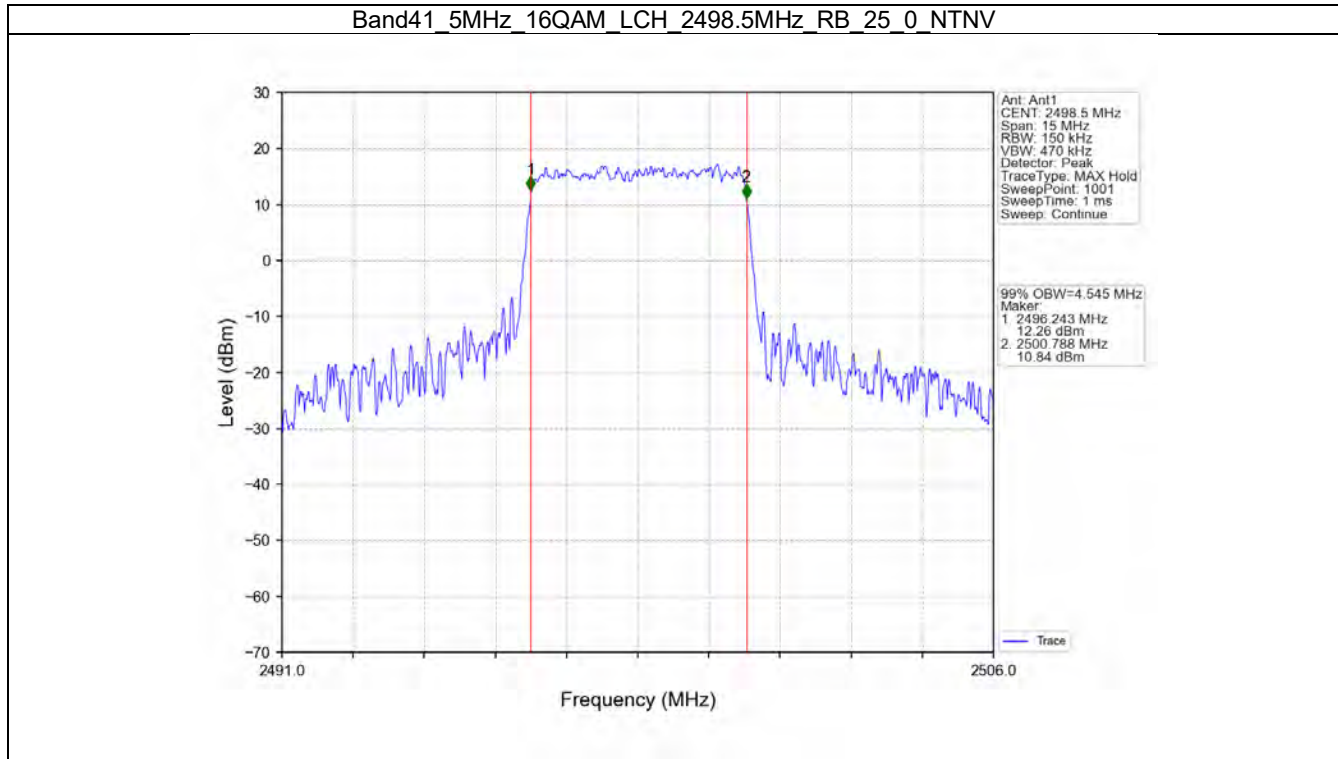


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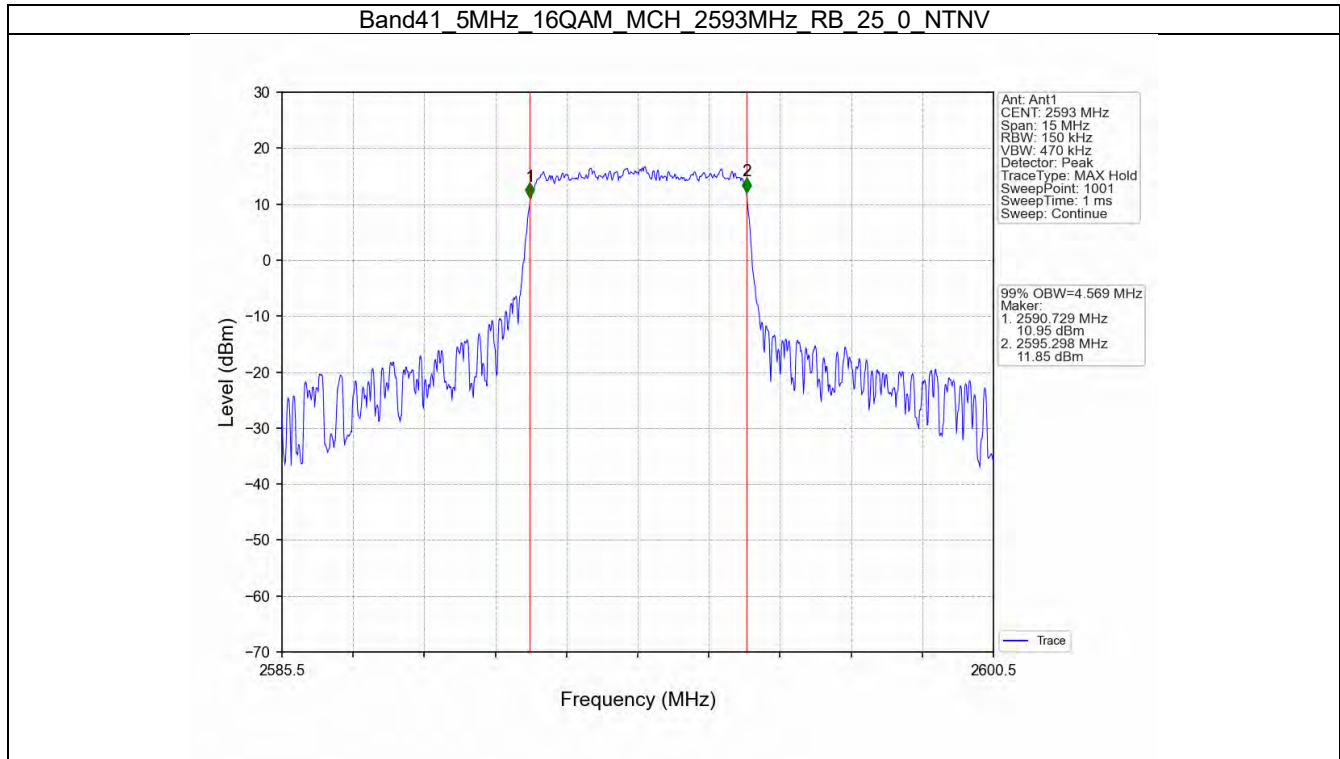


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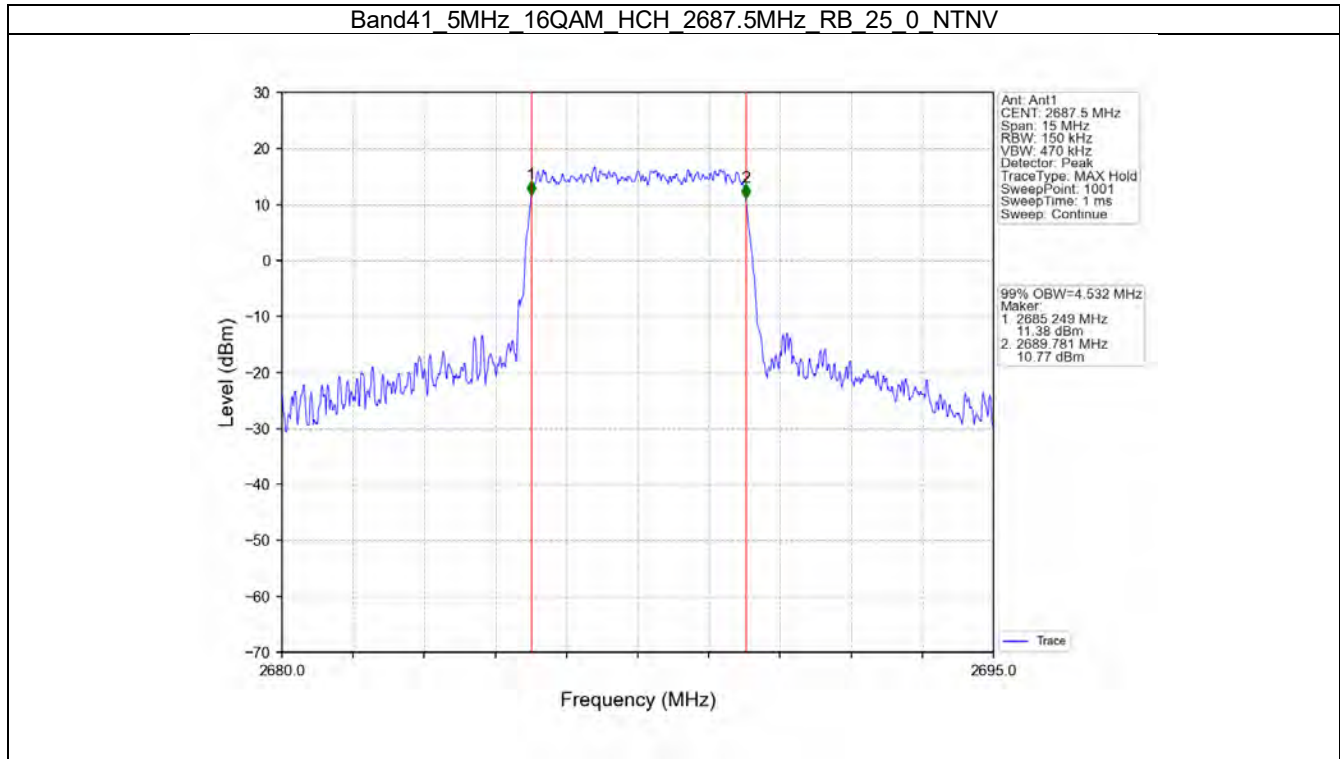


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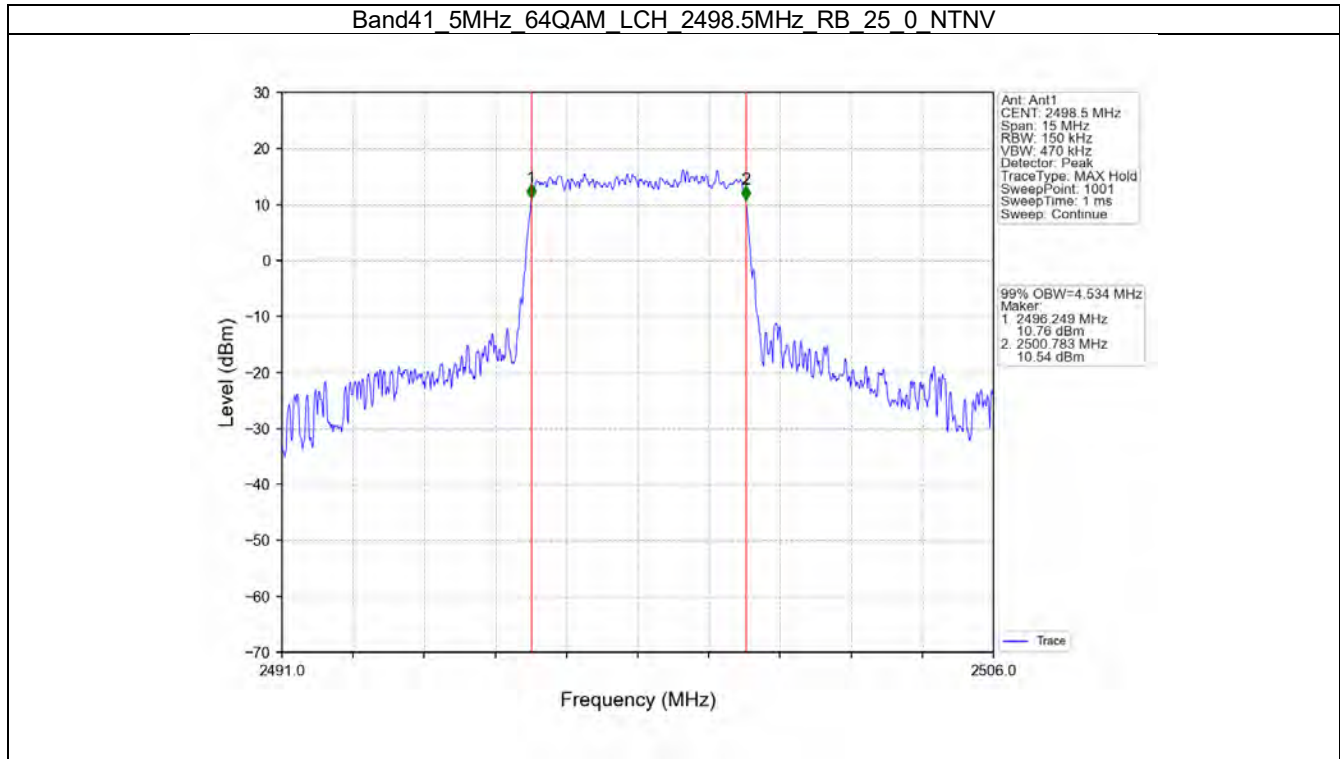


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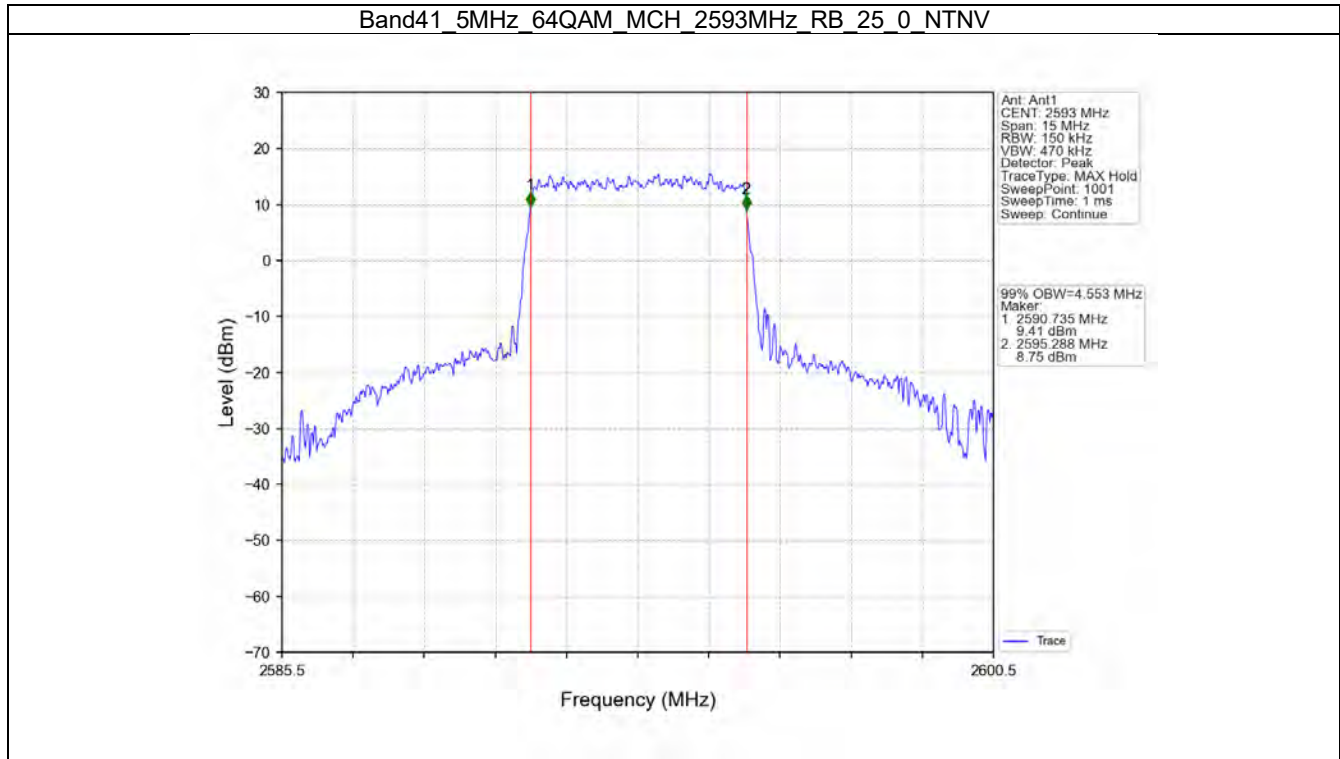


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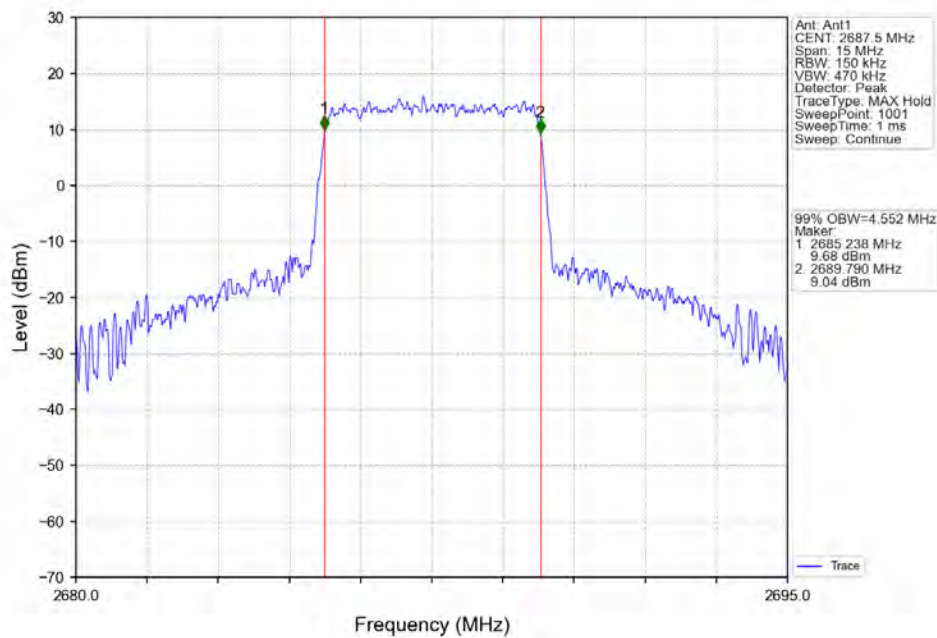
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Band41_5MHz_64QAM_HCH_2687.5MHz_RB_25_0_NTNV



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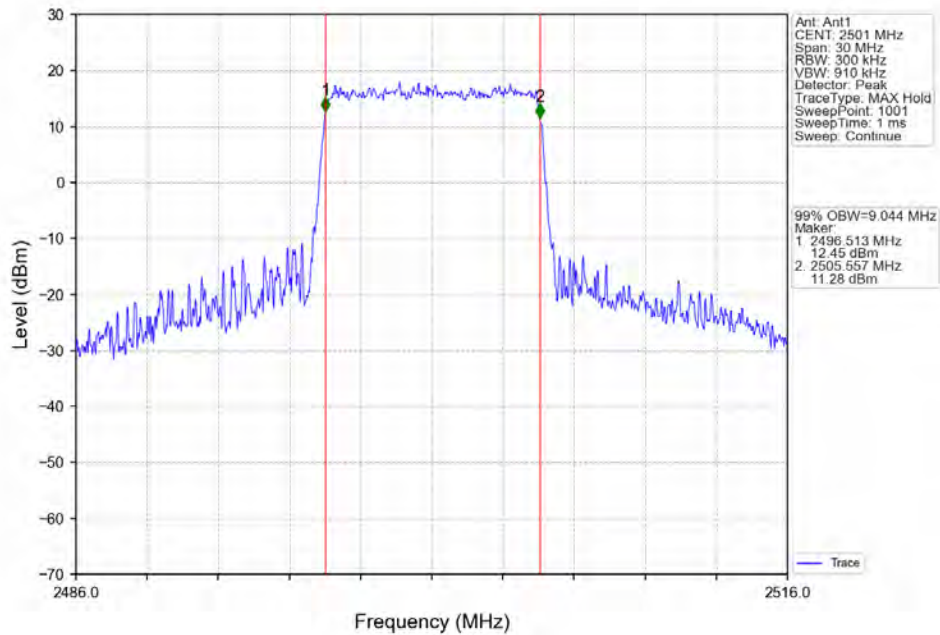
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Band41_10MHz_QPSK_LCH_2501MHz_RB_50_0_NTNV



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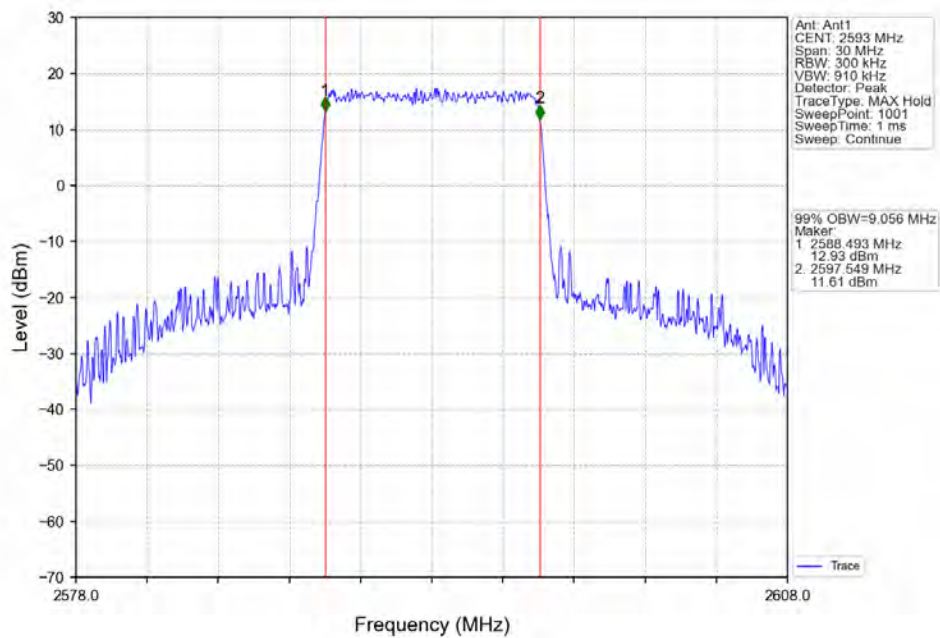
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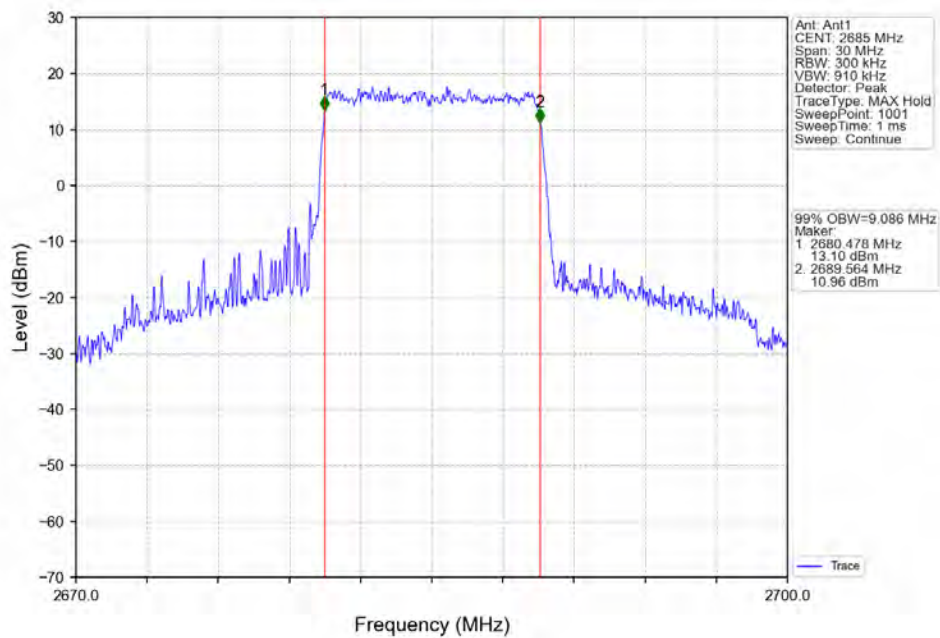
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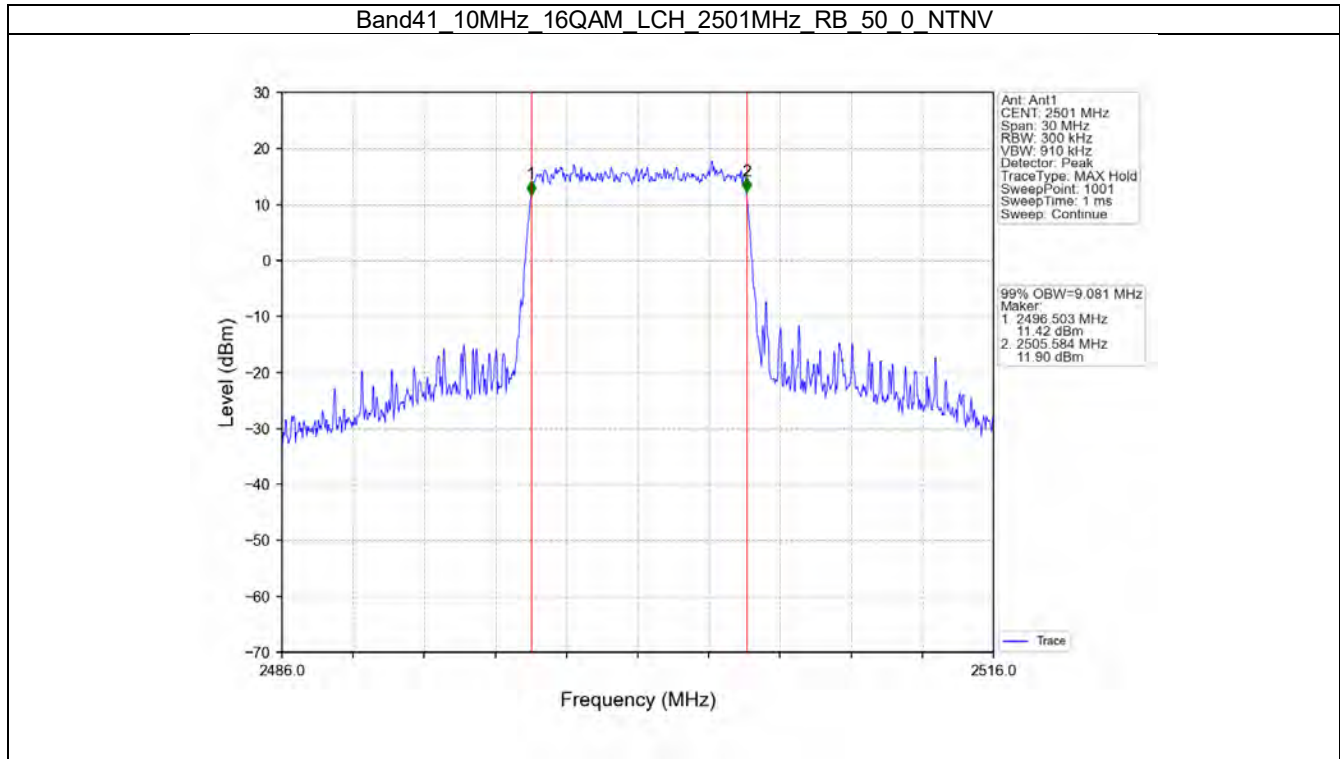


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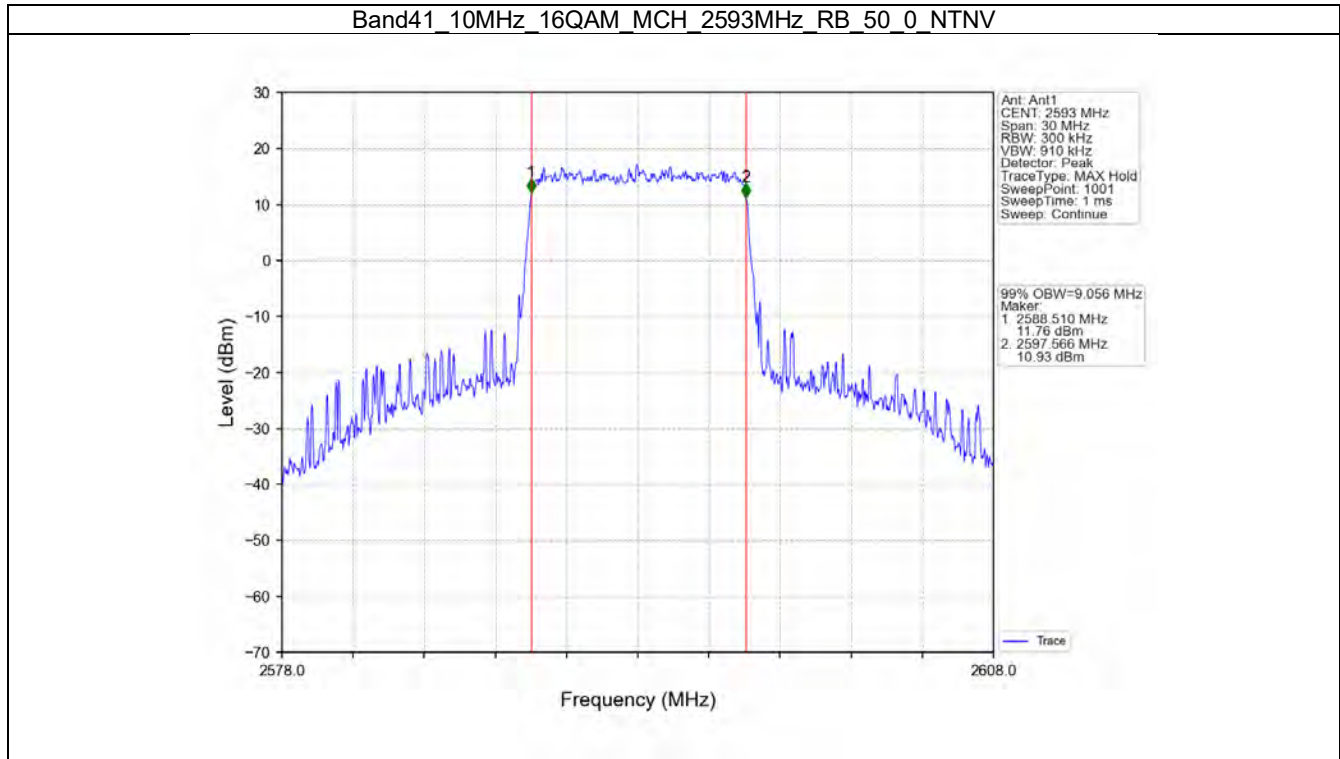


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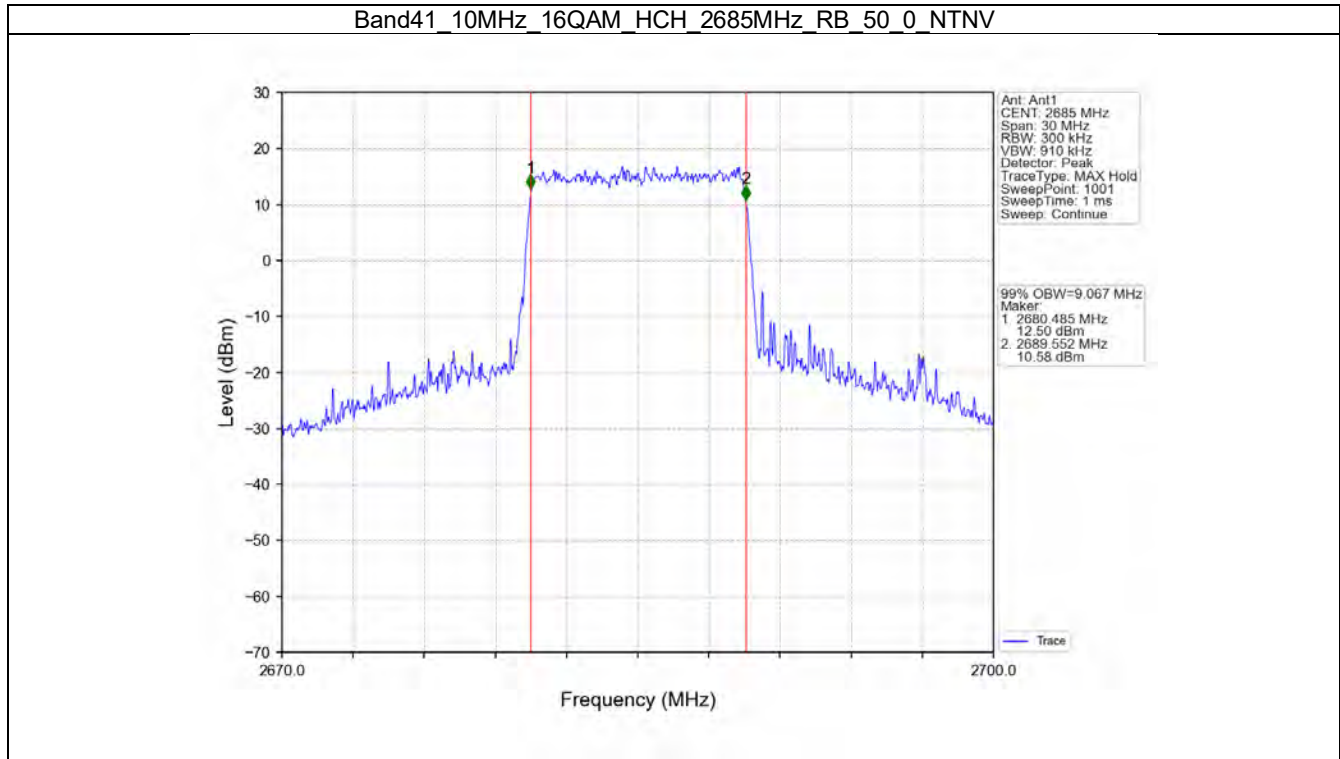


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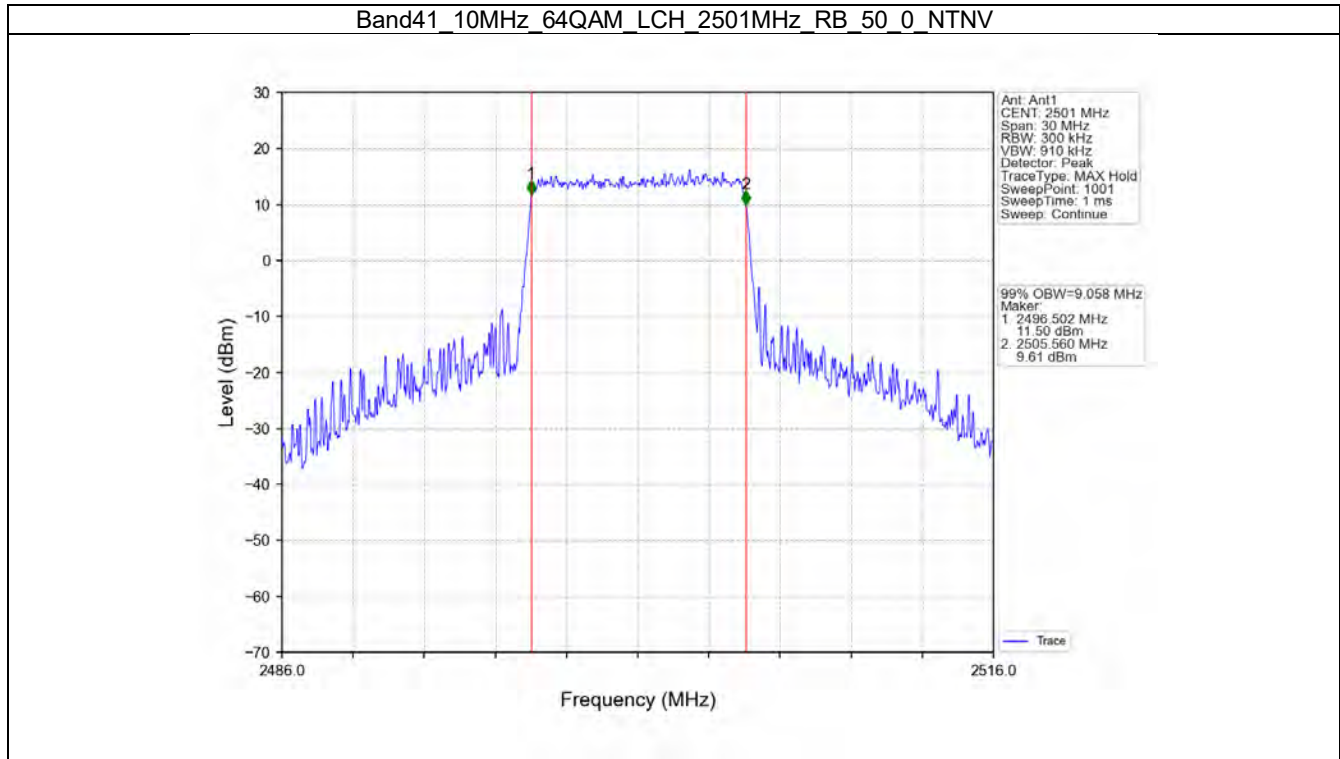


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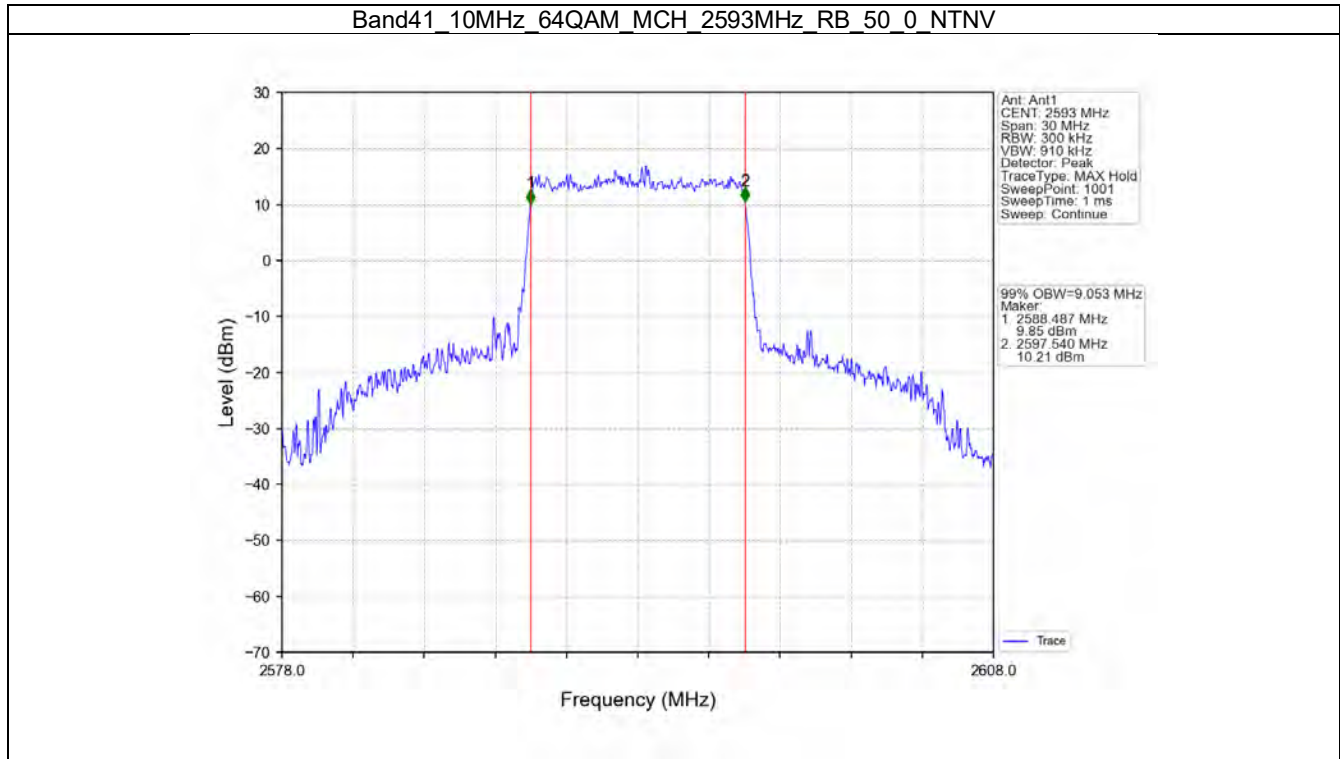


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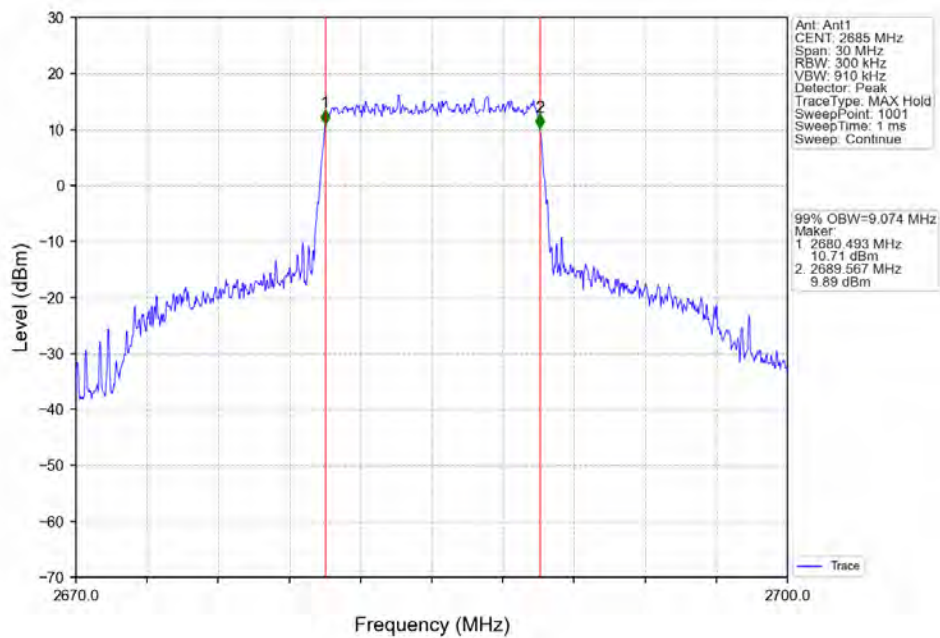
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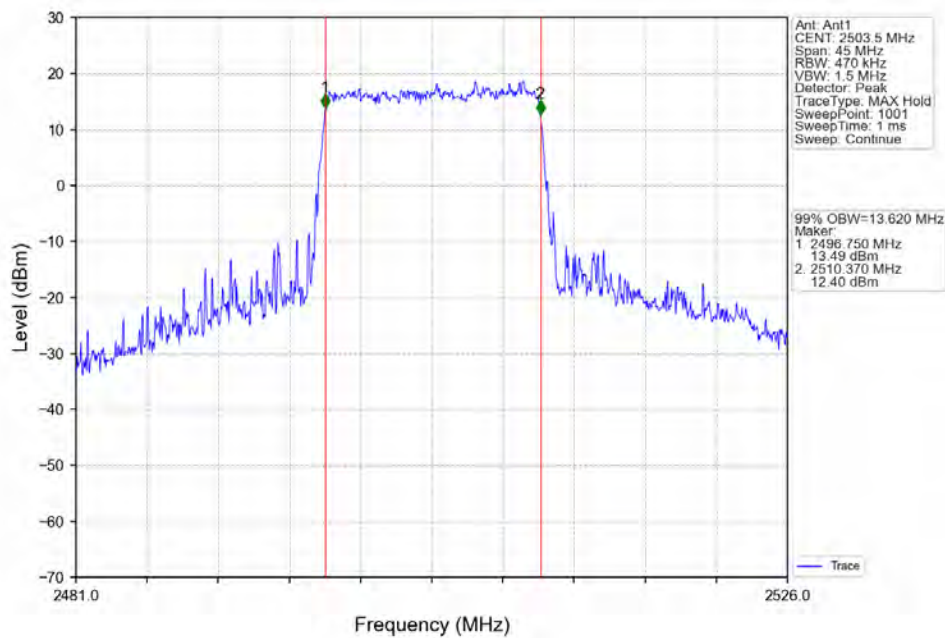
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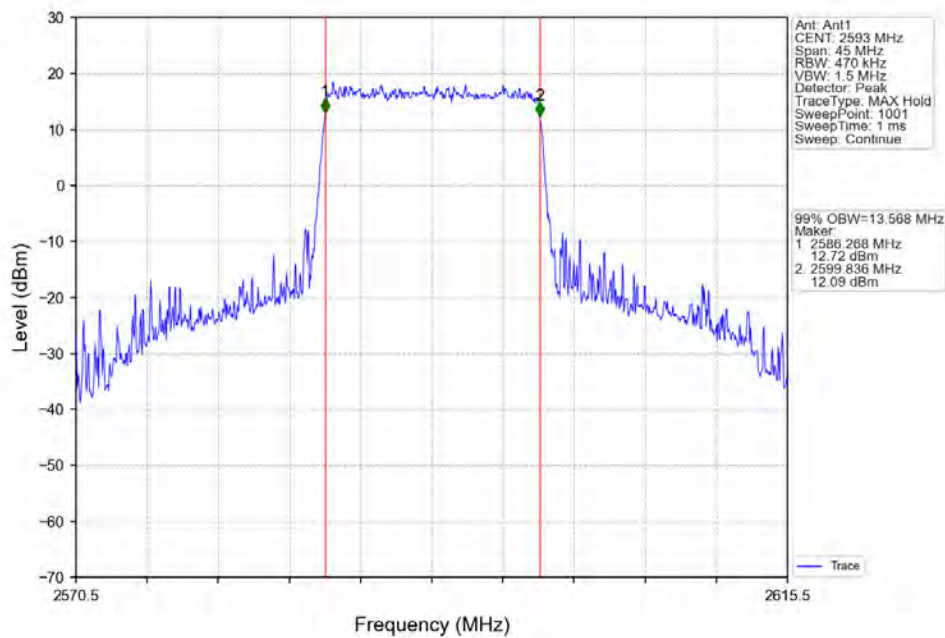
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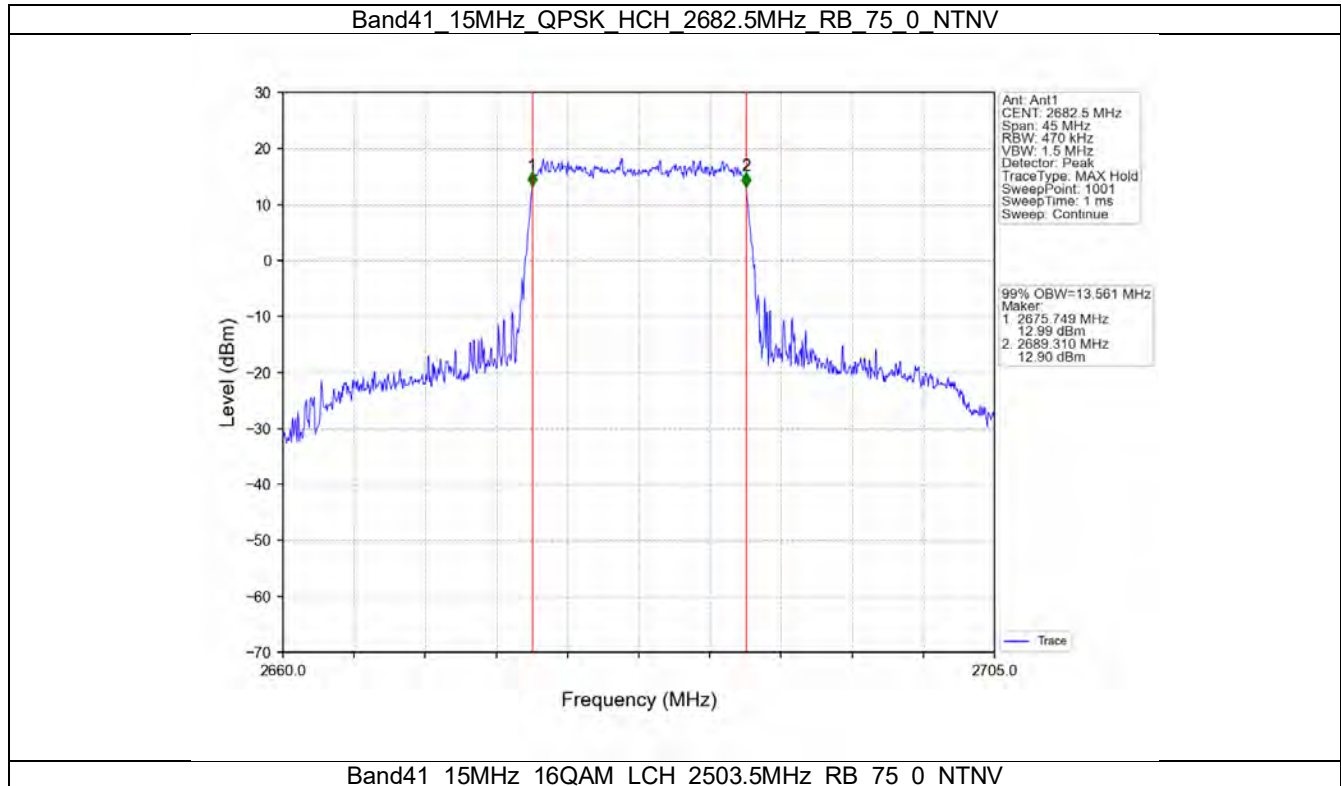


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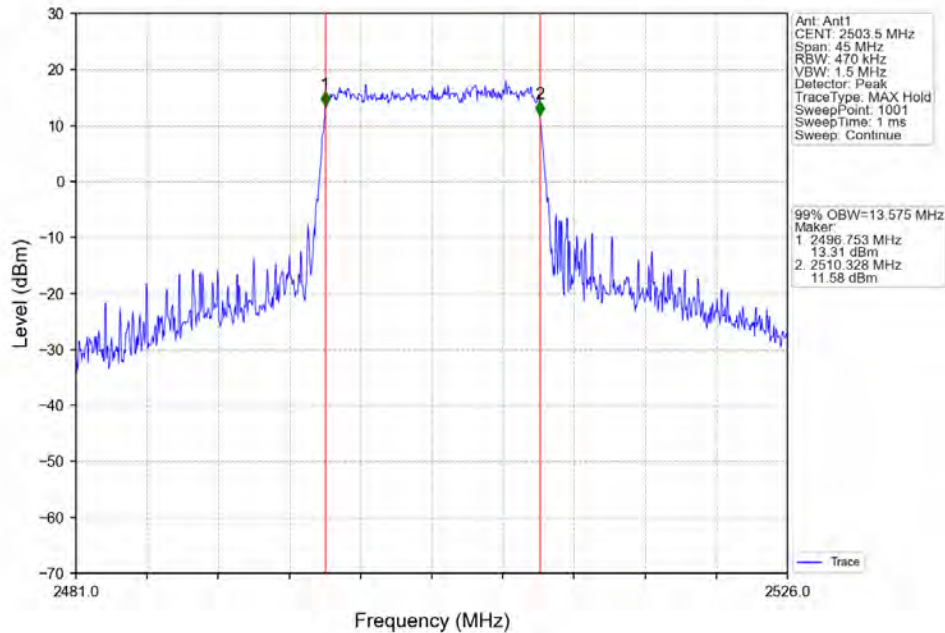


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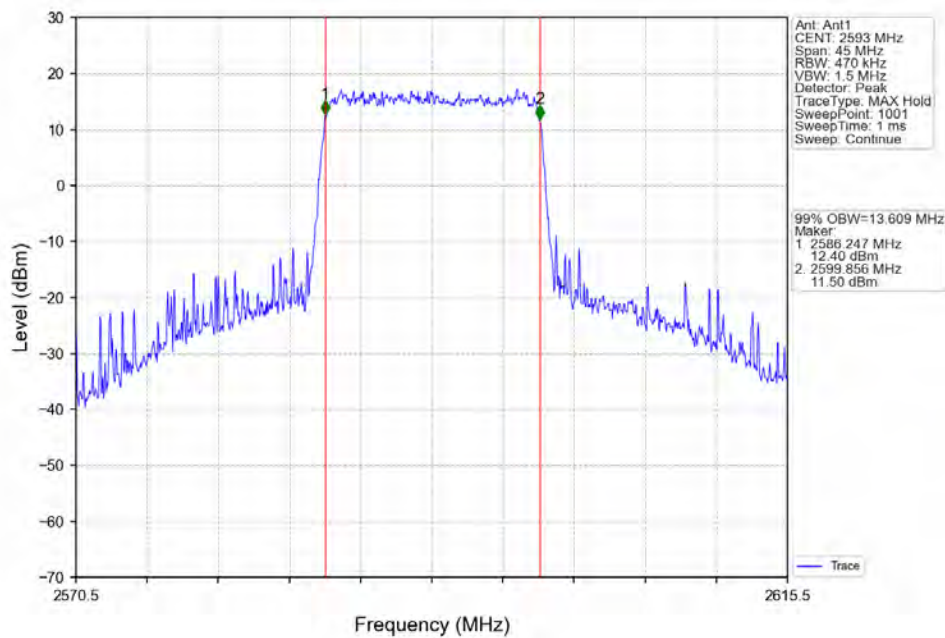
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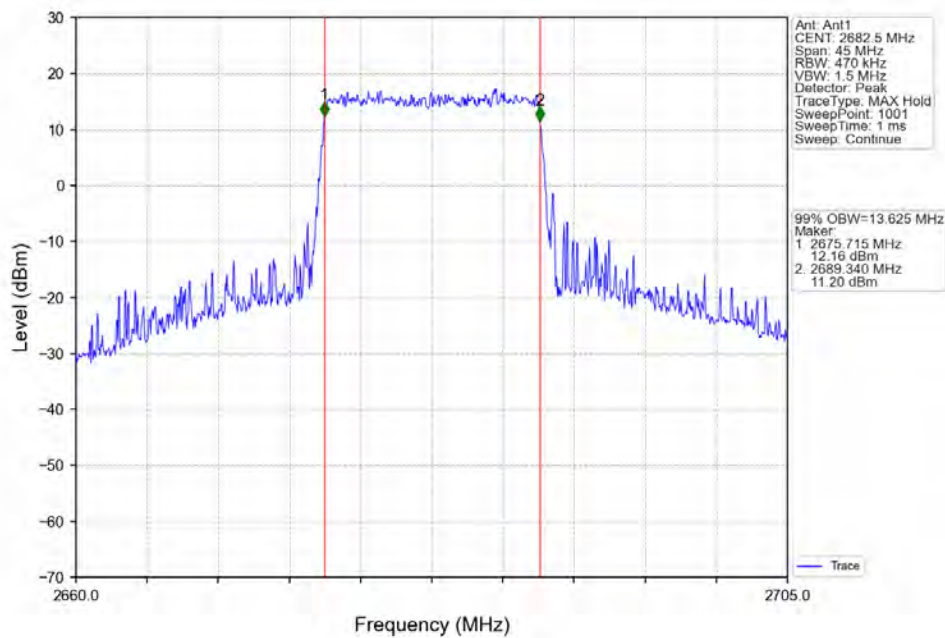
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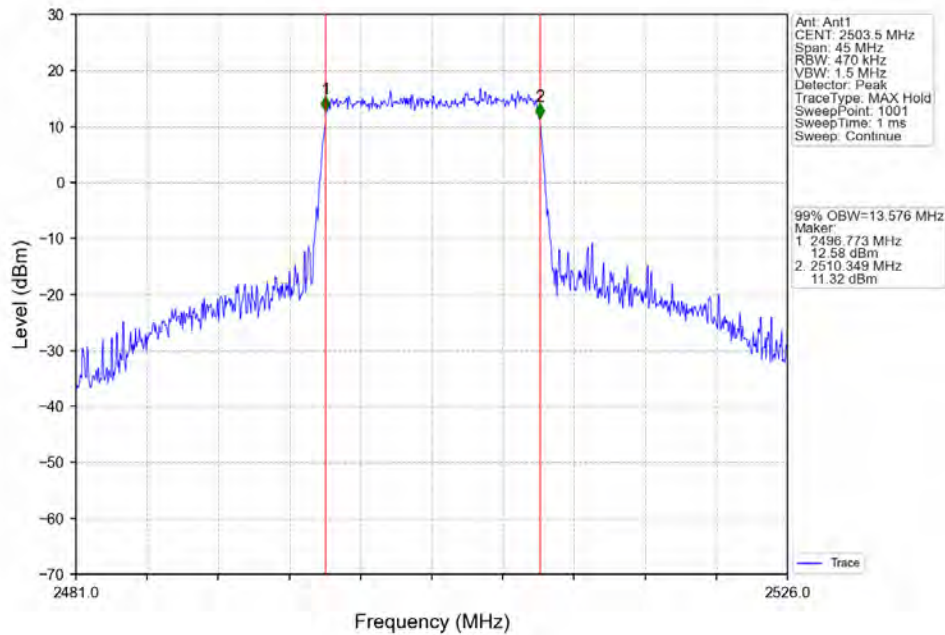
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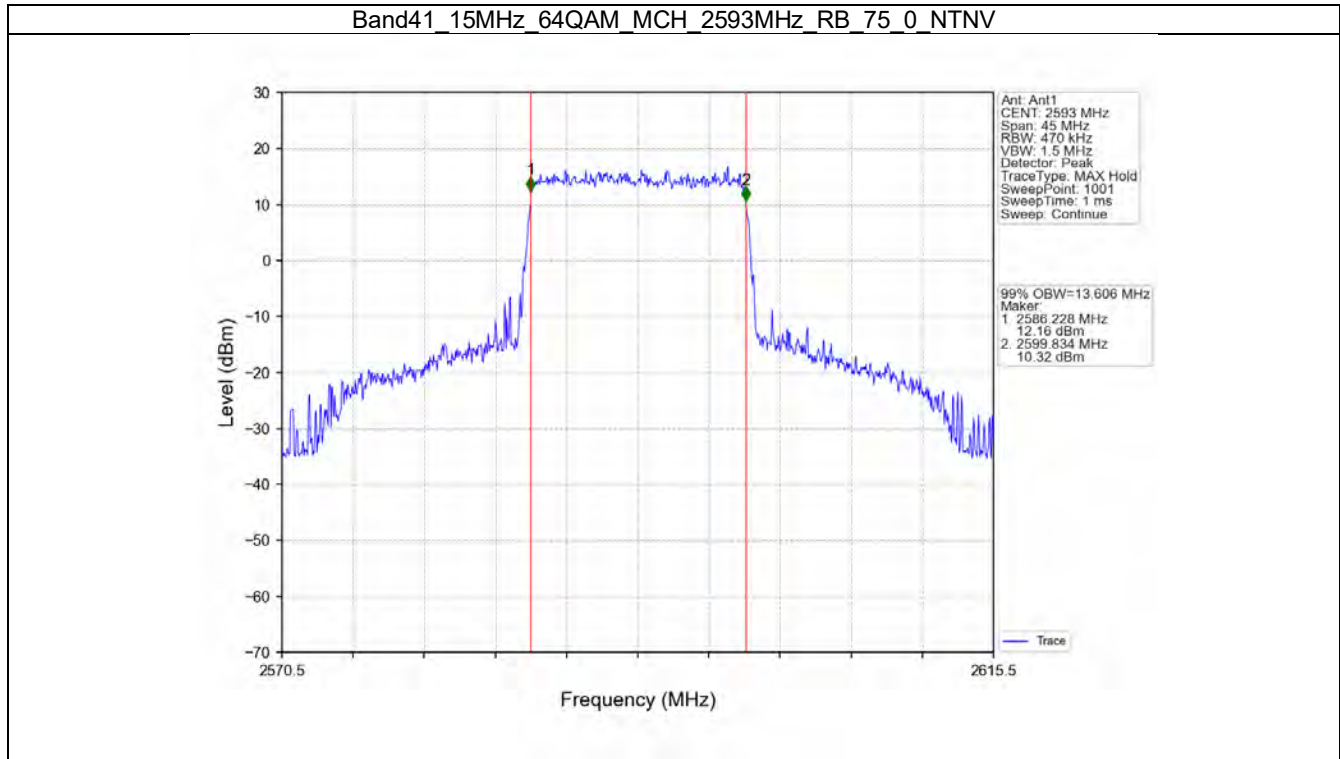


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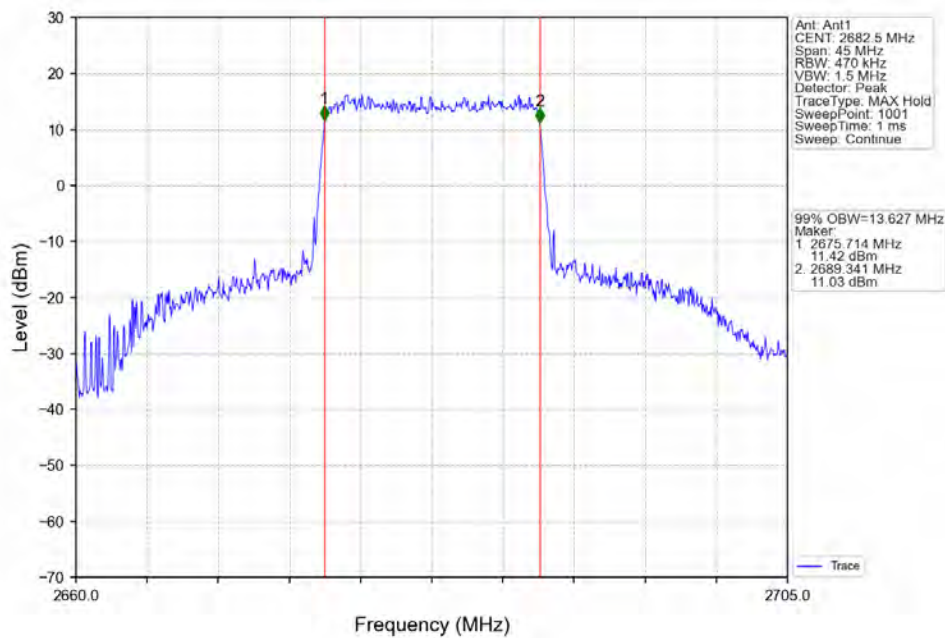
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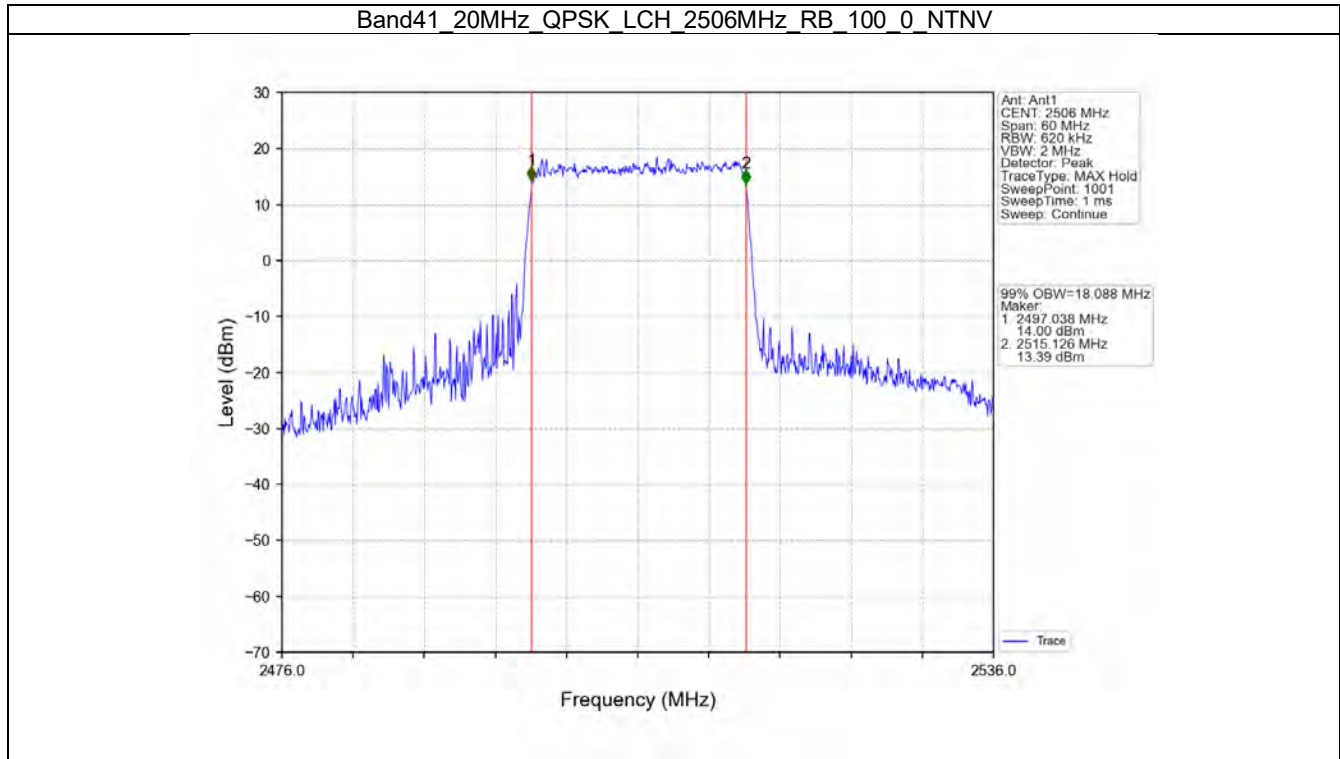


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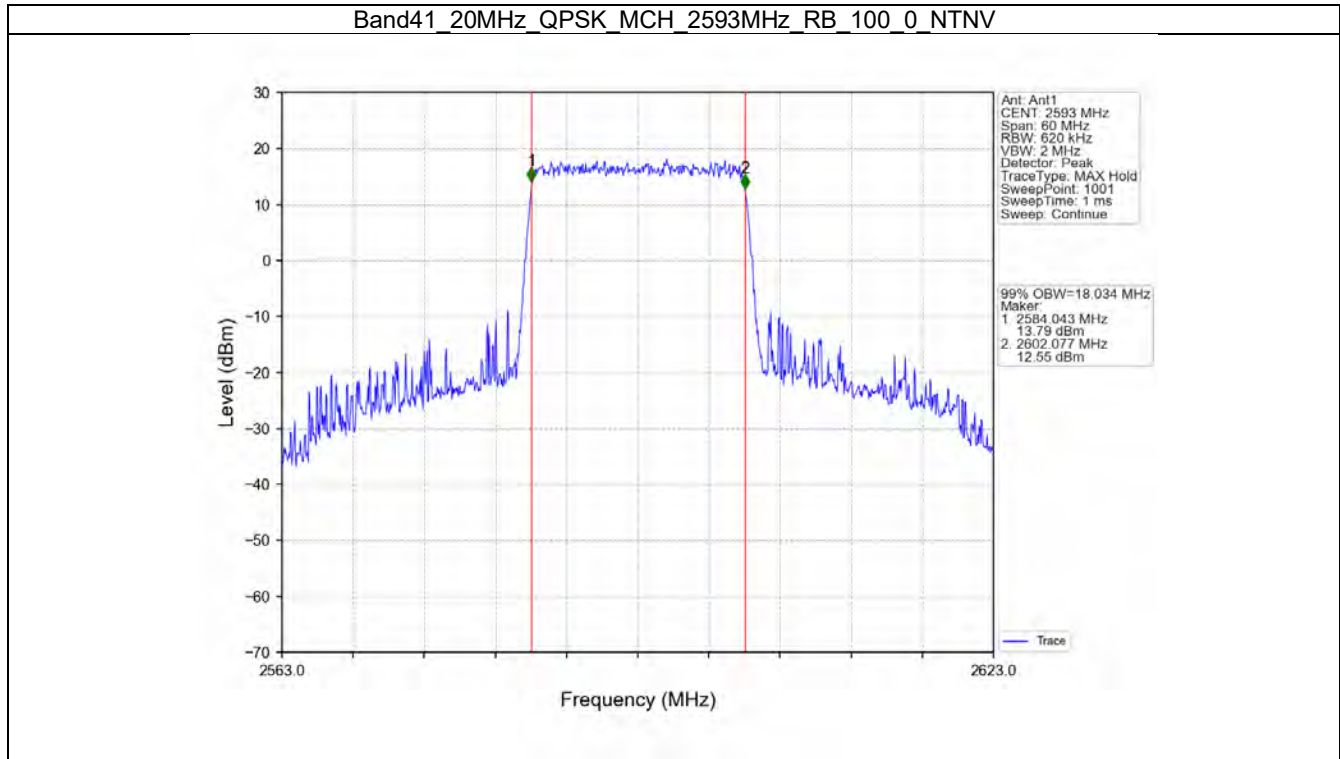


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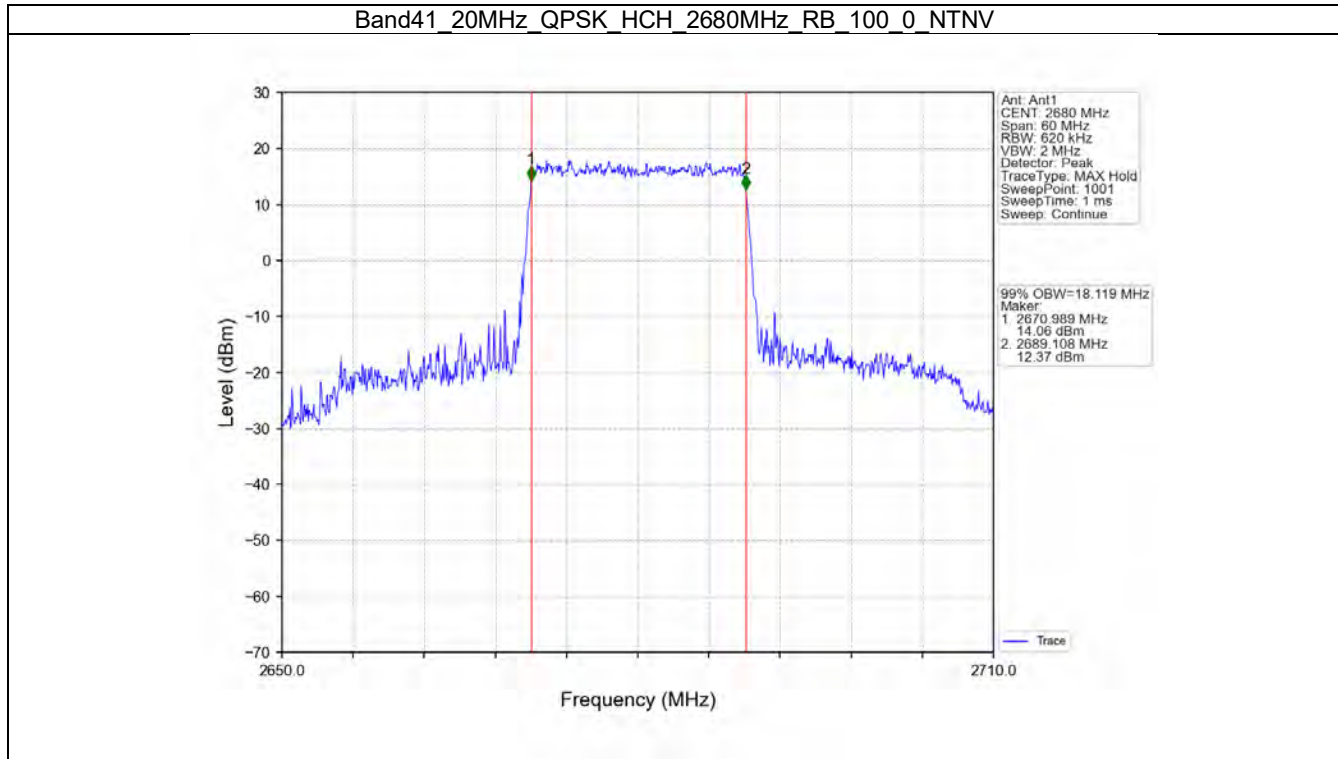


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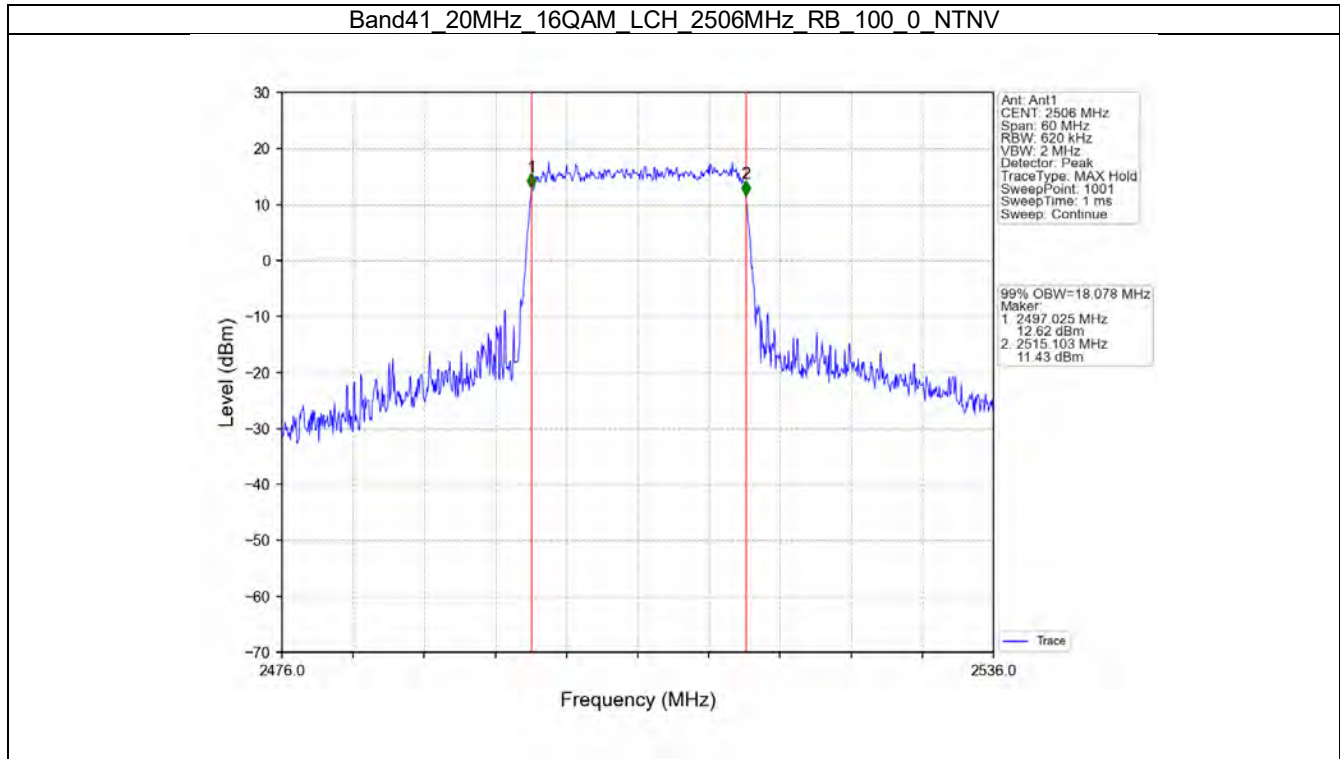


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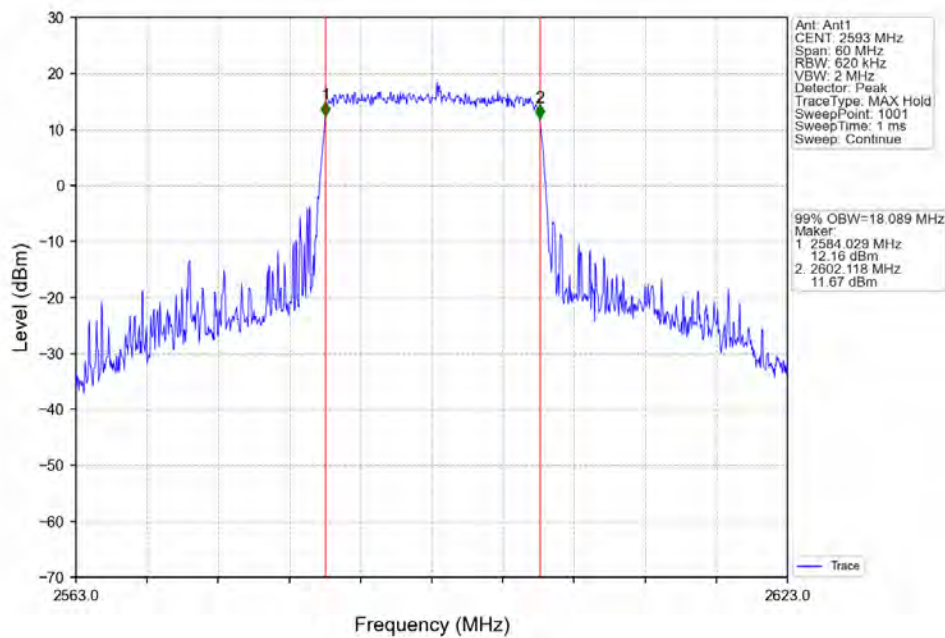
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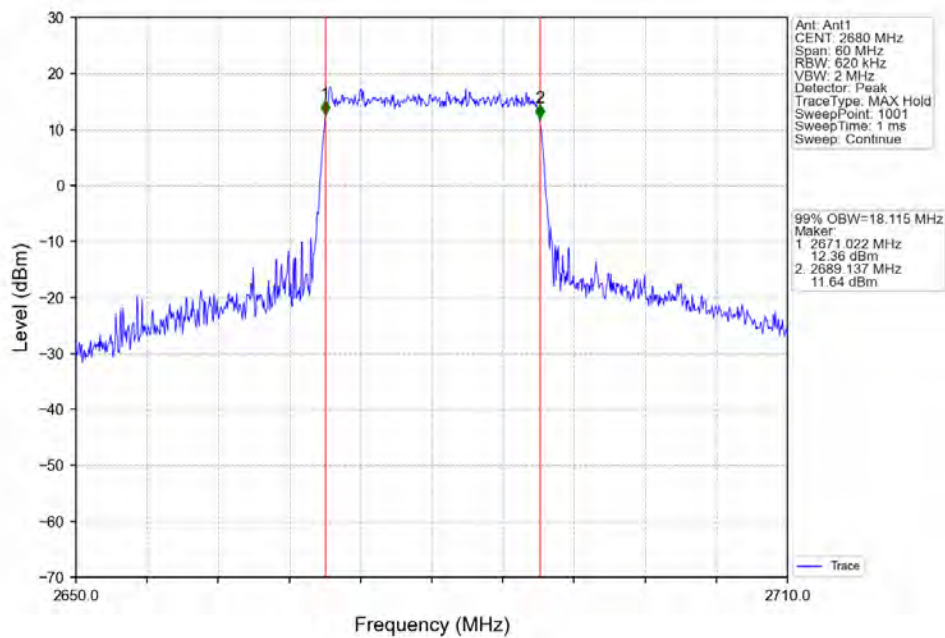
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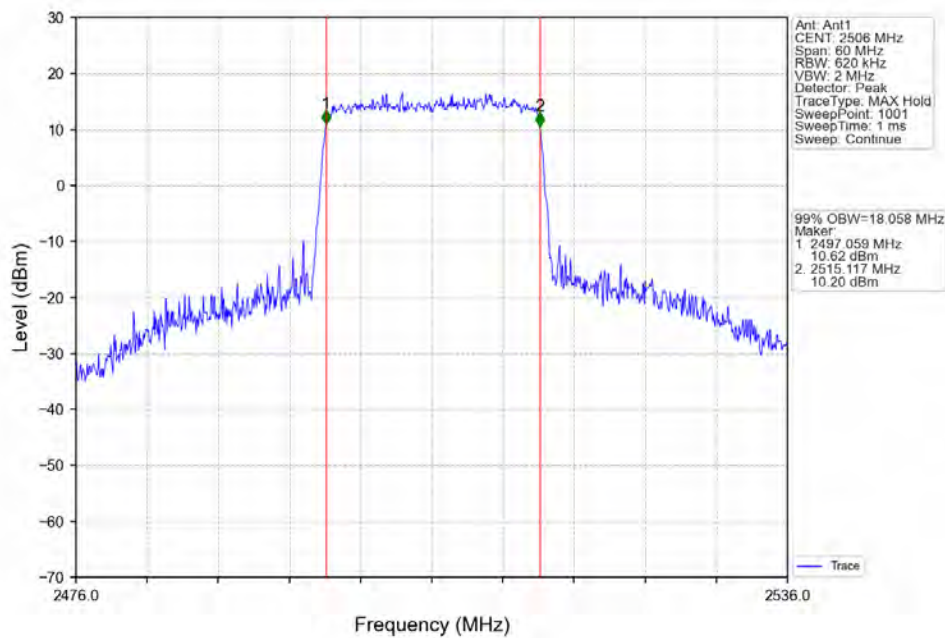
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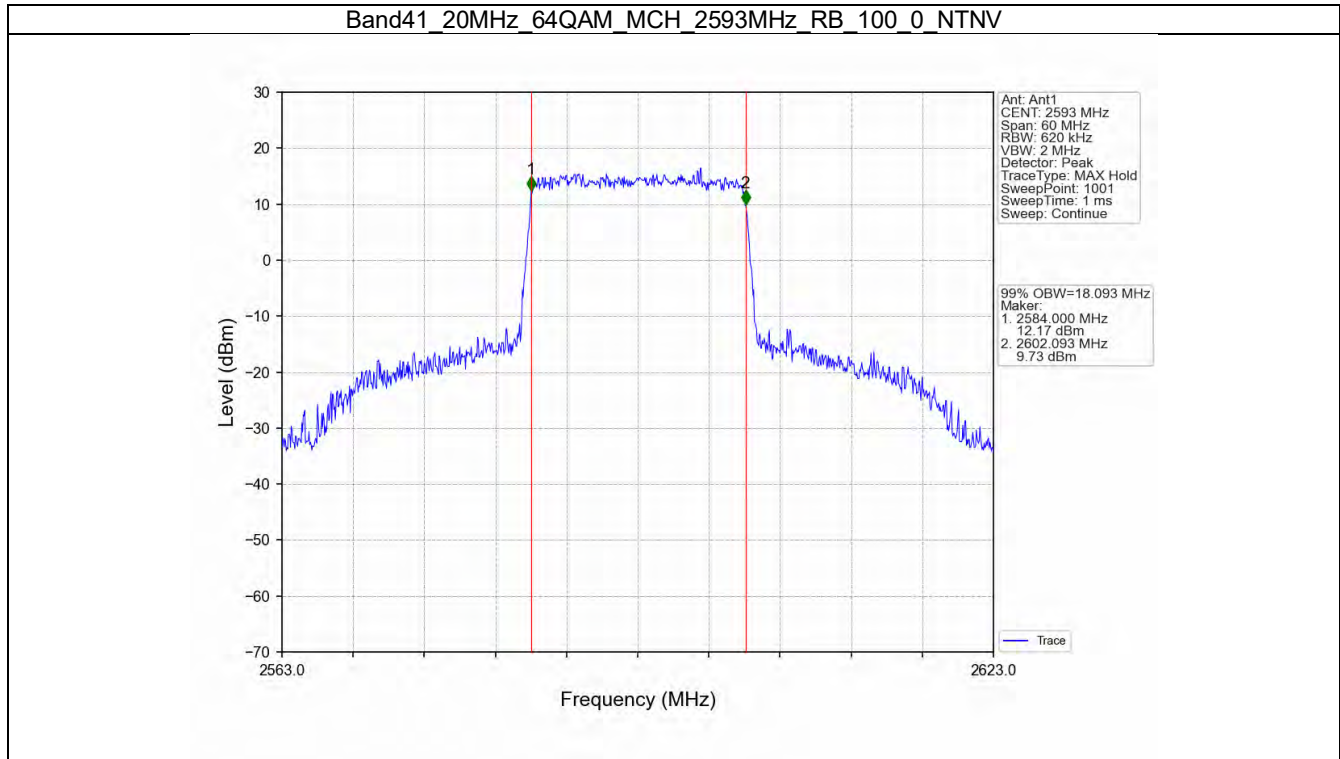


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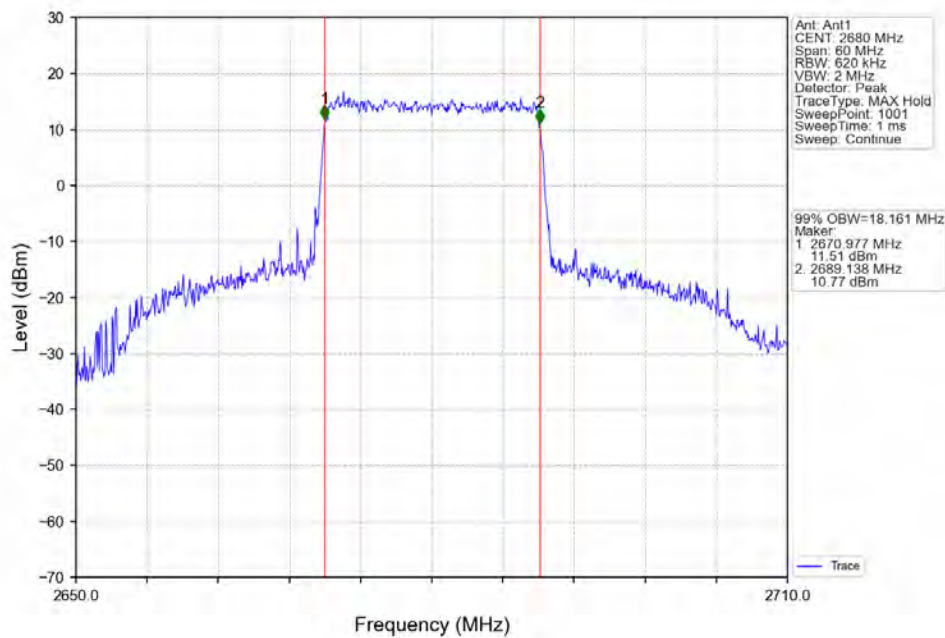
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Band41_20MHz_64QAM_HCH_2680MHz_RB_100_0_NTNV



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3.2 Band41_XDB

3.2.1 Test Result

Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2498.5	25	0	5.020	/	Pass
		2593	25	0	5.348	/	Pass
		2687.5	25	0	5.296	/	Pass
	16QAM	2498.5	25	0	5.358	/	Pass
		2593	25	0	5.343	/	Pass
		2687.5	25	0	5.032	/	Pass
	64QAM	2498.5	25	0	5.028	/	Pass
		2593	25	0	5.273	/	Pass
		2687.5	25	0	5.039	/	Pass
10	QPSK	2501	50	0	9.938	/	Pass
		2593	50	0	9.929	/	Pass
		2685	50	0	11.025	/	Pass
	16QAM	2501	50	0	10.388	/	Pass
		2593	50	0	10.212	/	Pass
		2685	50	0	10.245	/	Pass
	64QAM	2501	50	0	11.169	/	Pass
		2593	50	0	9.947	/	Pass
		2685	50	0	10.425	/	Pass
15	QPSK	2503.5	75	0	15.112	/	Pass
		2593	75	0	14.881	/	Pass
		2682.5	75	0	15.479	/	Pass
	16QAM	2503.5	75	0	16.440	/	Pass
		2593	75	0	14.828	/	Pass
		2682.5	75	0	16.495	/	Pass
	64QAM	2503.5	75	0	14.847	/	Pass
		2593	75	0	16.947	/	Pass
		2682.5	75	0	15.250	/	Pass
20	QPSK	2506	100	0	20.542	/	Pass
		2593	100	0	19.642	/	Pass
		2680	100	0	19.969	/	Pass
	16QAM	2506	100	0	20.145	/	Pass
		2593	100	0	21.518	/	Pass
		2680	100	0	19.780	/	Pass
	64QAM	2506	100	0	19.654	/	Pass
		2593	100	0	19.605	/	Pass
		2680	100	0	21.306	/	Pass



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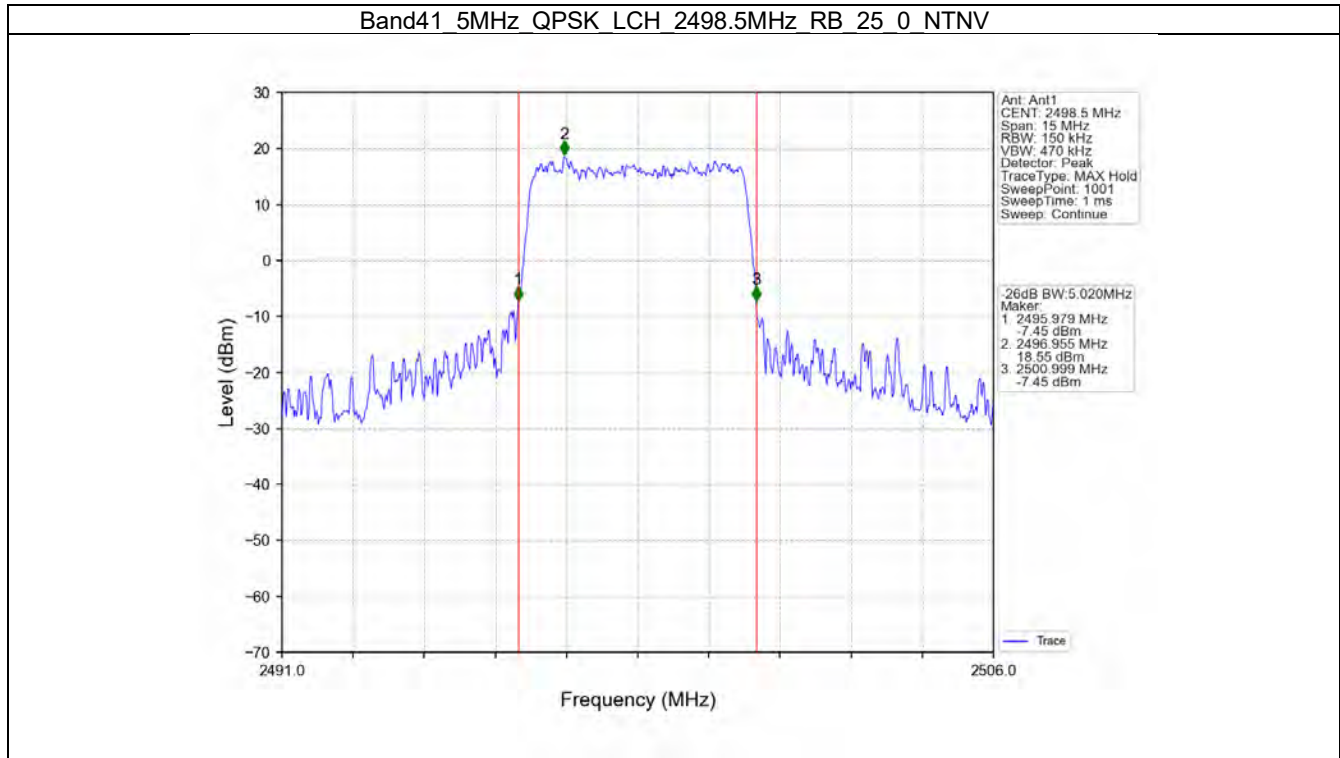
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3.2.2 Test Graph



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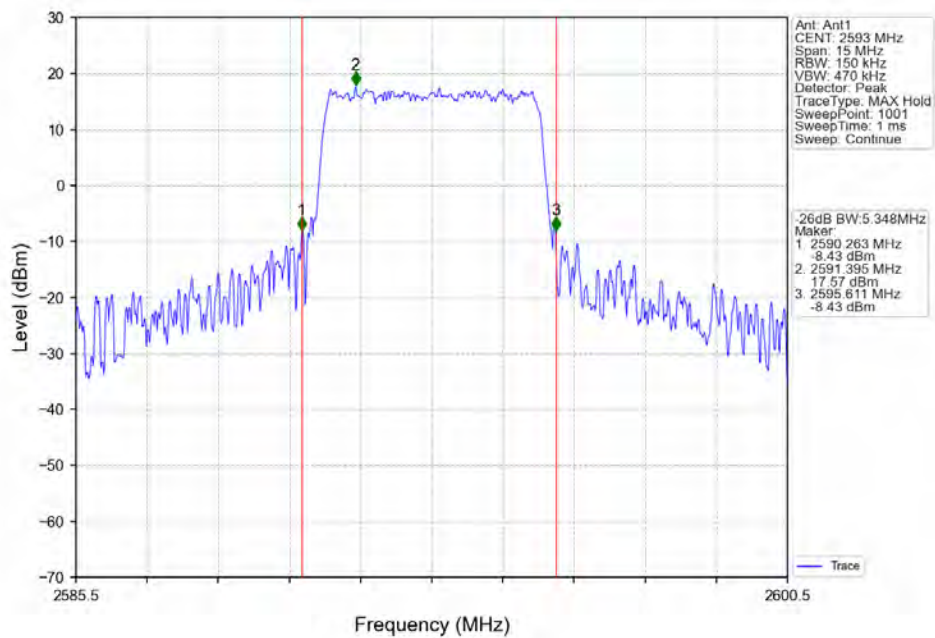
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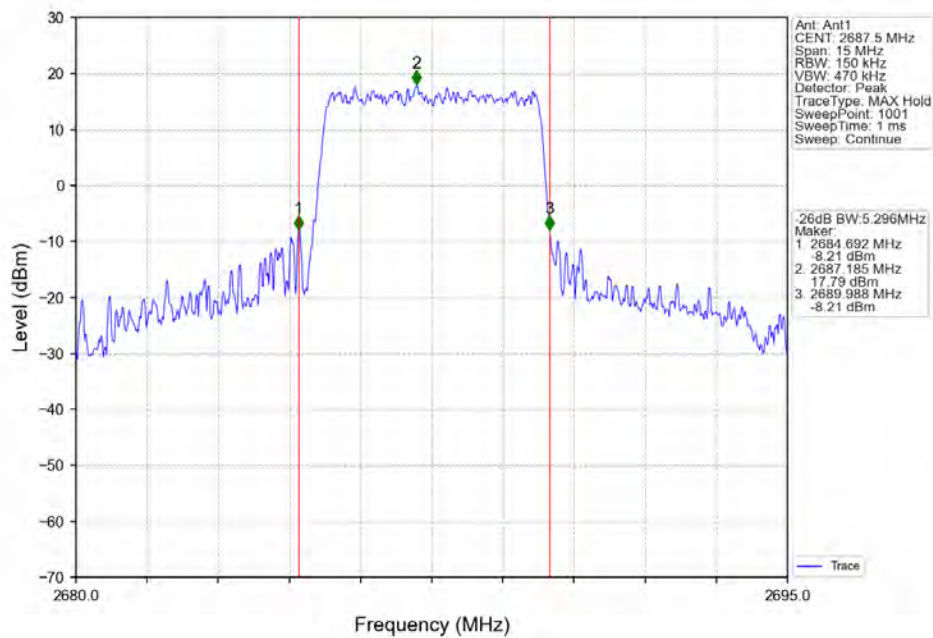
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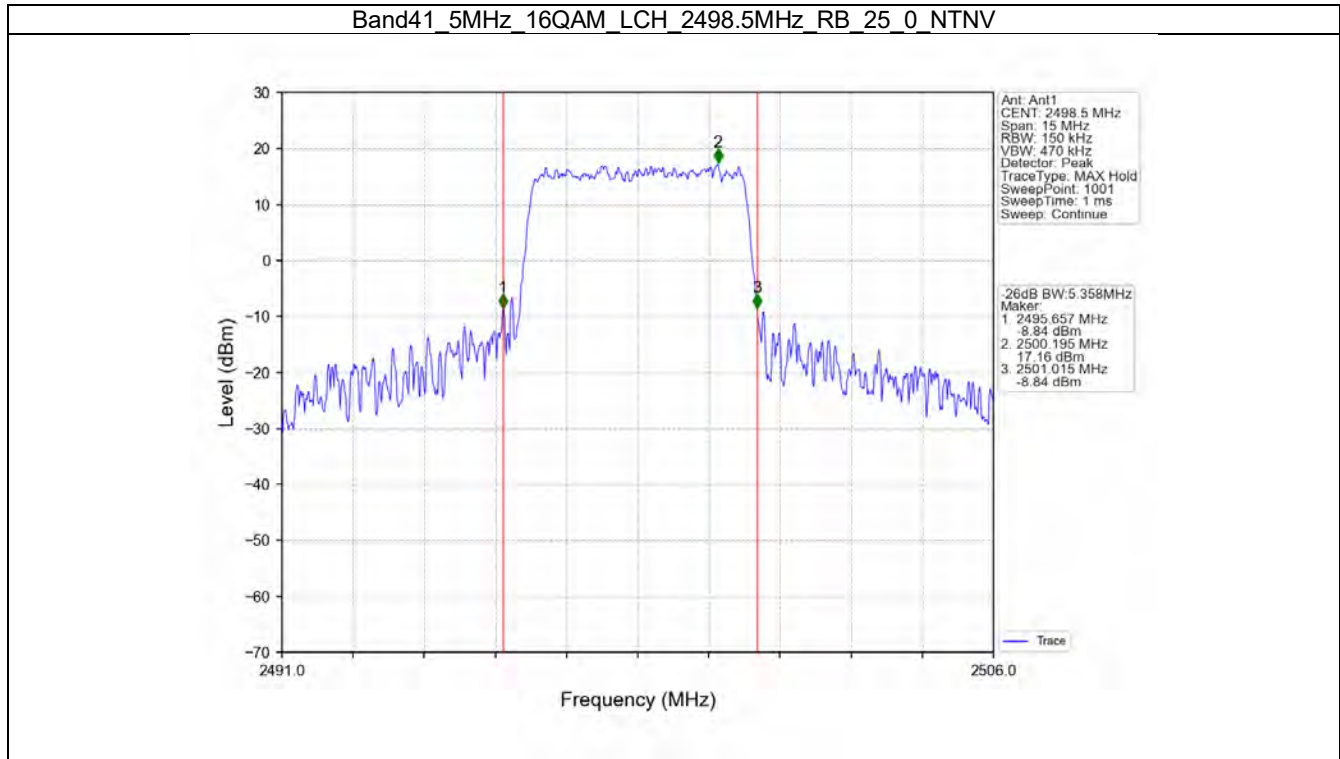


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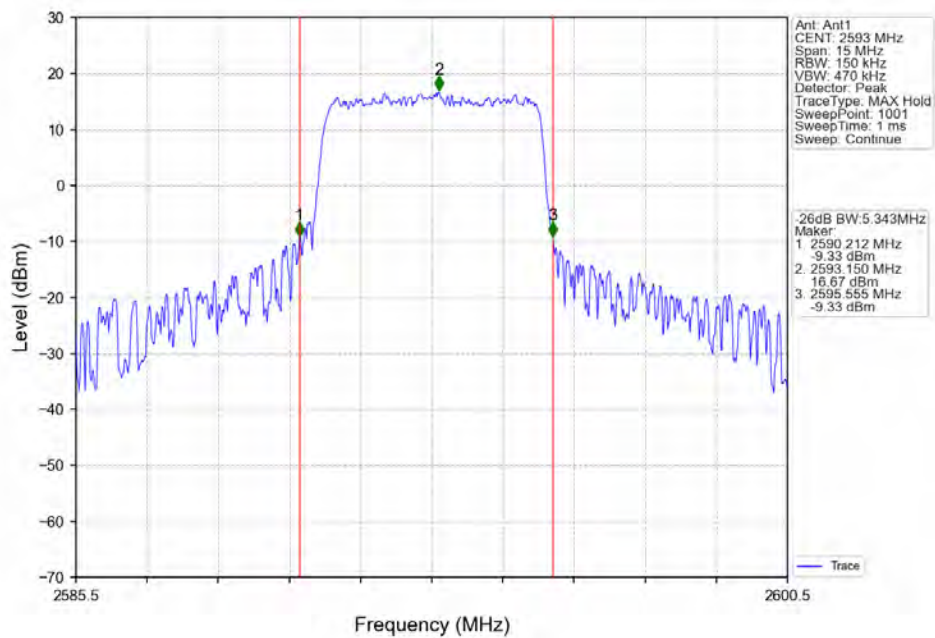
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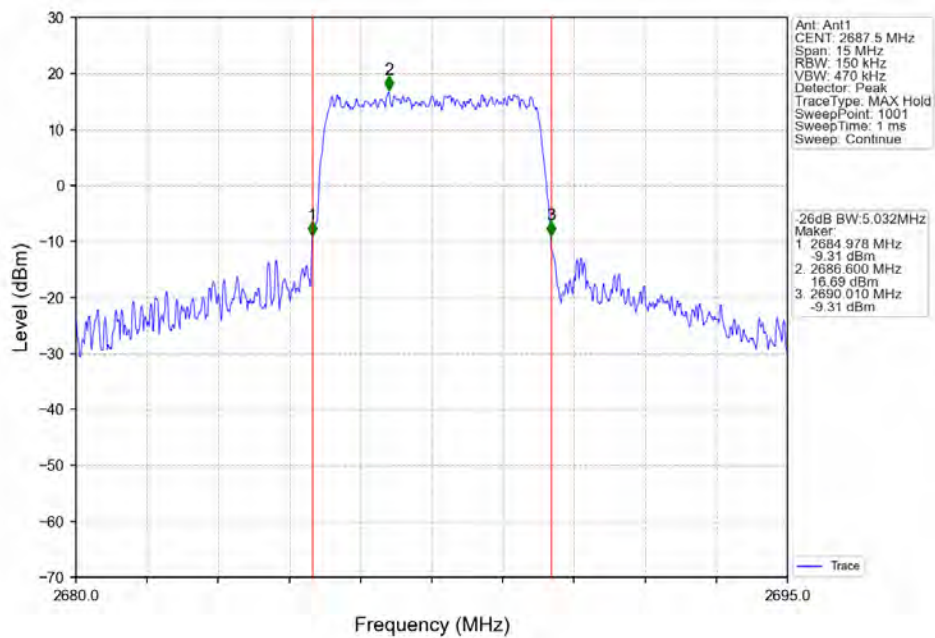
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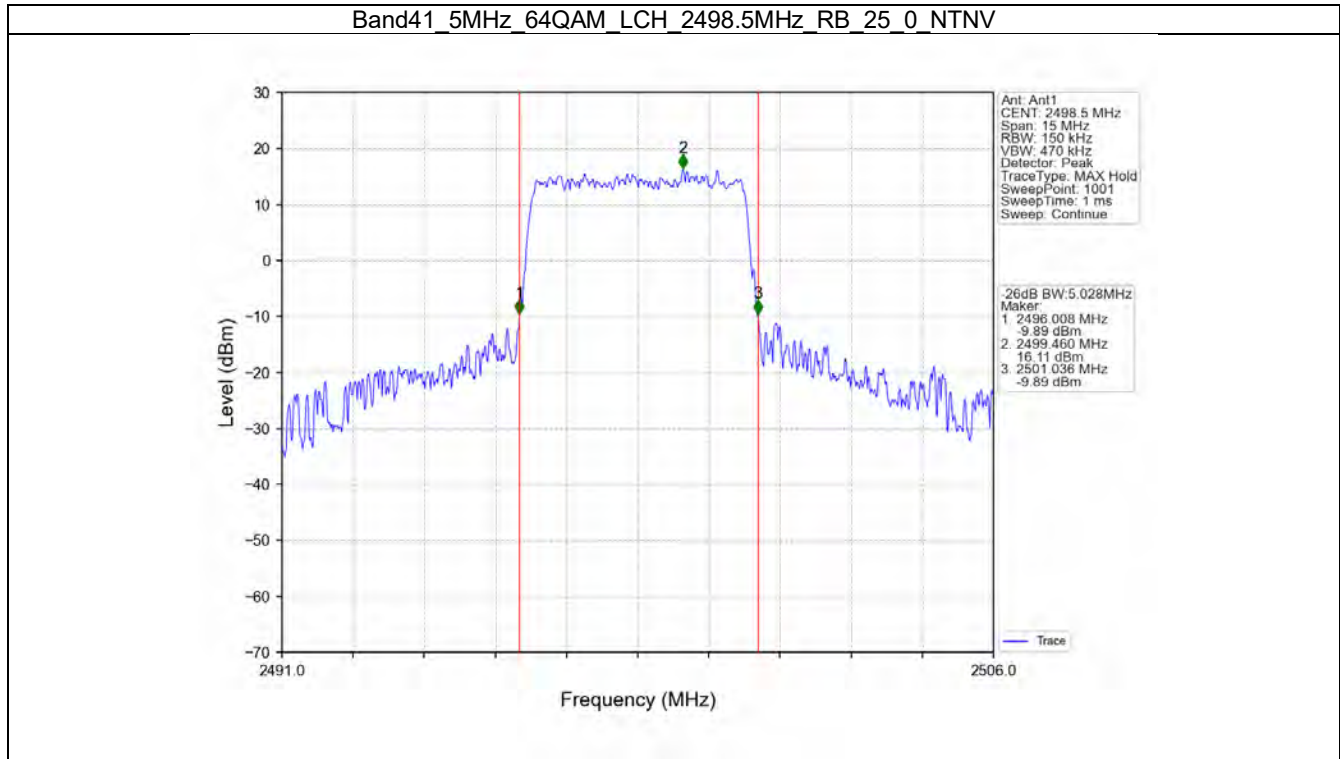


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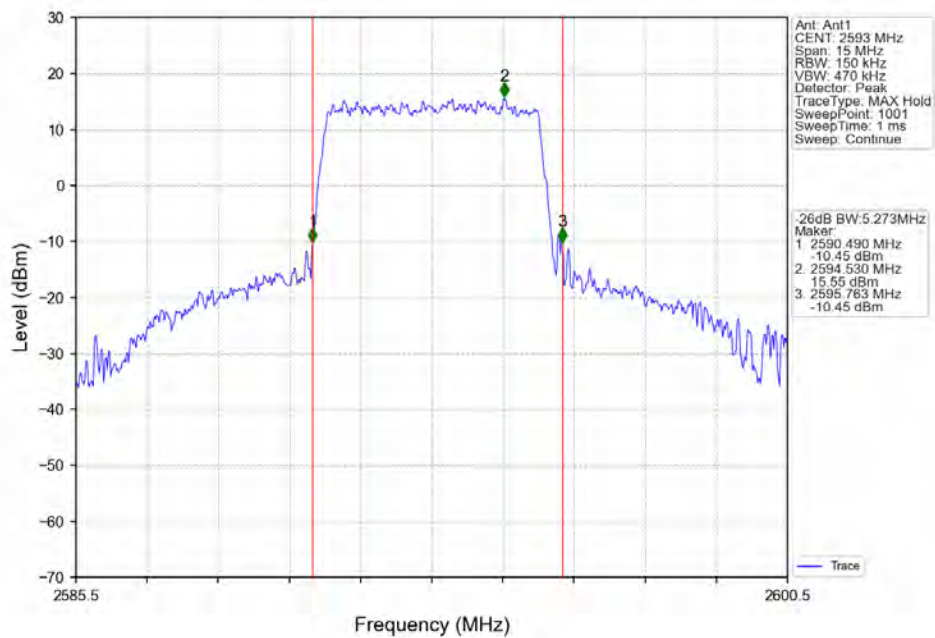
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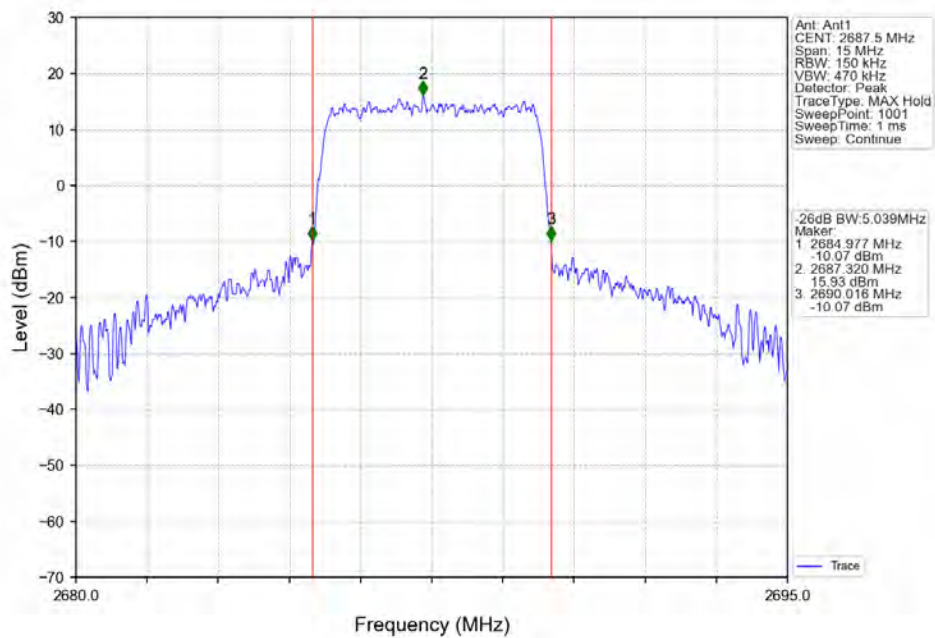
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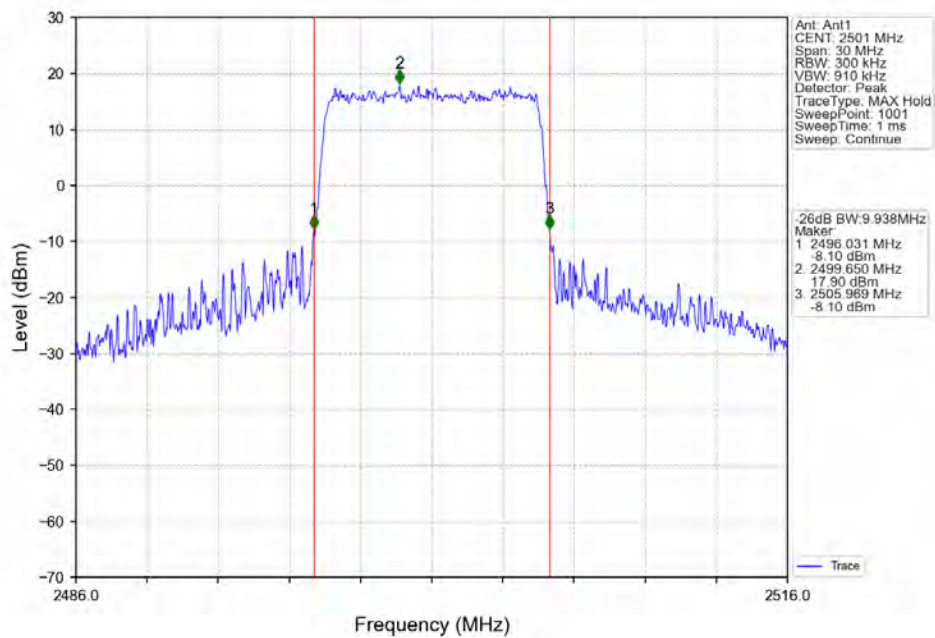
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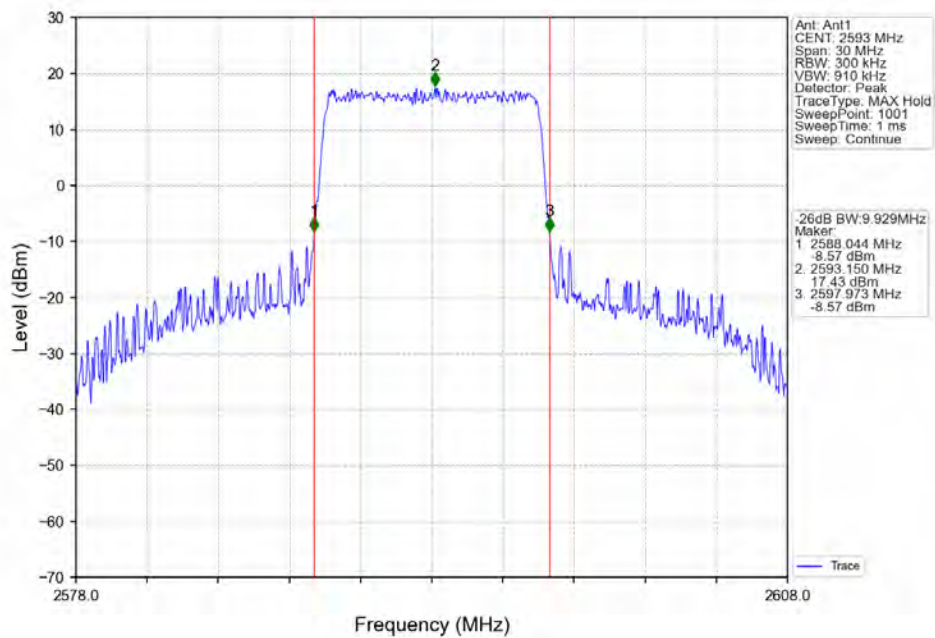
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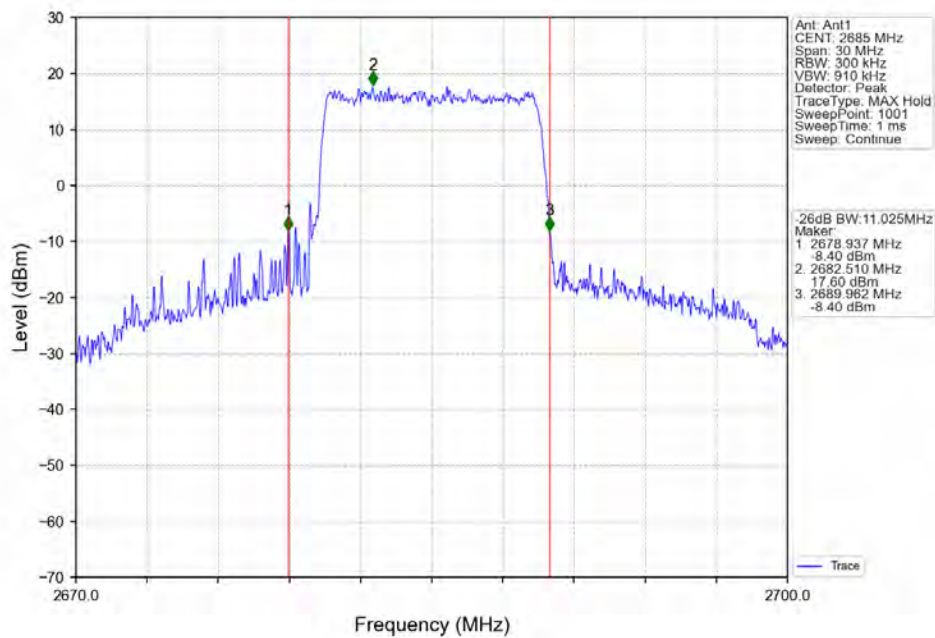
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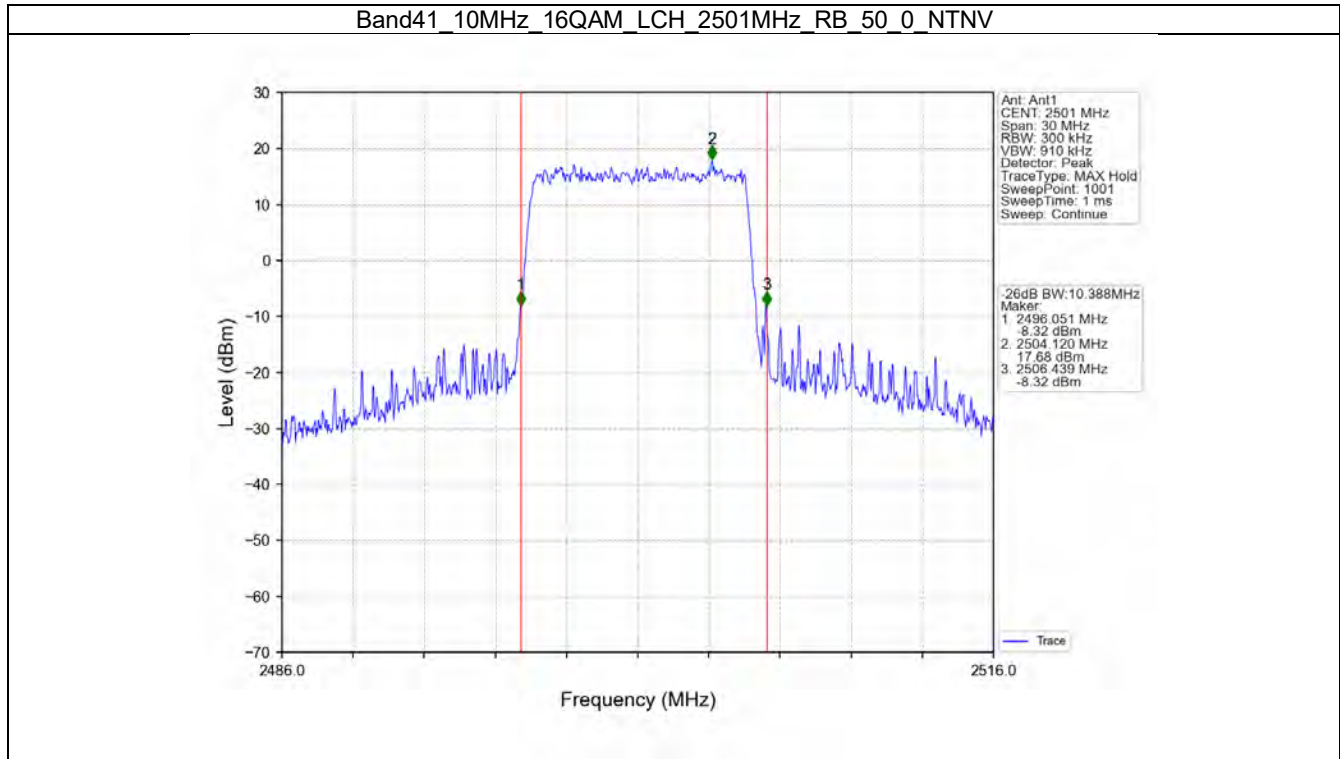


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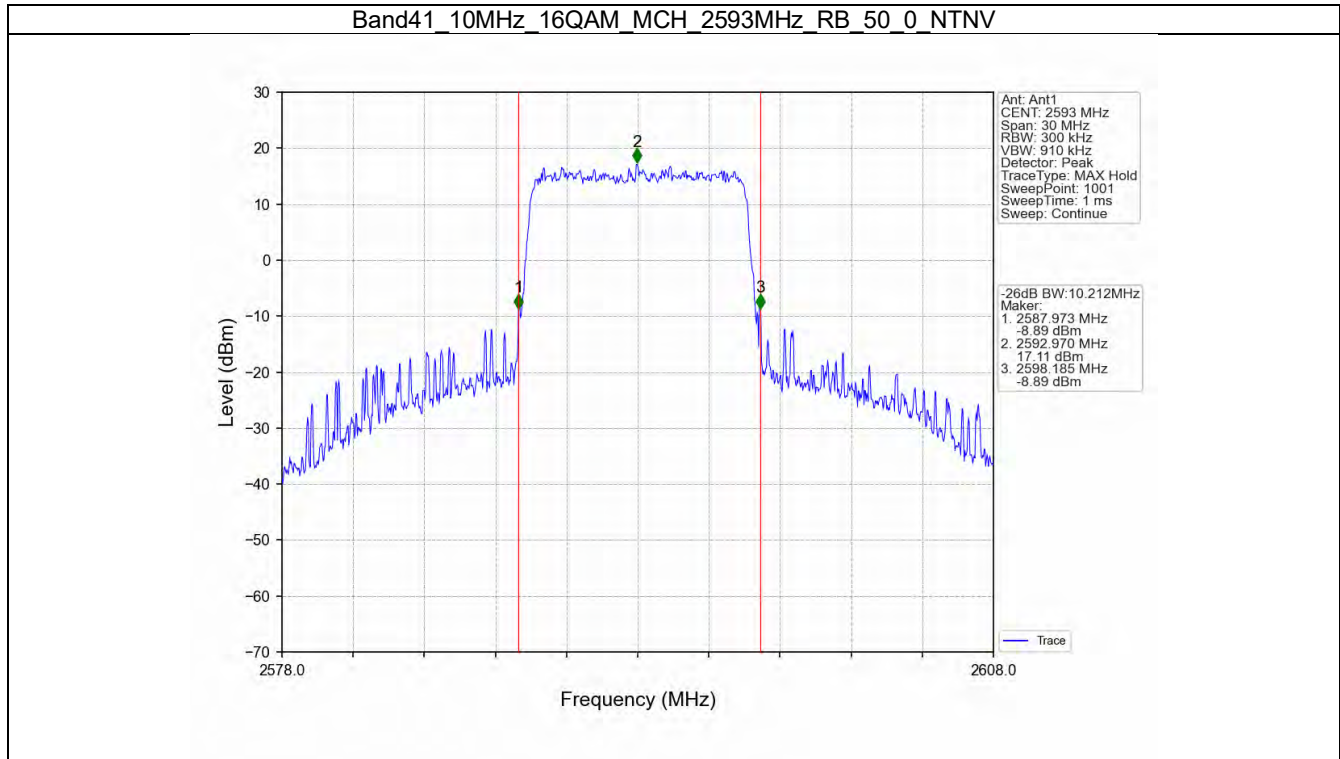


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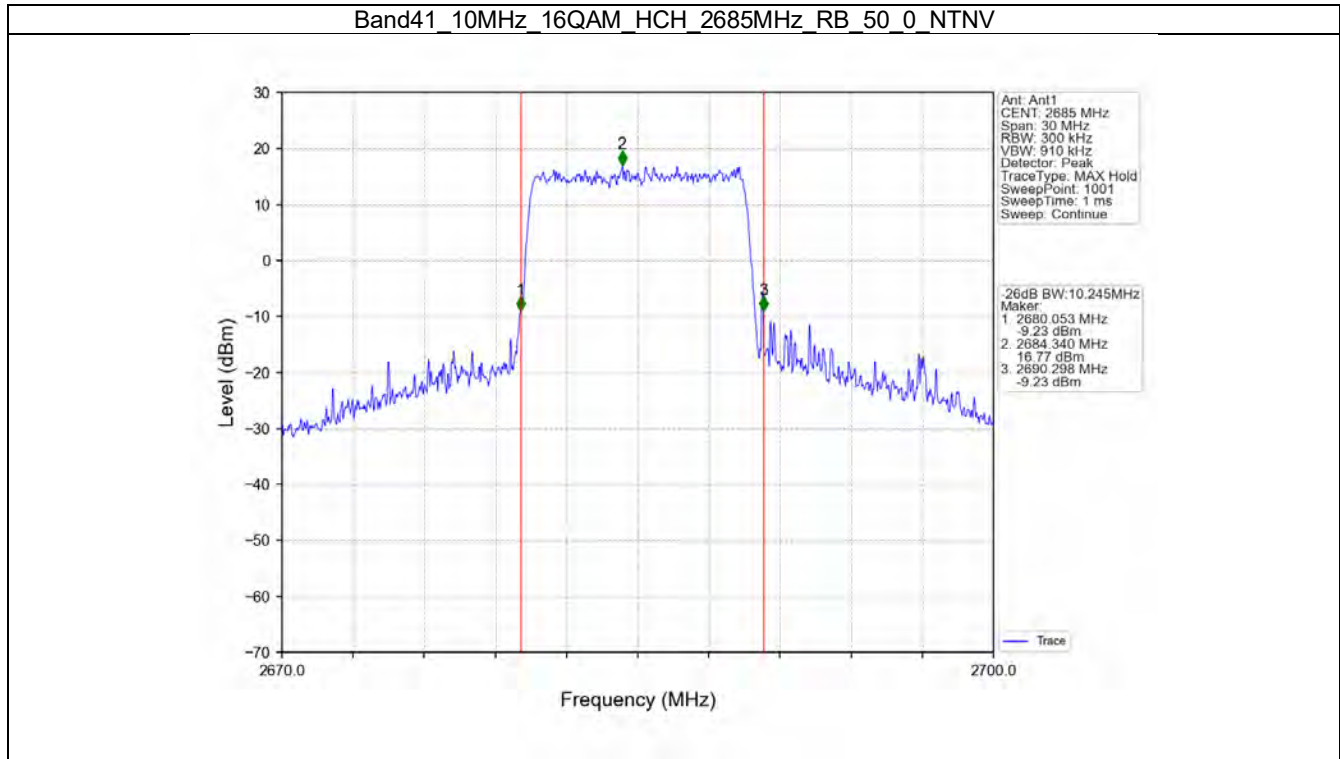


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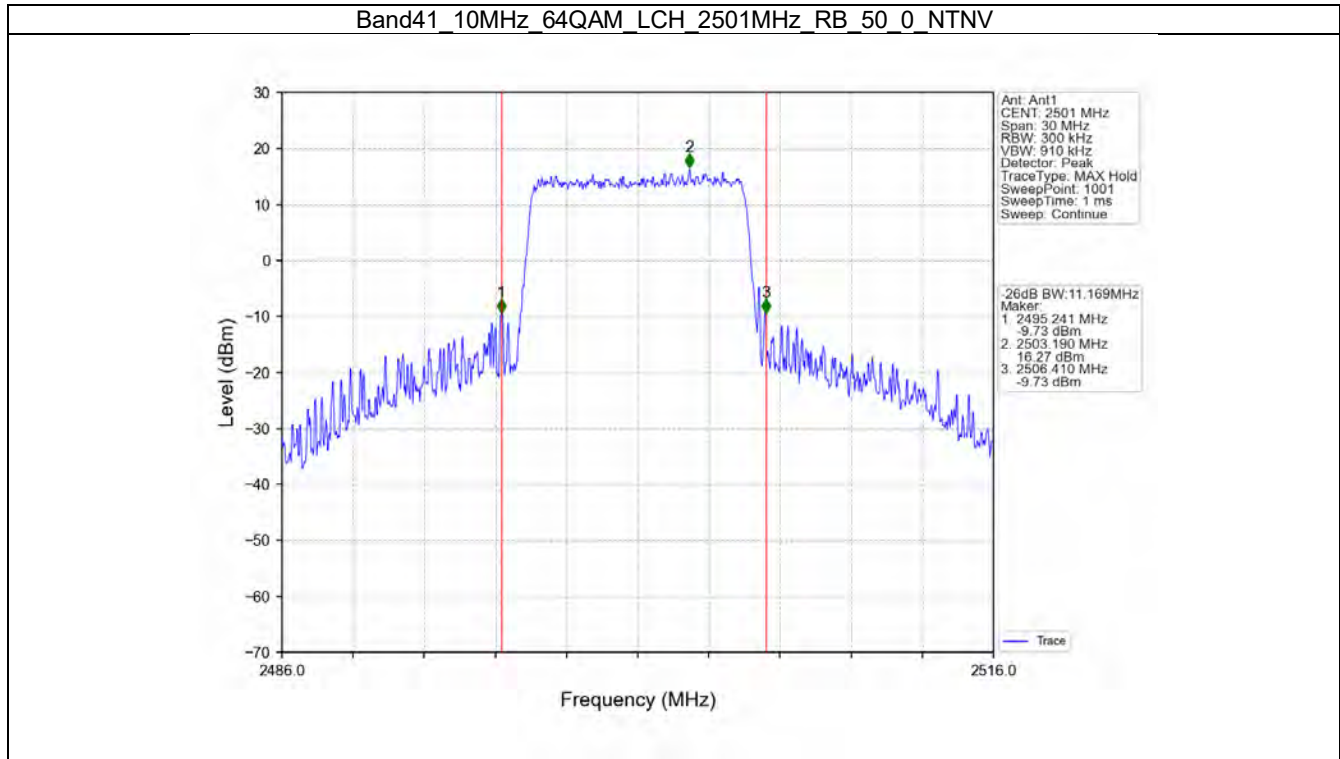


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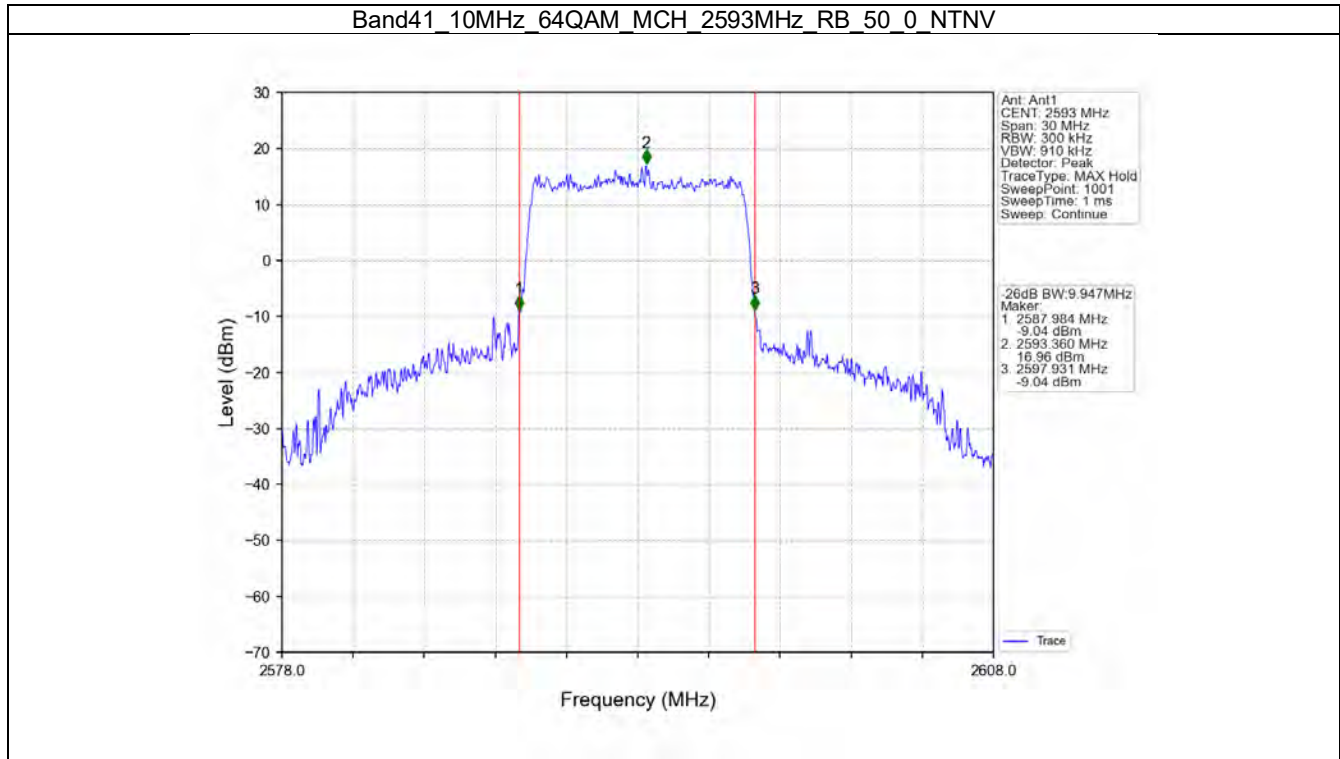


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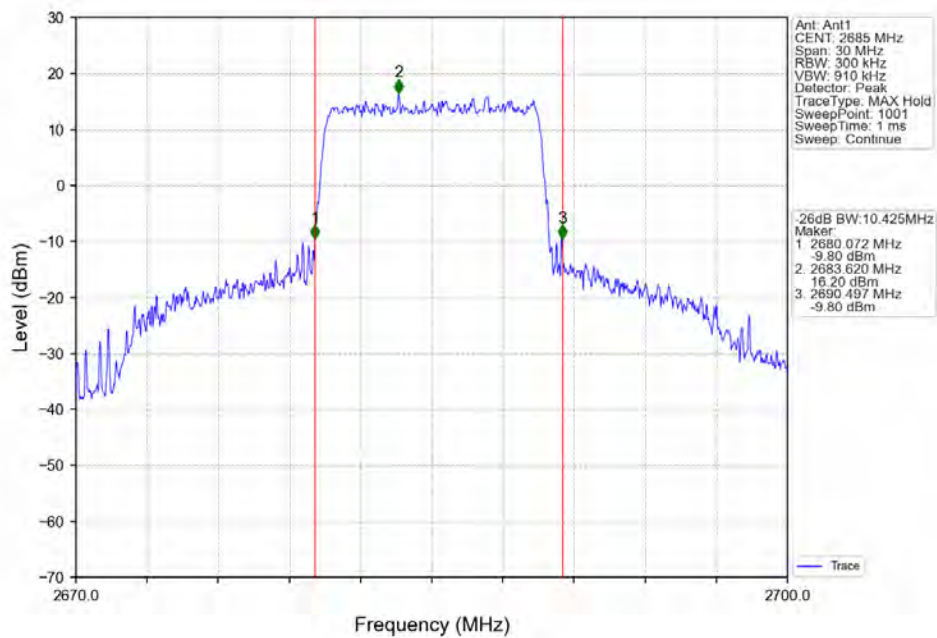
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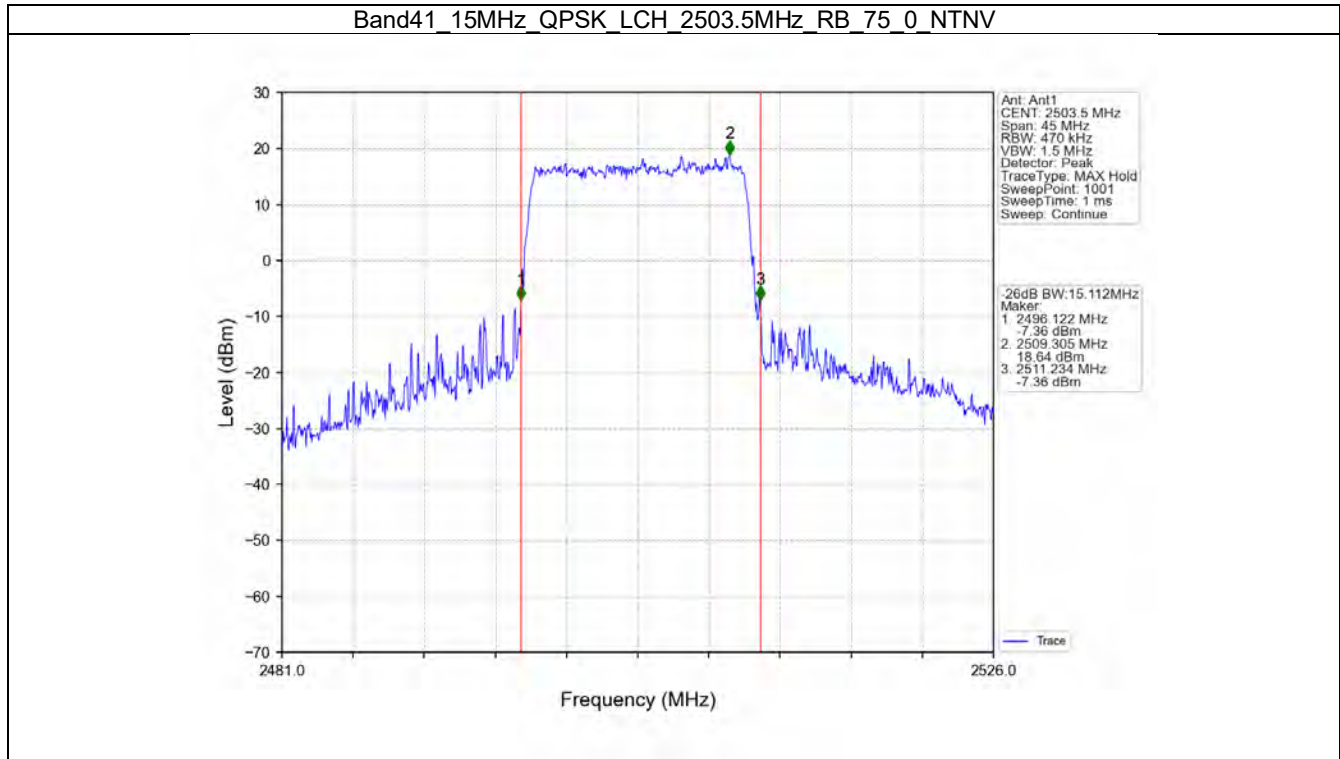


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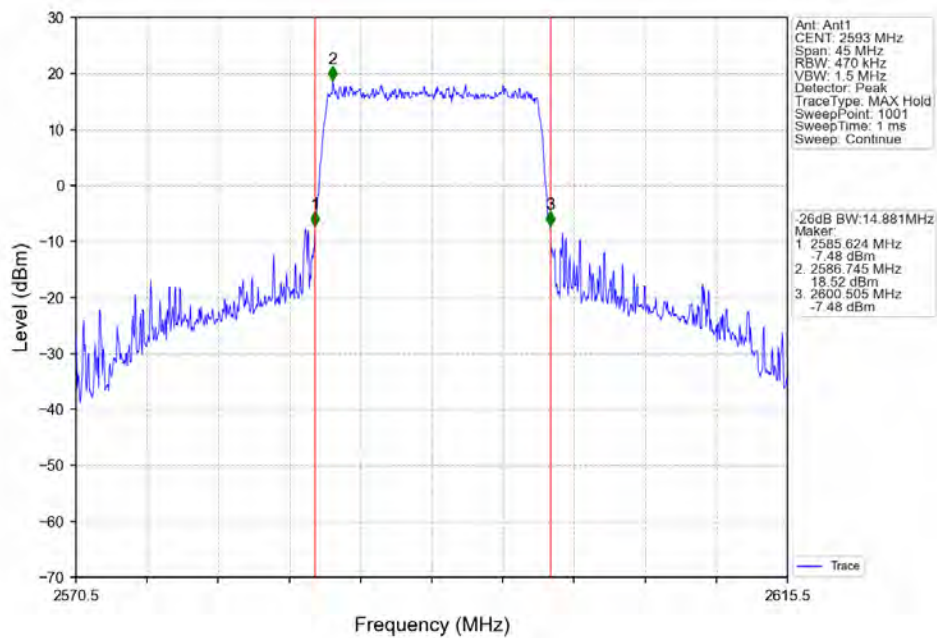
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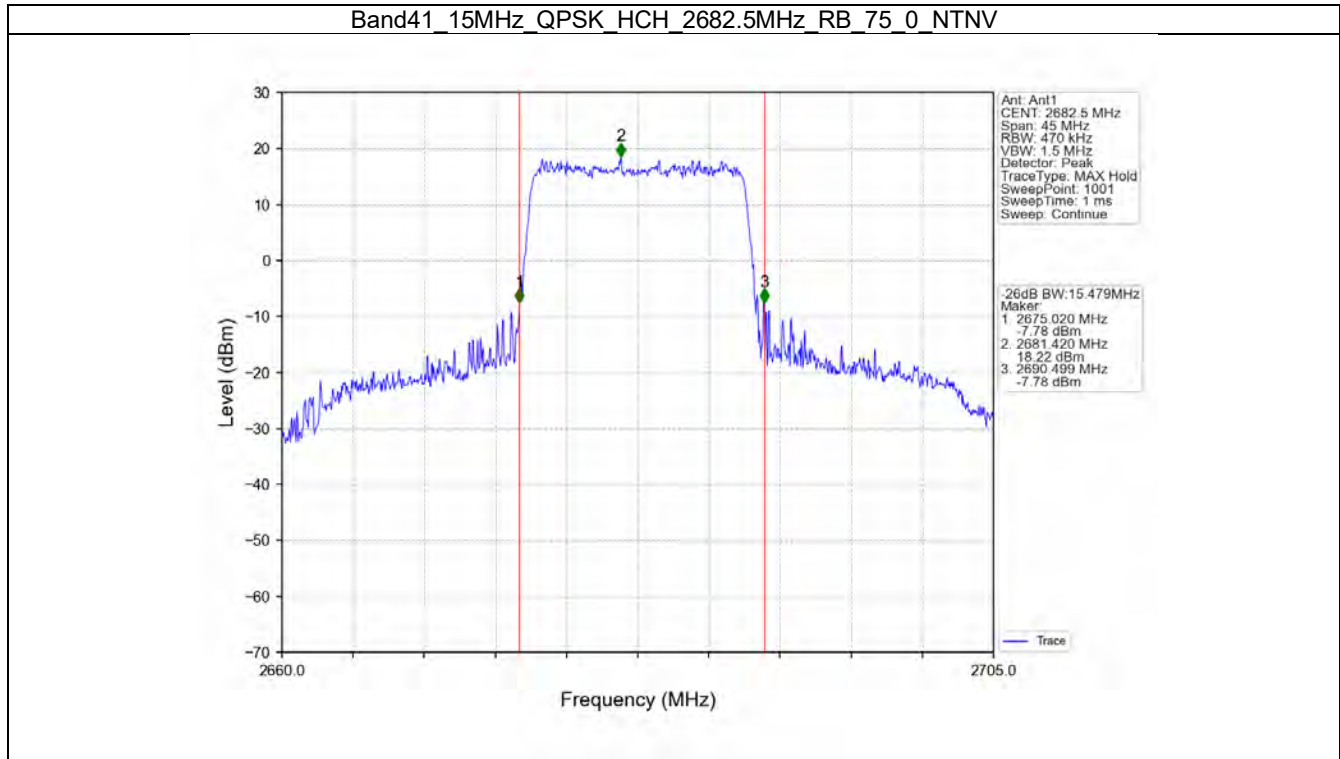


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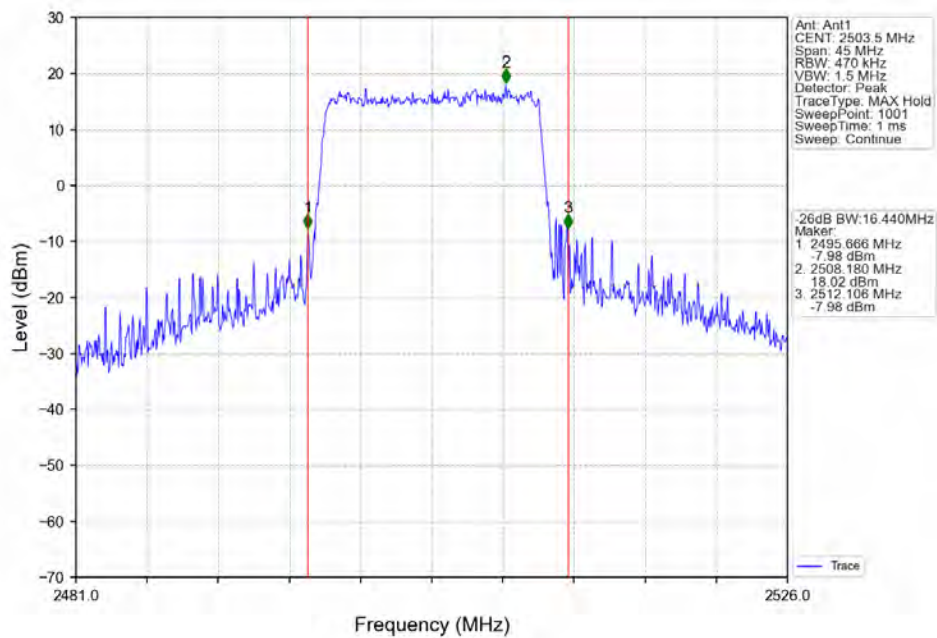
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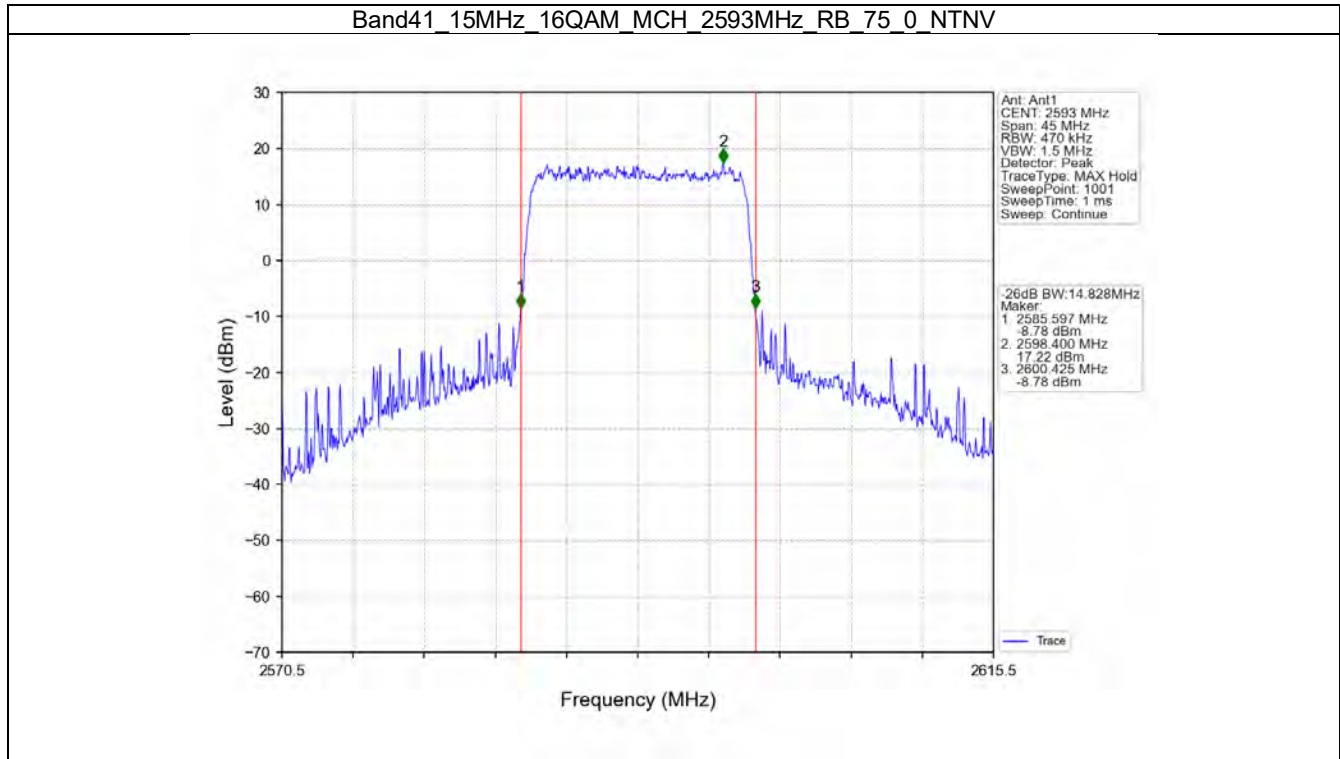


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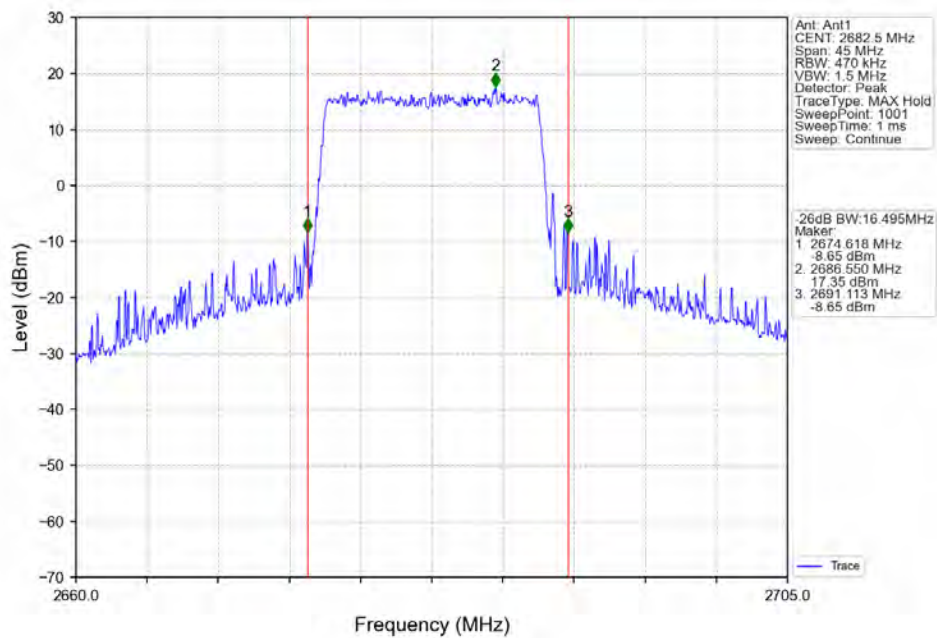
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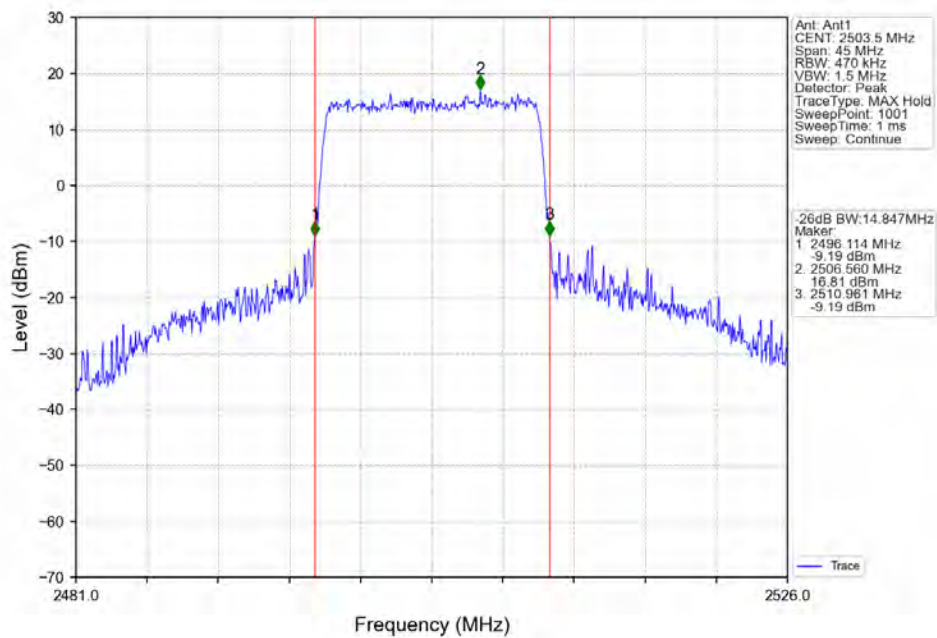
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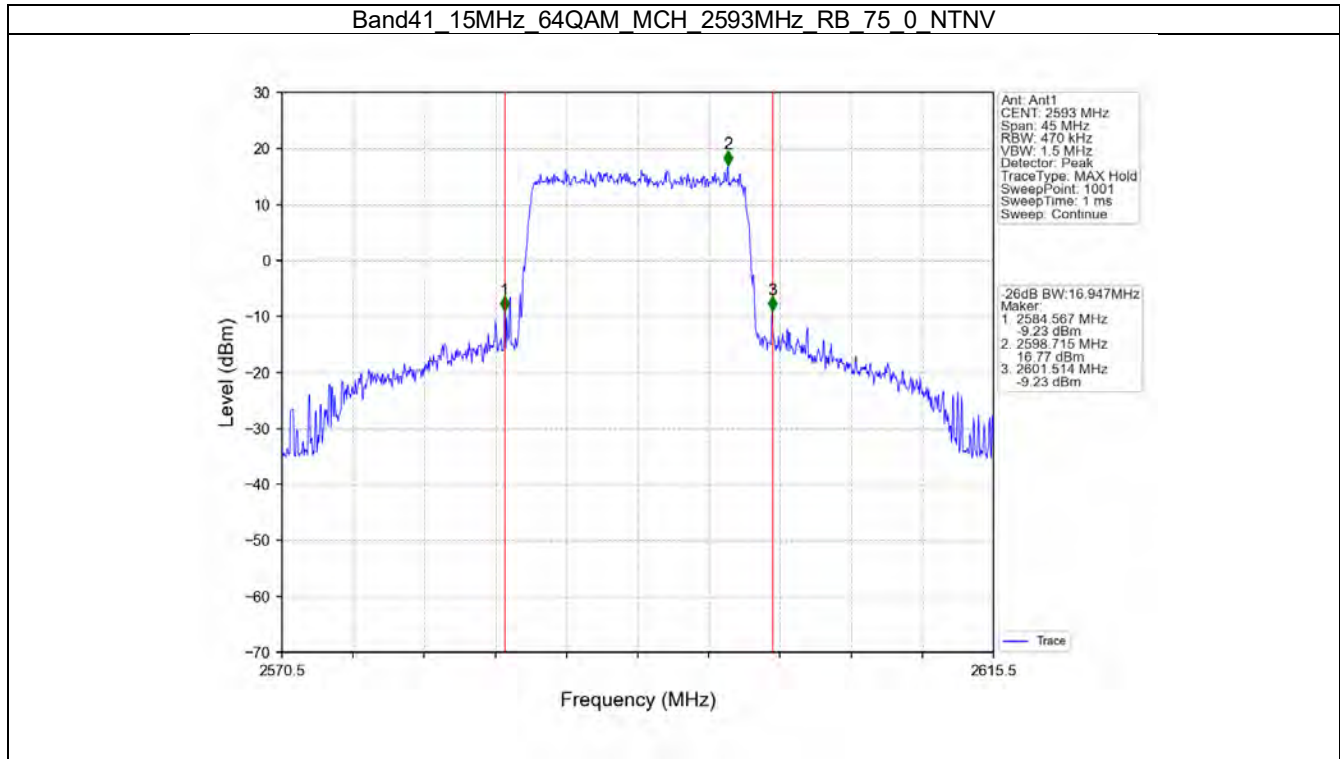


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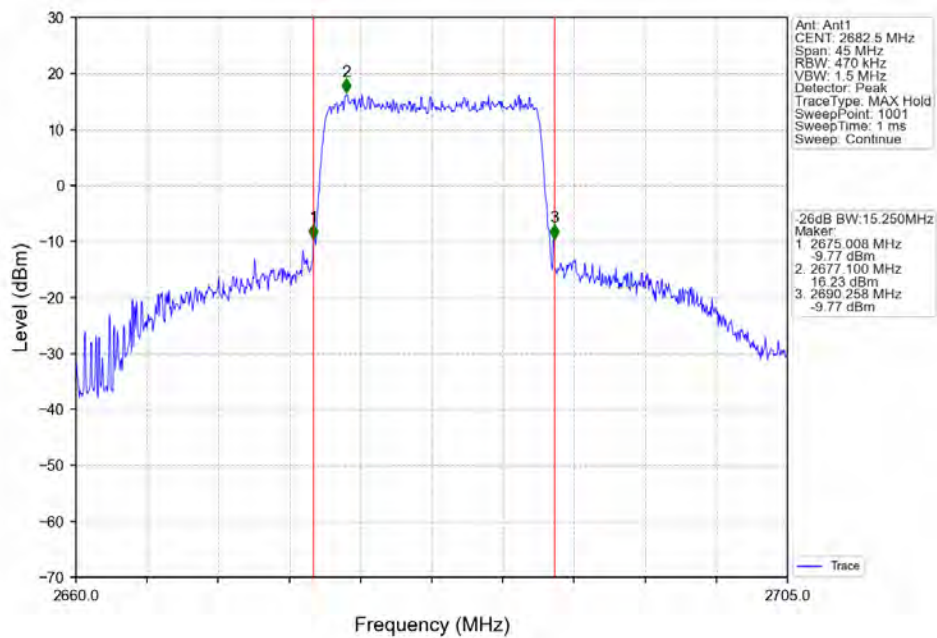
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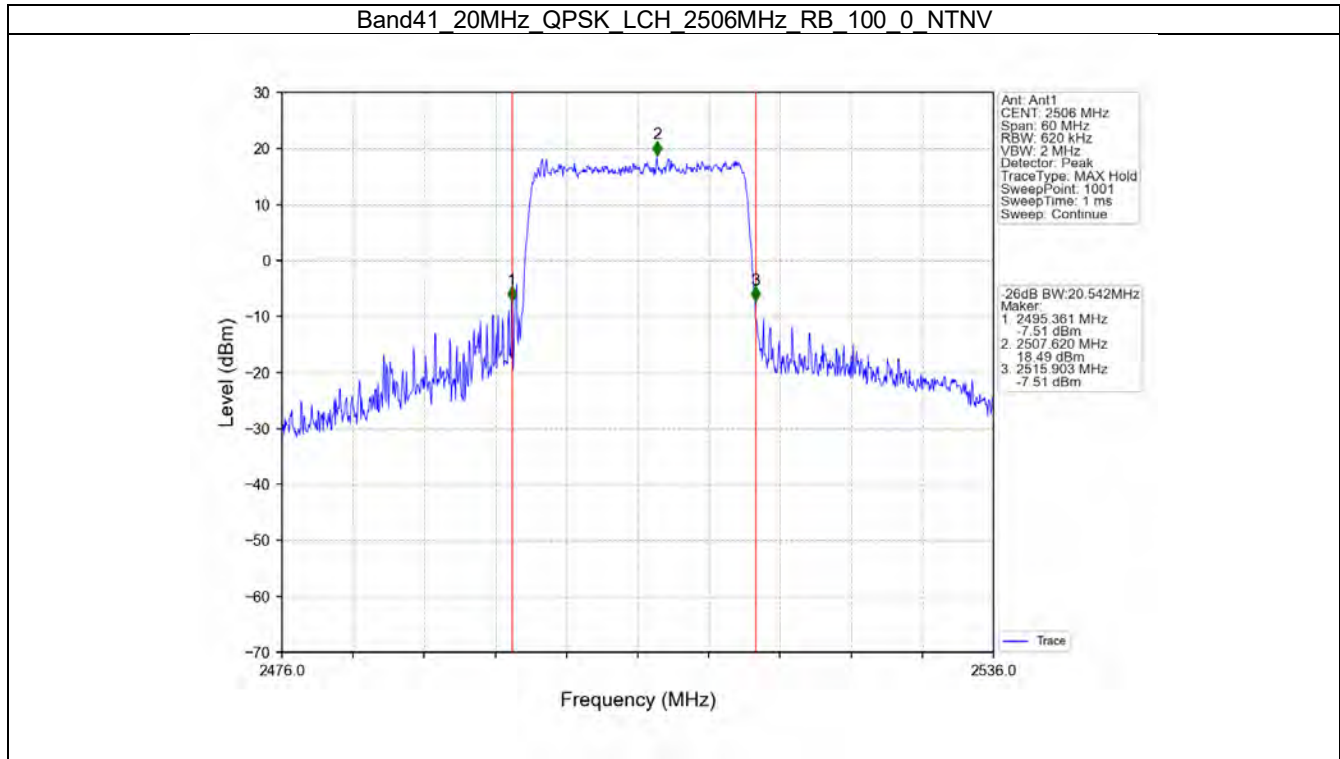


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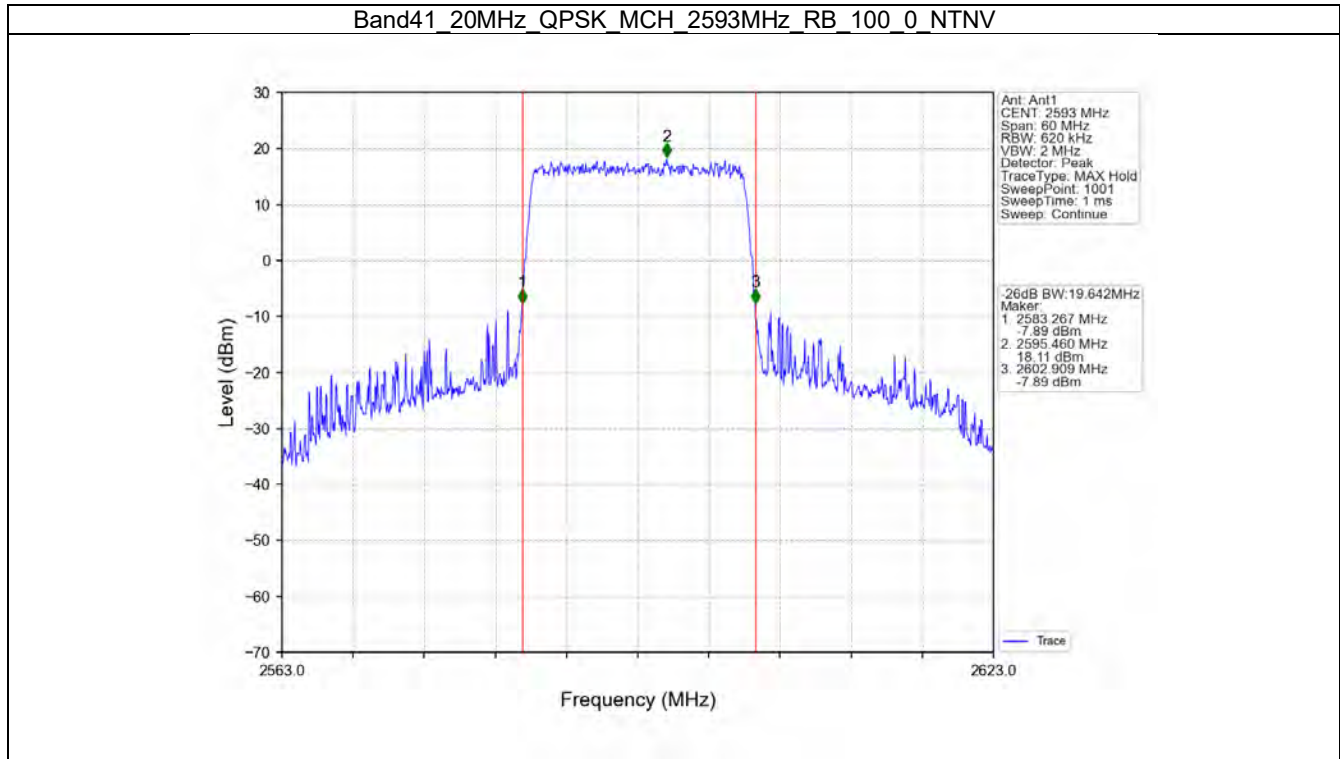


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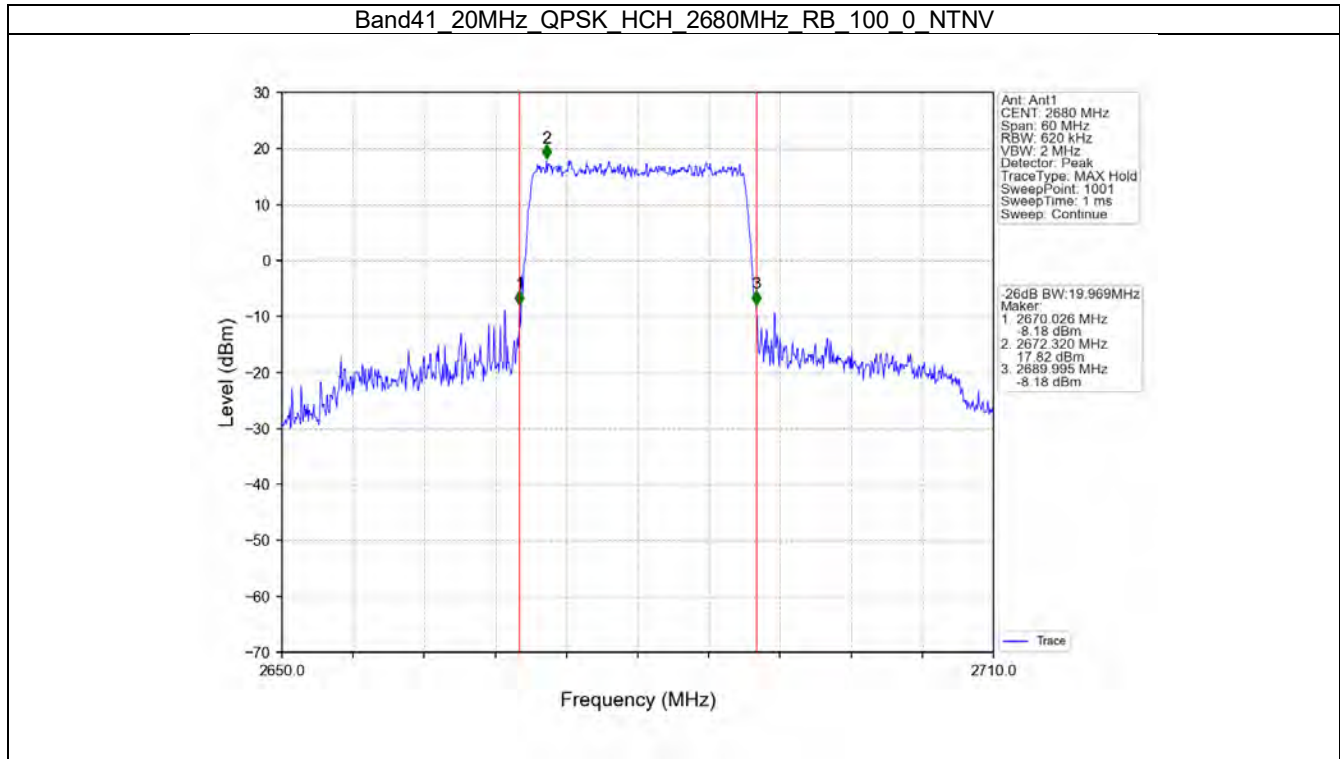


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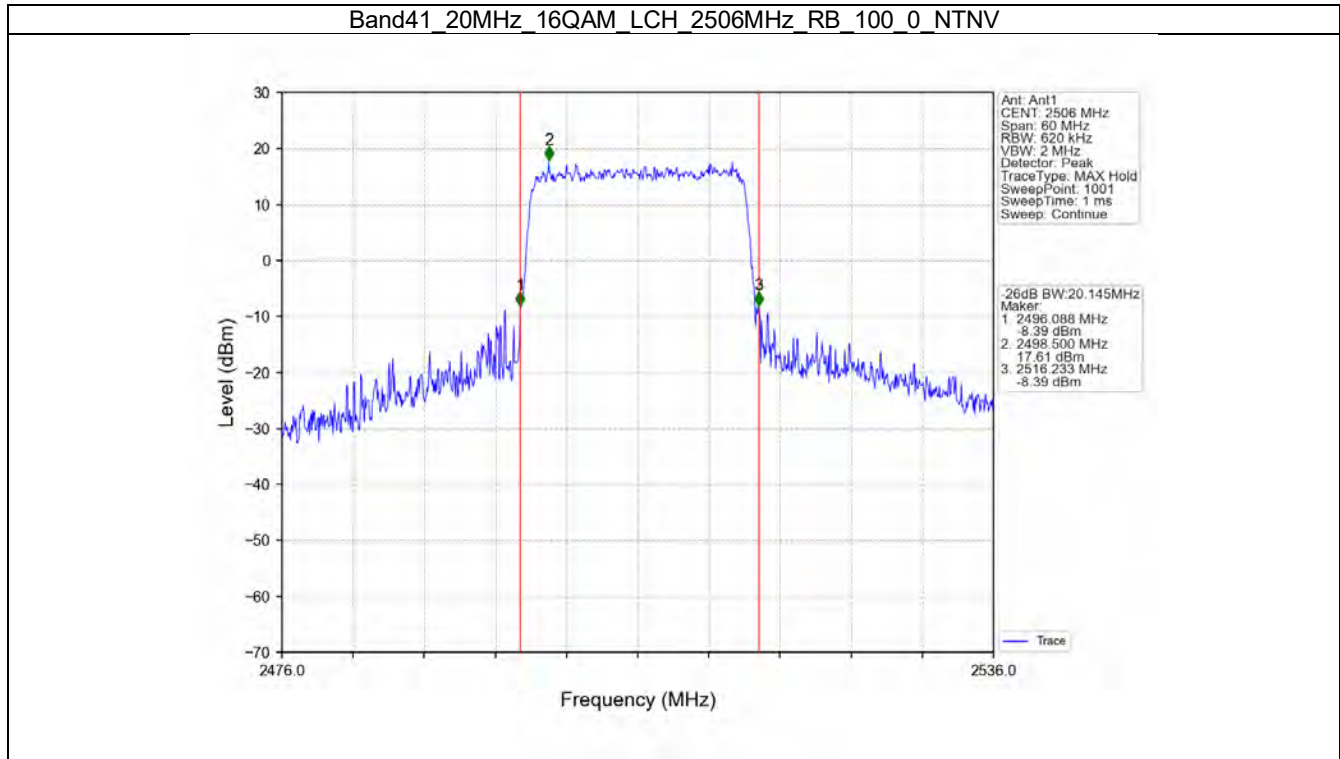


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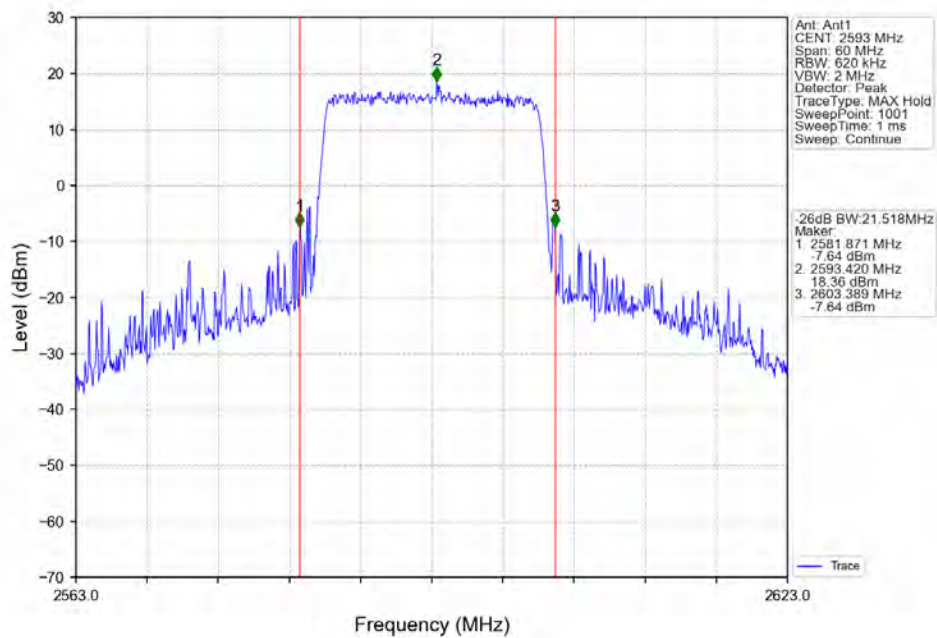
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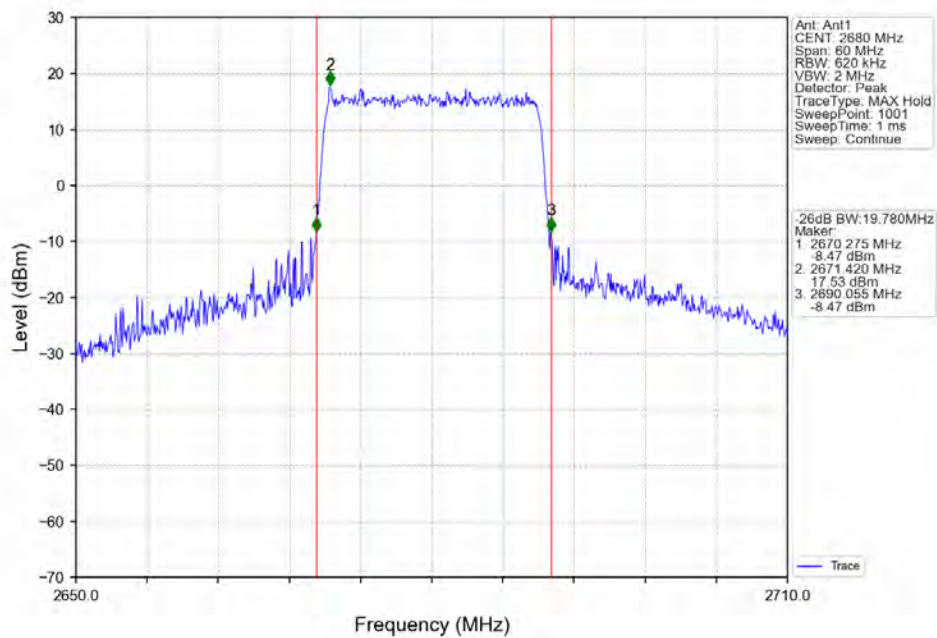
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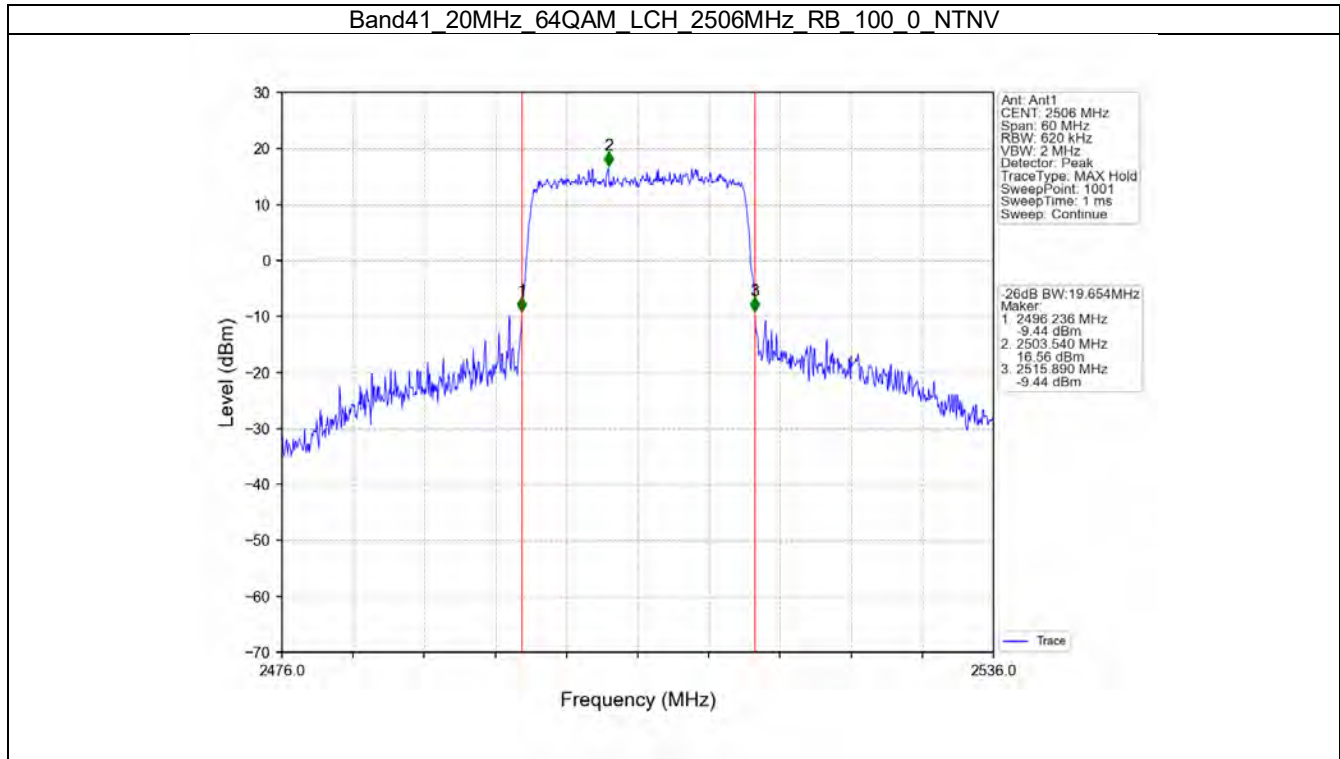


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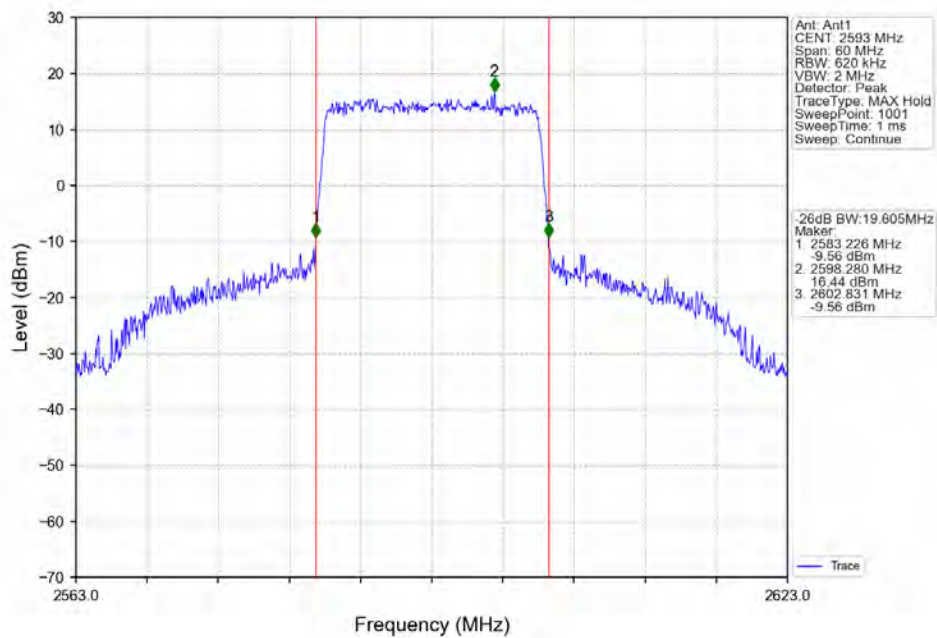
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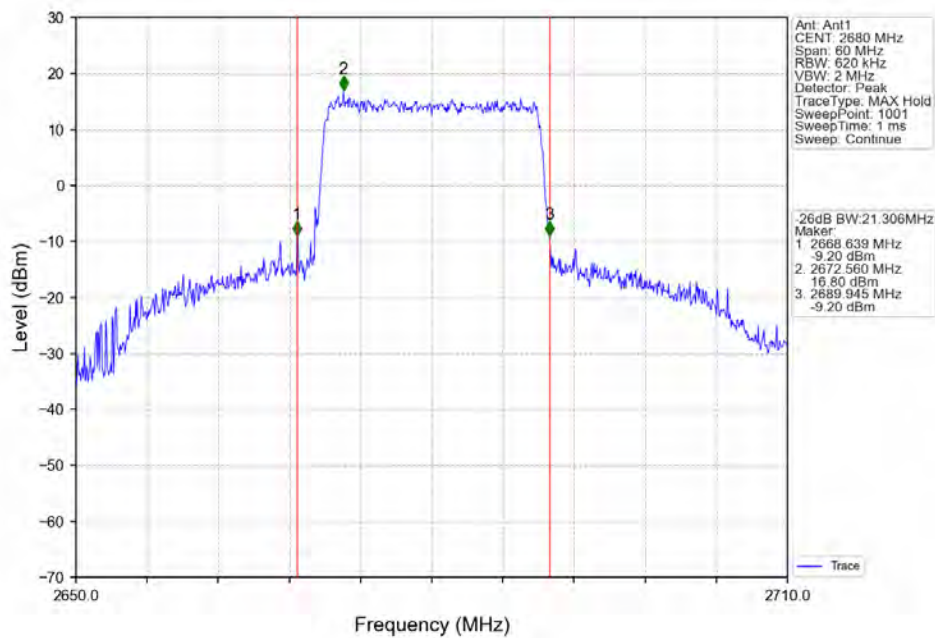
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4. Peak-Average Ratio

4.1 B41_5MHz

4.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2498.5	25	0	7.87	<=13	Pass
	2593	25	0	7.39	<=13	Pass
	2687.5	25	0	7.41	<=13	Pass
16QAM	2498.5	25	0	8.52	<=13	Pass
	2593	25	0	8.08	<=13	Pass
	2687.5	25	0	8.10	<=13	Pass
64QAM	2498.5	25	0	8.08	<=13	Pass
	2593	25	0	7.81	<=13	Pass
	2687.5	25	0	7.89	<=13	Pass



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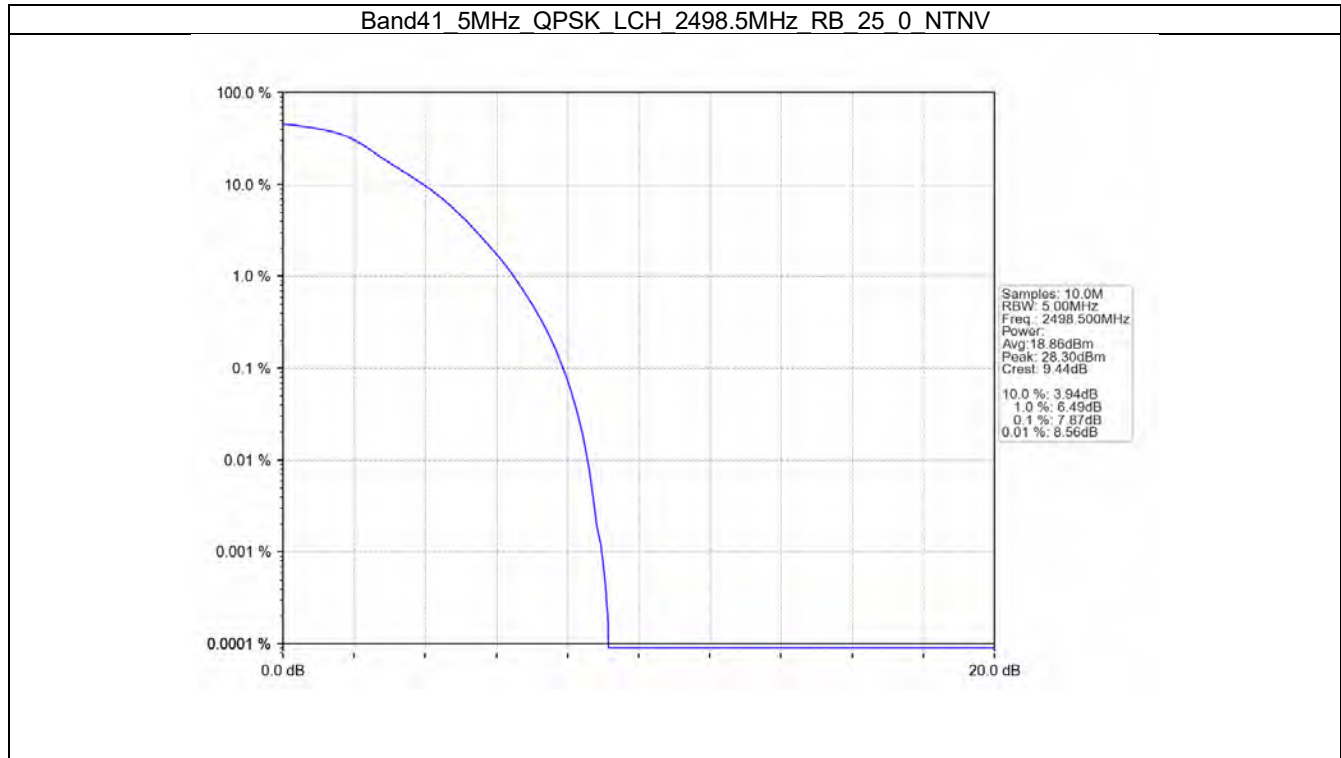
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4.1.2 Test Graph



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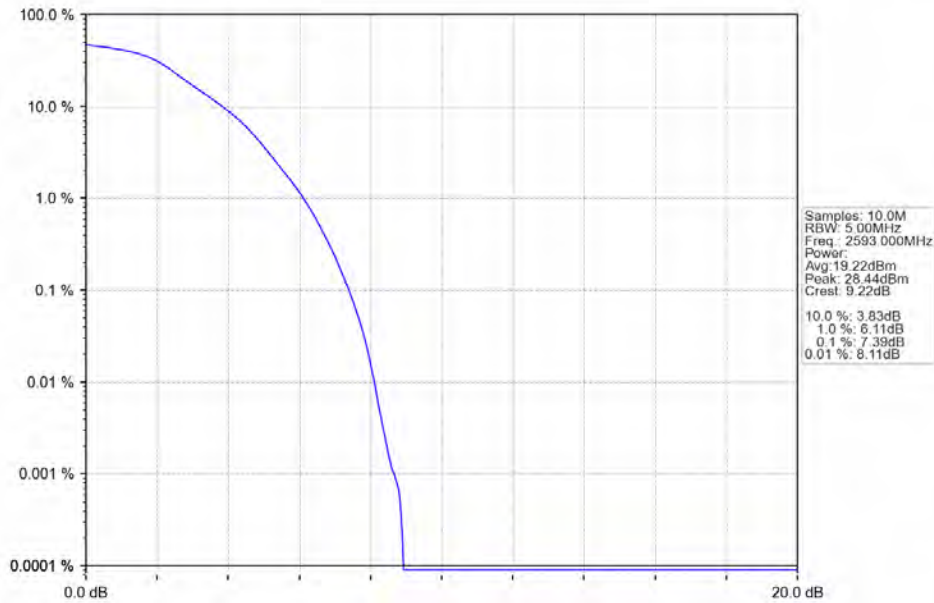
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Band41_5MHz_QPSK_MCH_2593MHz_RB_25_0_NTNV



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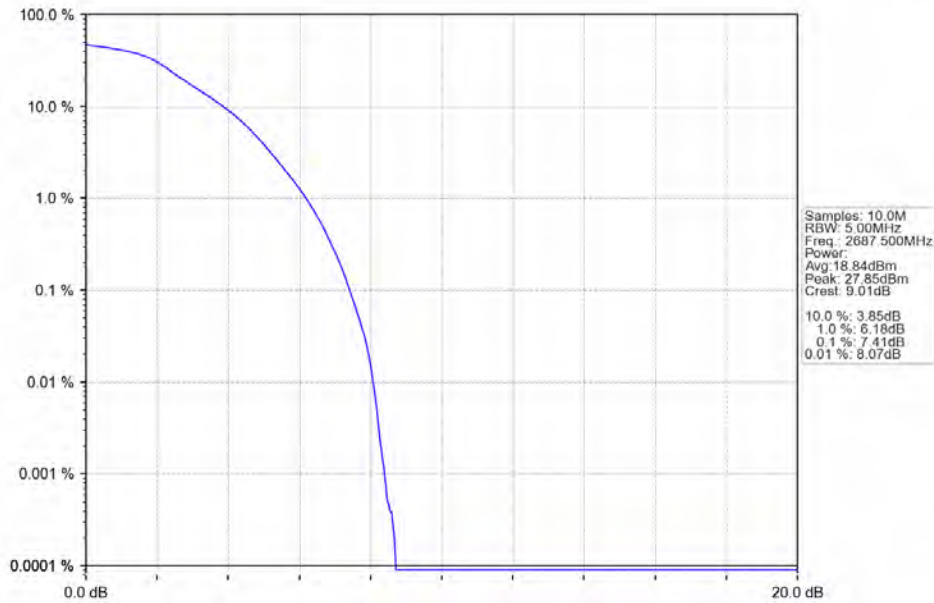
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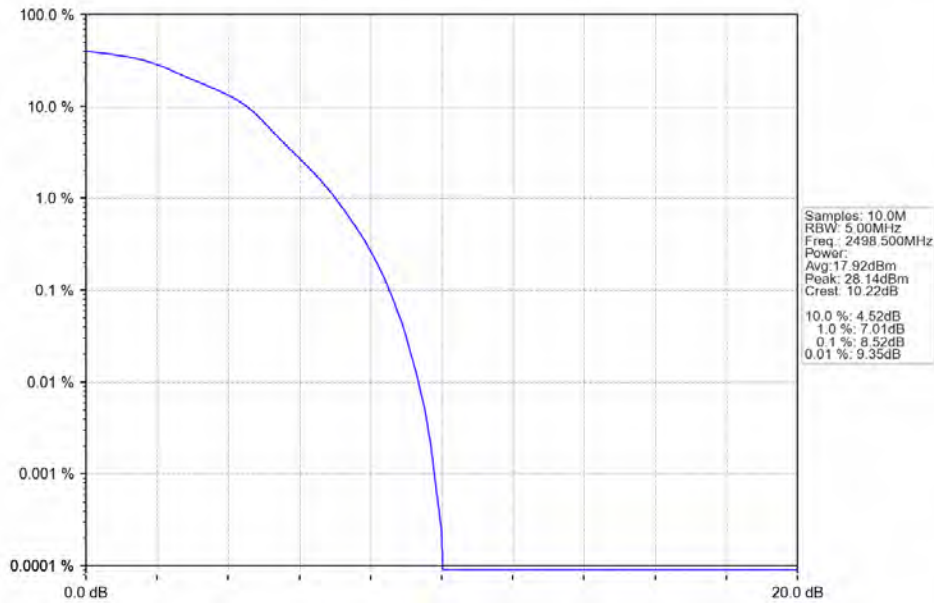
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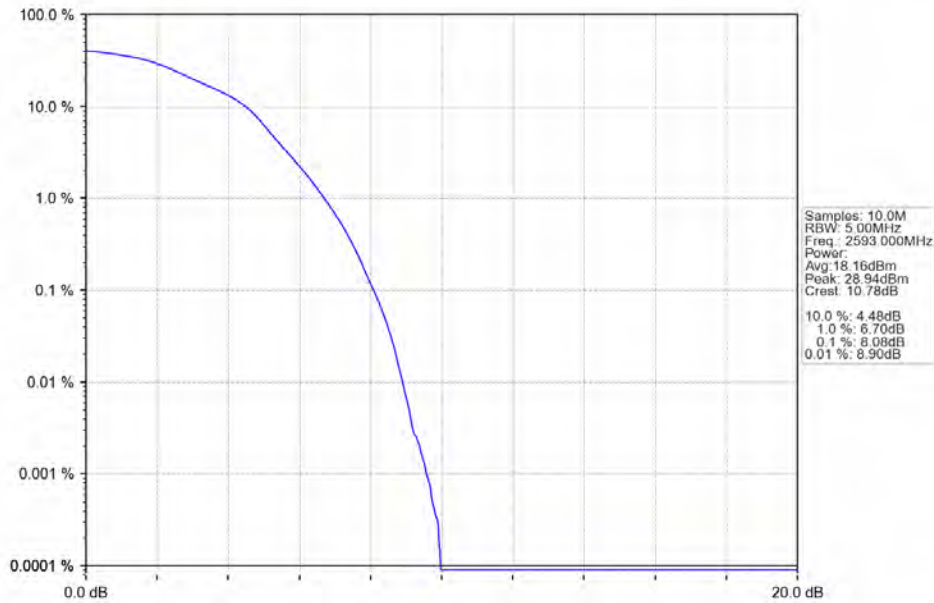
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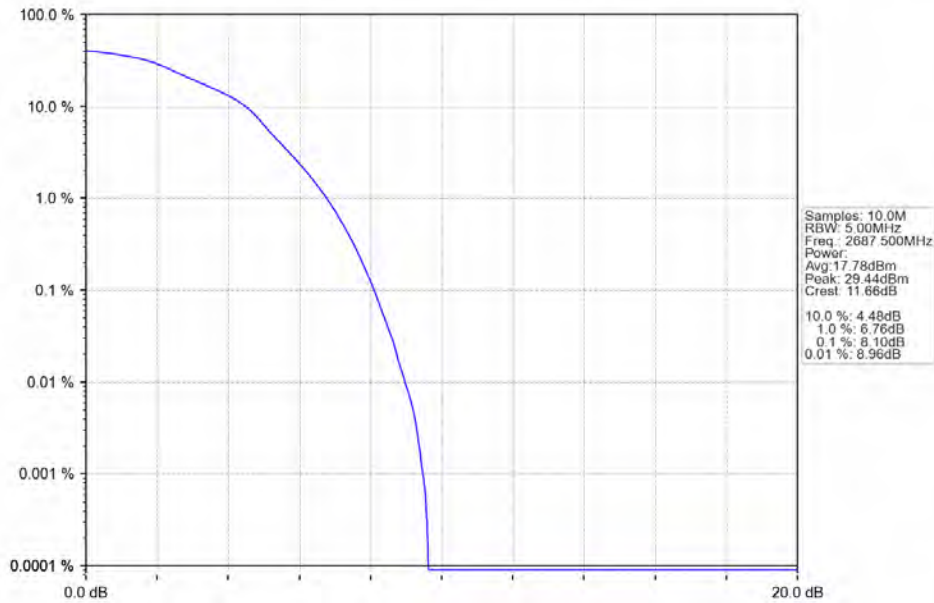
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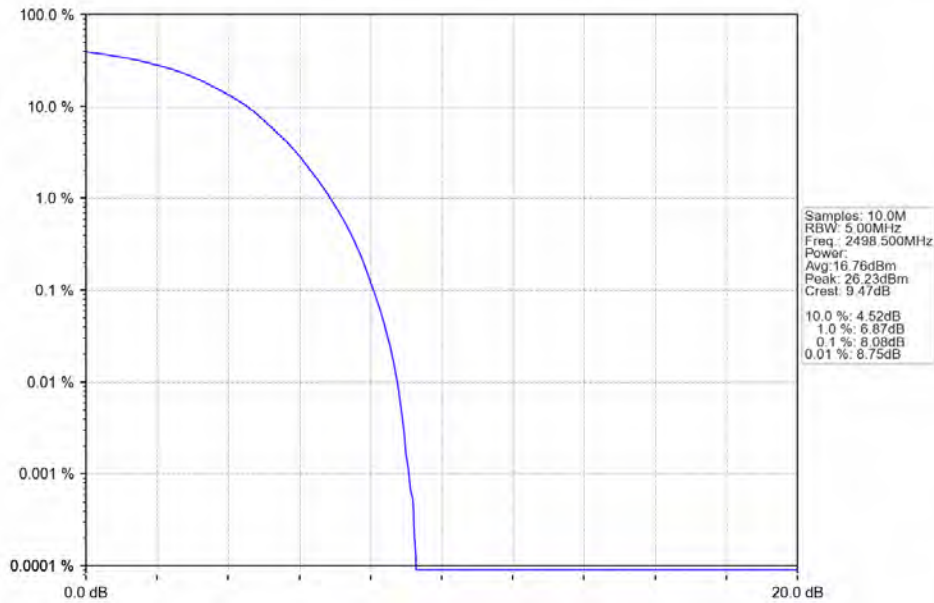
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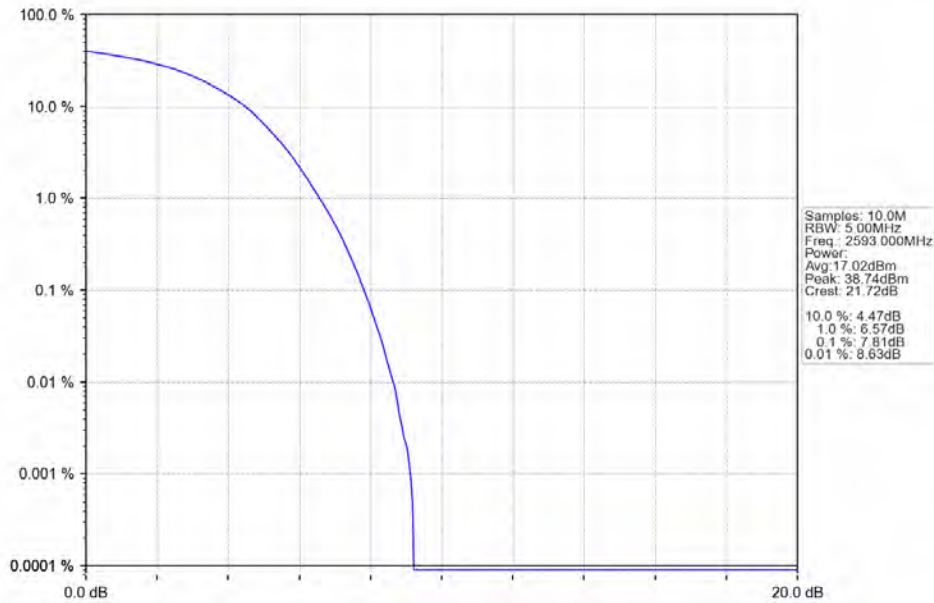
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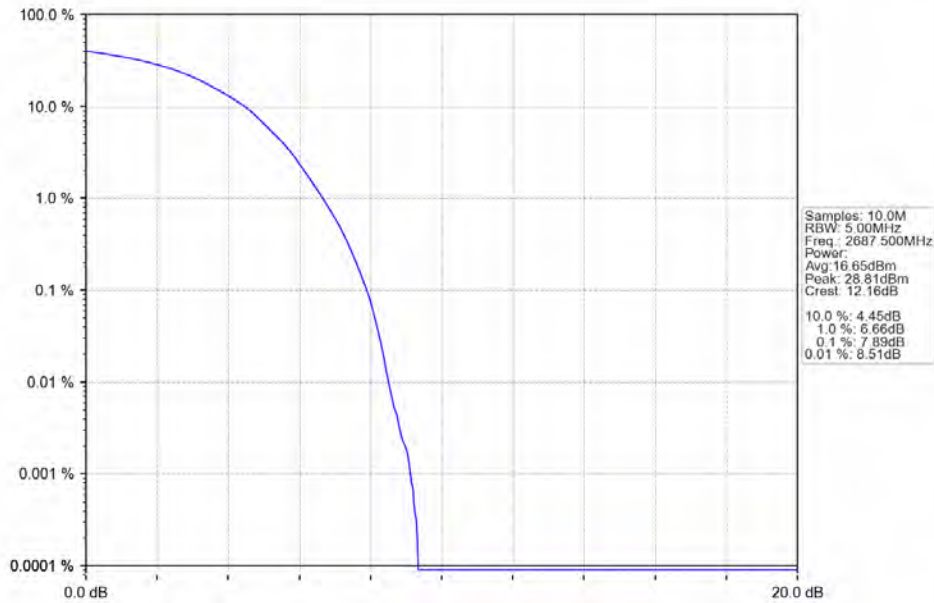
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4.2 B41_10MHz

4.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2501	50	0	7.85	<=13	Pass
	2593	50	0	7.41	<=13	Pass
	2685	50	0	7.50	<=13	Pass
16QAM	2501	50	0	8.28	<=13	Pass
	2593	50	0	8.07	<=13	Pass
	2685	50	0	8.36	<=13	Pass
64QAM	2501	50	0	8.01	<=13	Pass
	2593	50	0	7.72	<=13	Pass
	2685	50	0	8.02	<=13	Pass



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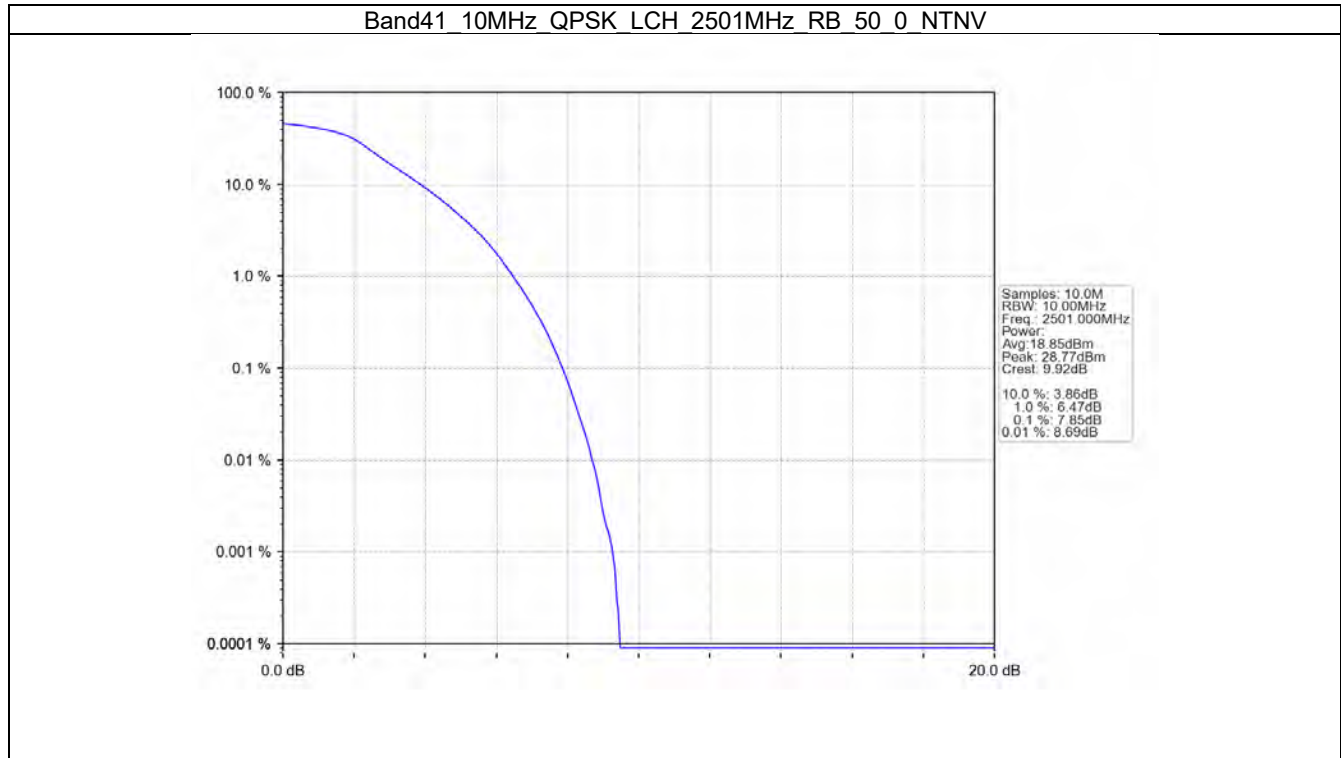
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4.2.2 Test Graph



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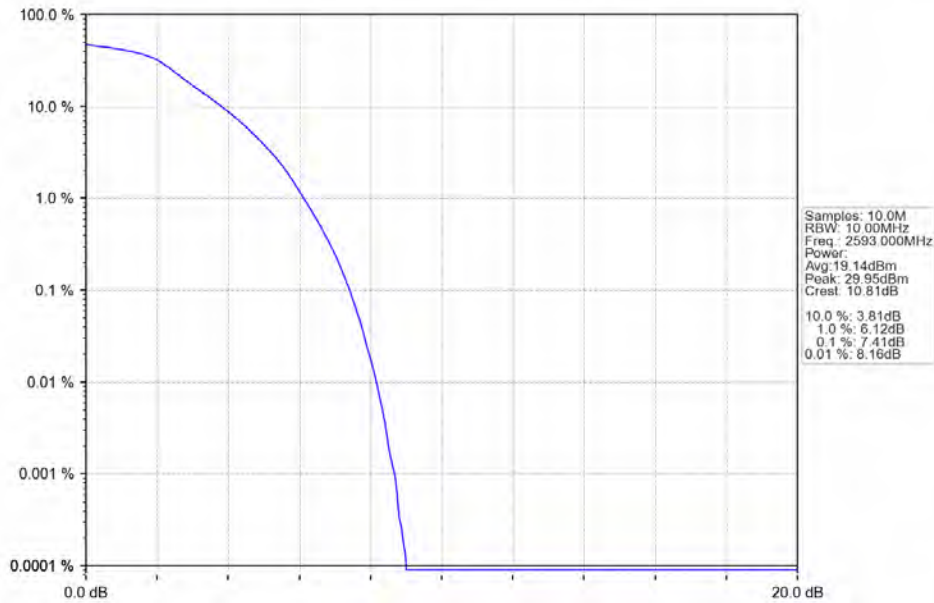
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Band41_10MHz_QPSK_MCH_2593MHz_RB_50_0_NTNV



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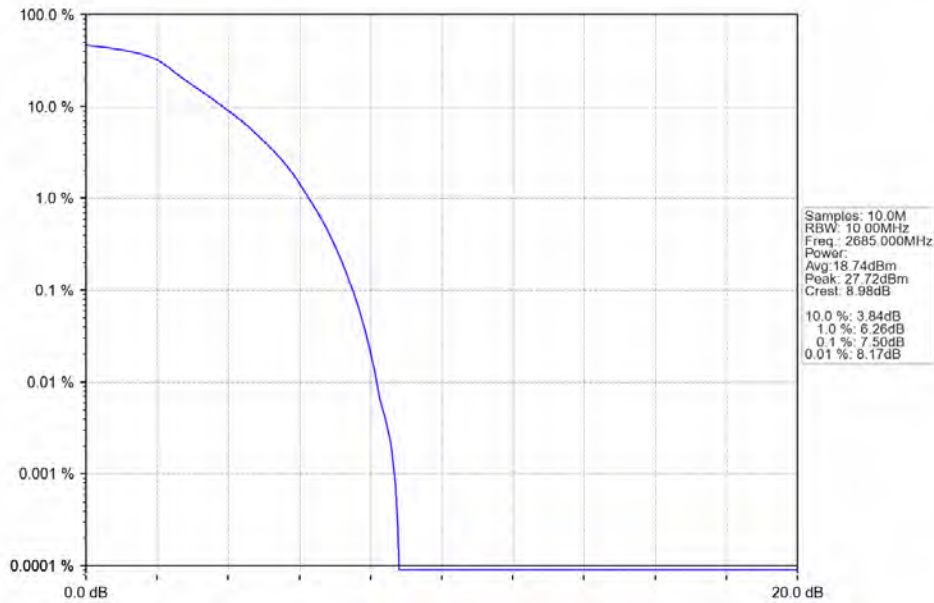
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Band41_10MHz_QPSK_HCH_2685MHz_RB_50_0_NTNV



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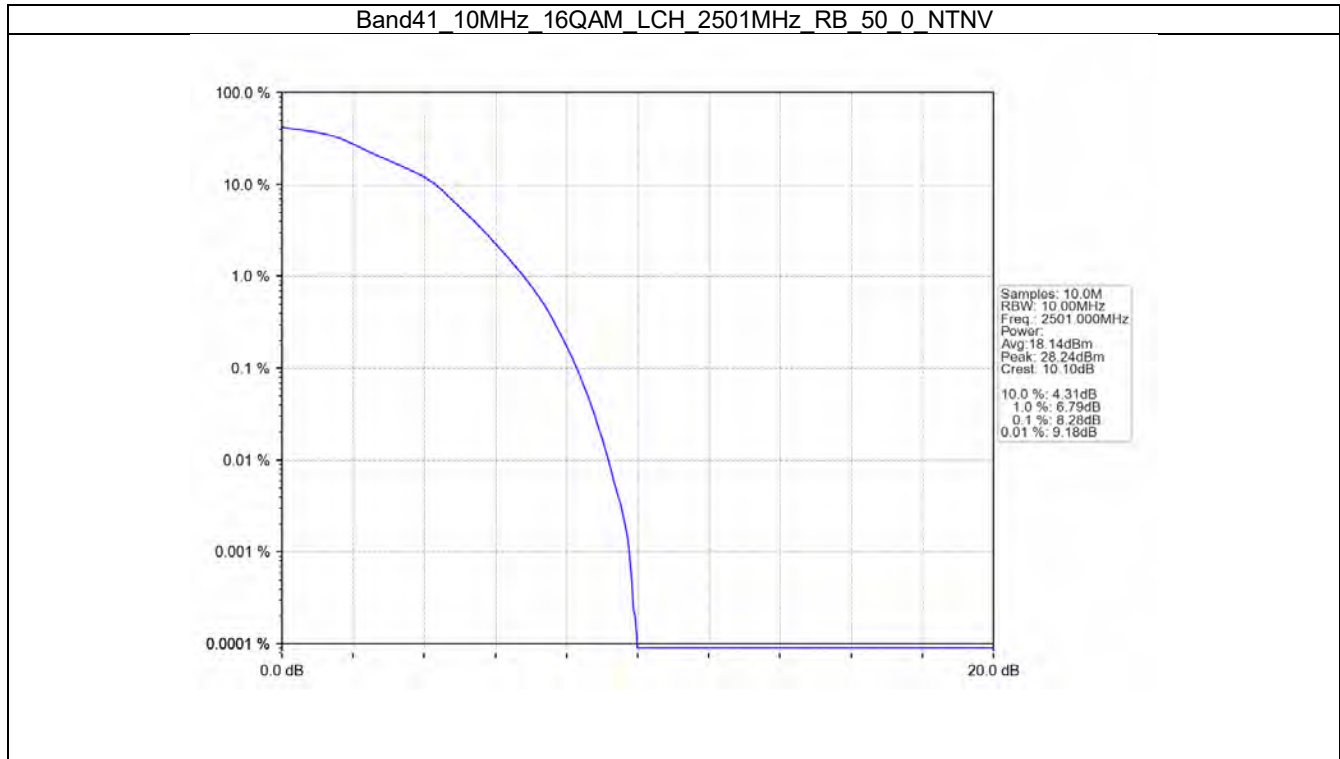


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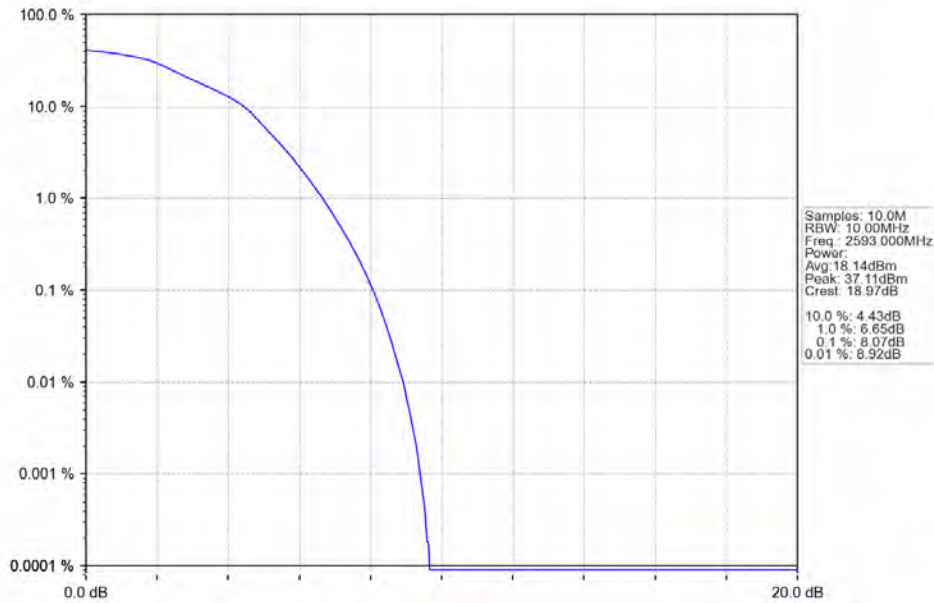
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Band41_10MHz_16QAM_MCH_2593MHz_RB_50_0_NTNV



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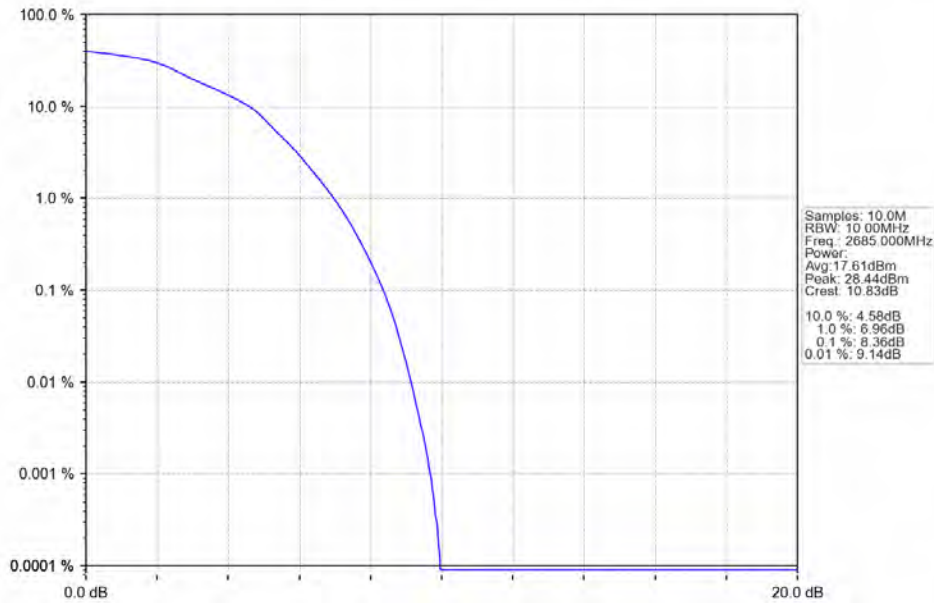
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Band41_10MHz_16QAM_HCH_2685MHz_RB_50_0_NTNV



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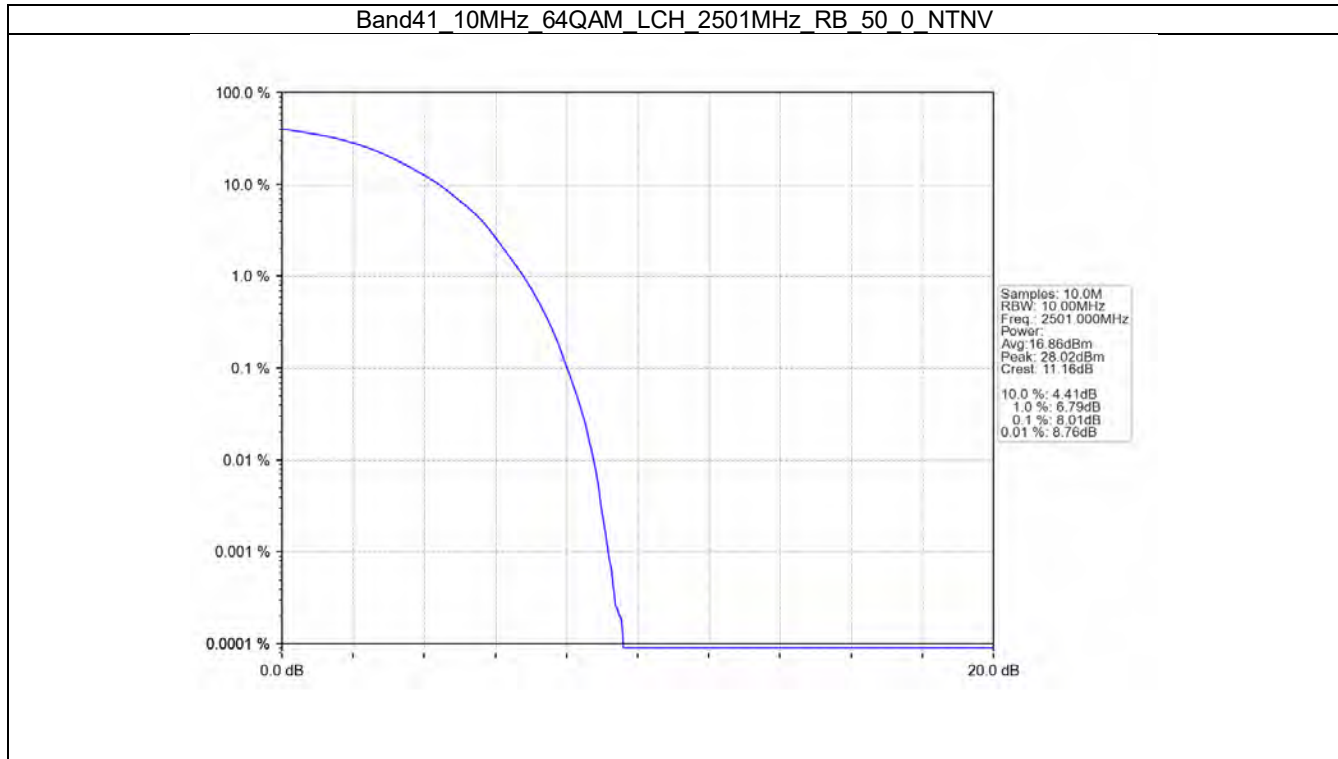


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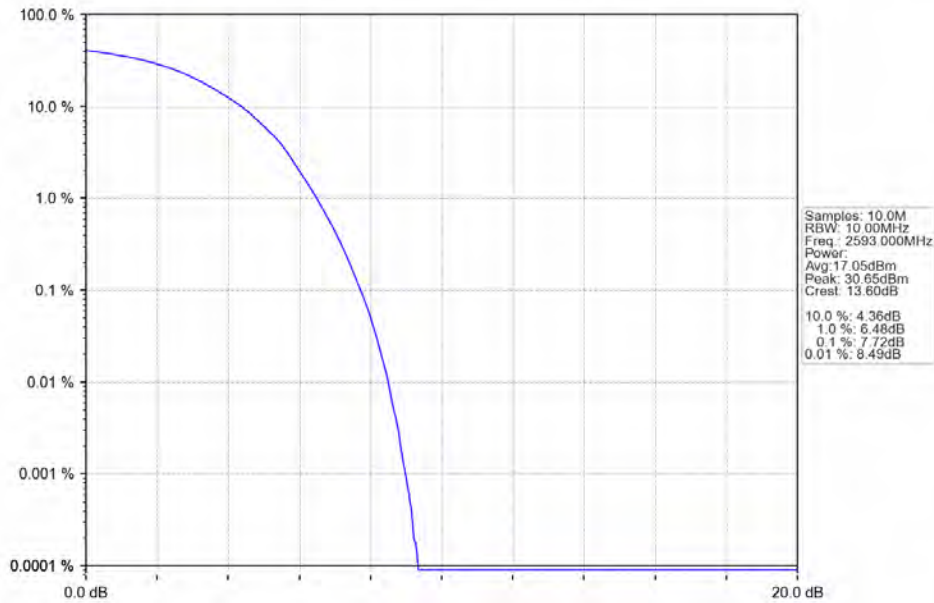
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Band41_10MHz_64QAM_MCH_2593MHz_RB_50_0_NTNV



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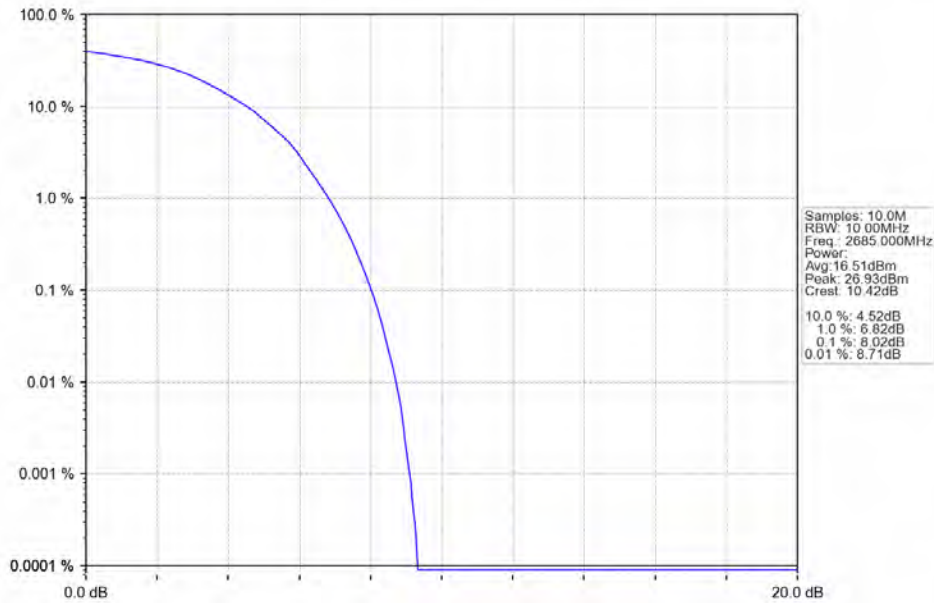
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4.3 B41_15MHz

4.3.1 Test Result

Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2503.5	75	0	8.13	<=13	Pass
	2593	75	0	7.66	<=13	Pass
	2682.5	75	0	7.76	<=13	Pass
16QAM	2503.5	75	0	8.71	<=13	Pass
	2593	75	0	12.01	<=13	Pass
	2682.5	75	0	8.16	<=13	Pass
64QAM	2503.5	75	0	8.21	<=13	Pass
	2593	75	0	7.89	<=13	Pass
	2682.5	75	0	8.07	<=13	Pass



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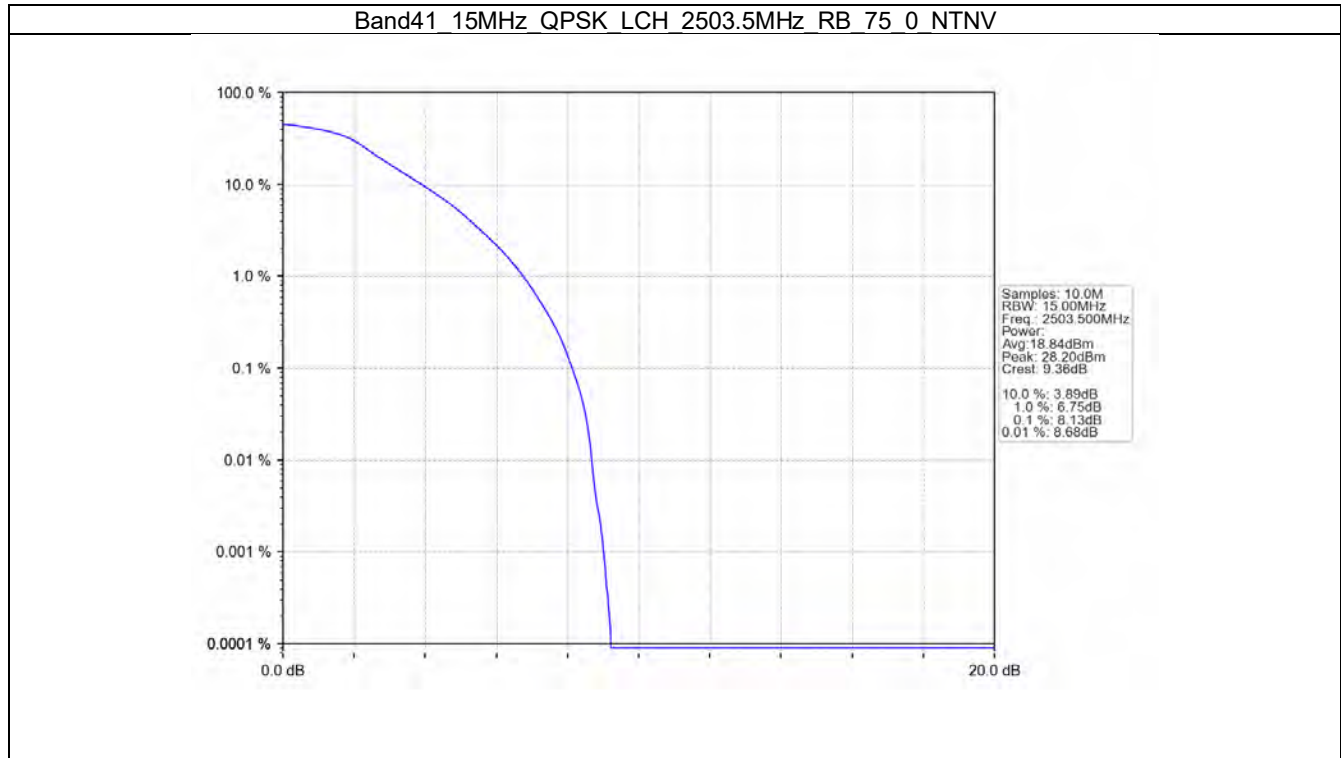
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4.3.2 Test Graph



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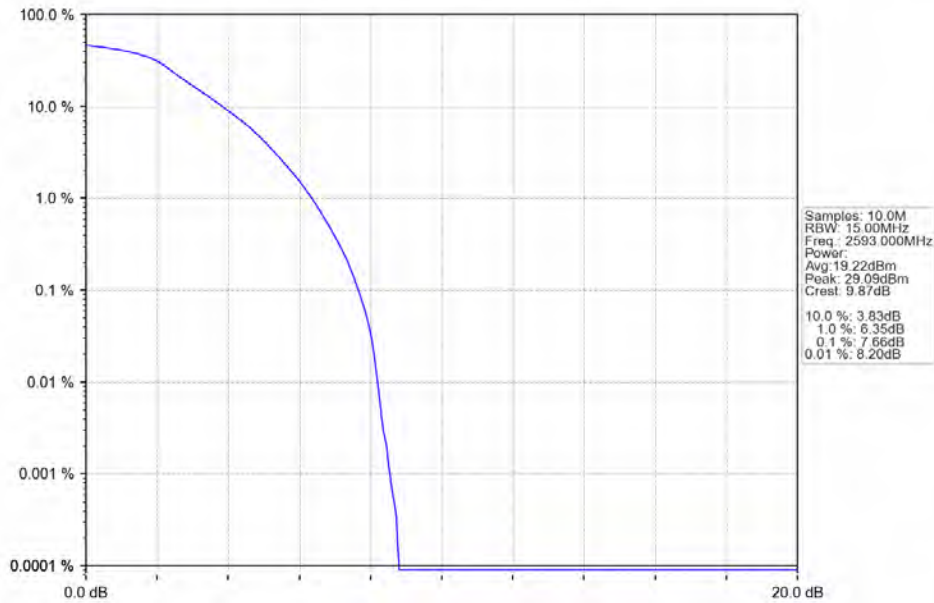
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Band41_15MHz_QPSK_MCH_2593MHz_RB_75_0_NTNV



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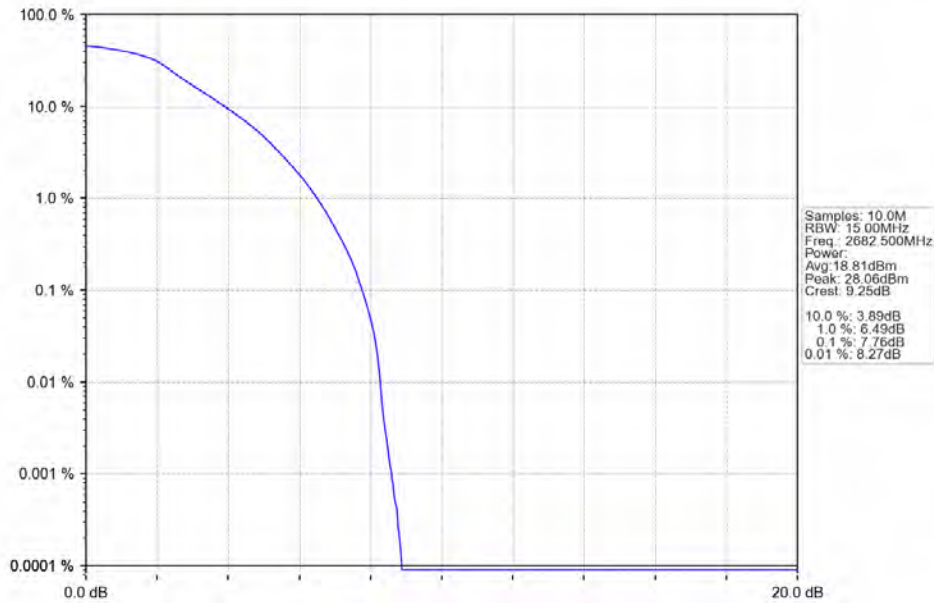
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Band41_15MHz_QPSK_HCH_2682.5MHz_RB_75_0_NTNV



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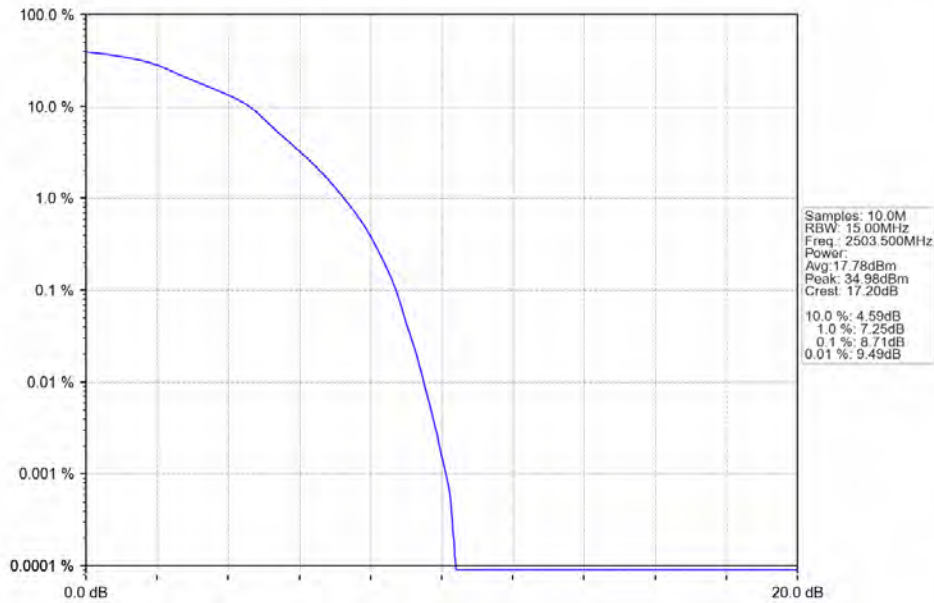
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Band41_15MHz_16QAM_LCH_2503.5MHz_RB_75_0_NTNV



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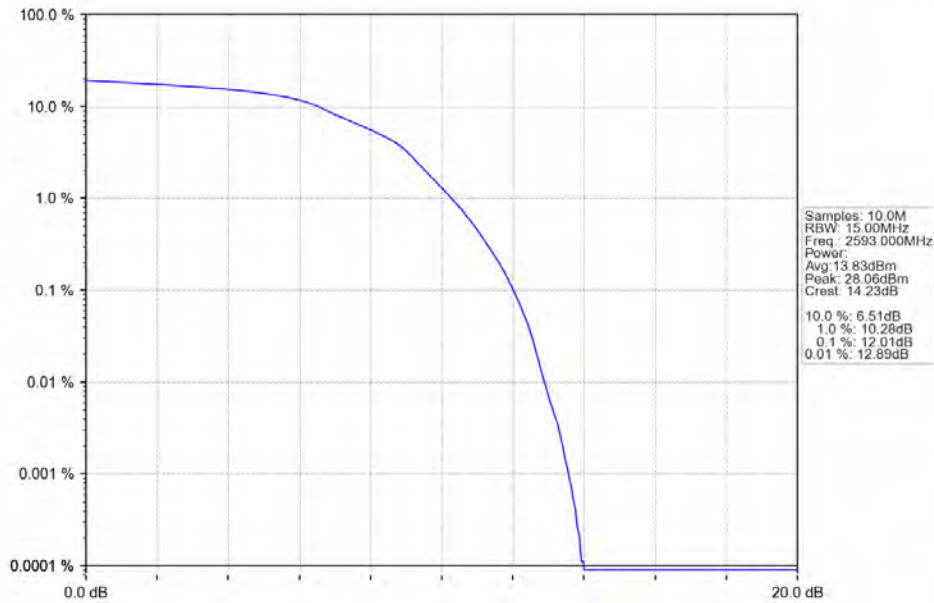
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Band41_15MHz_16QAM_MCH_2593MHz_RB_75_0_NTNV



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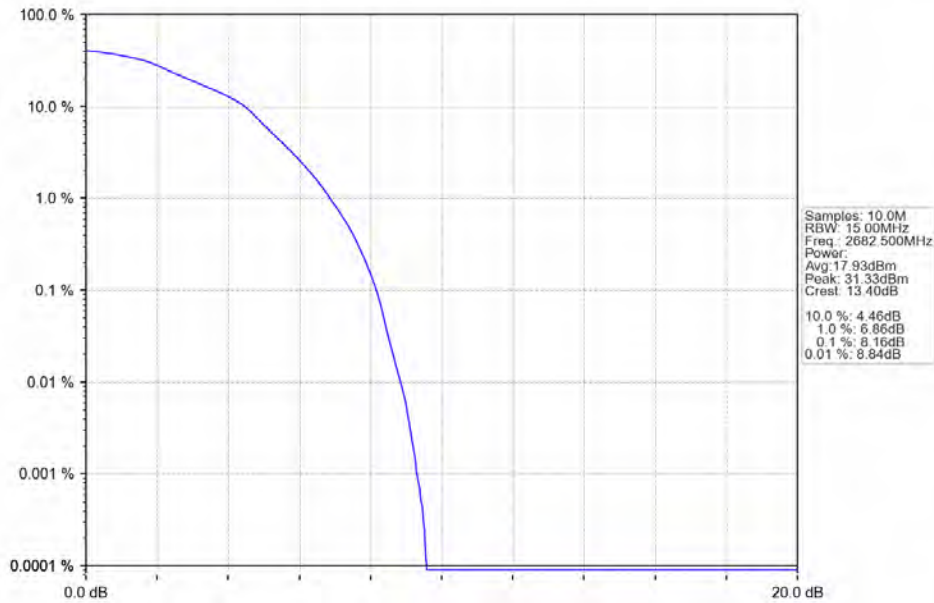
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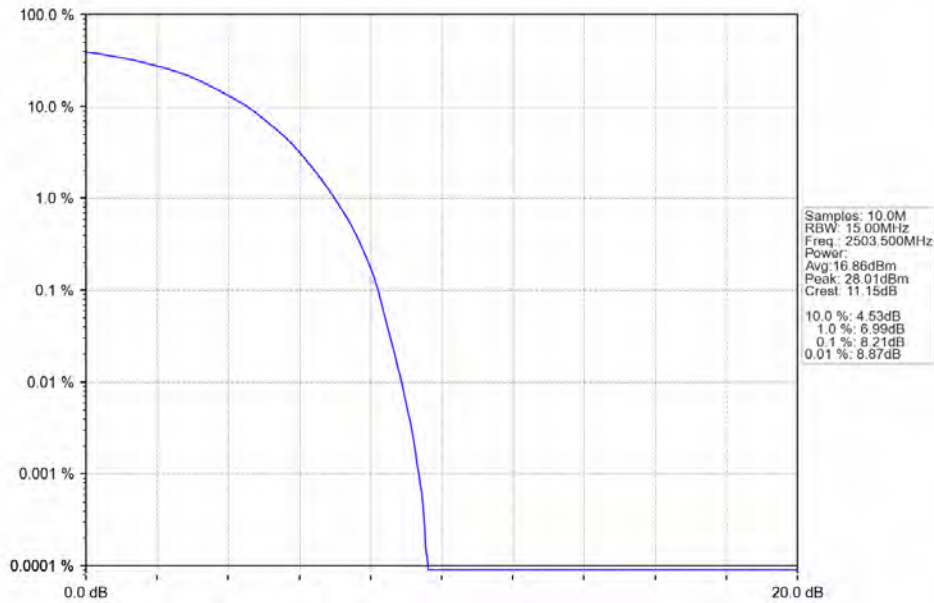
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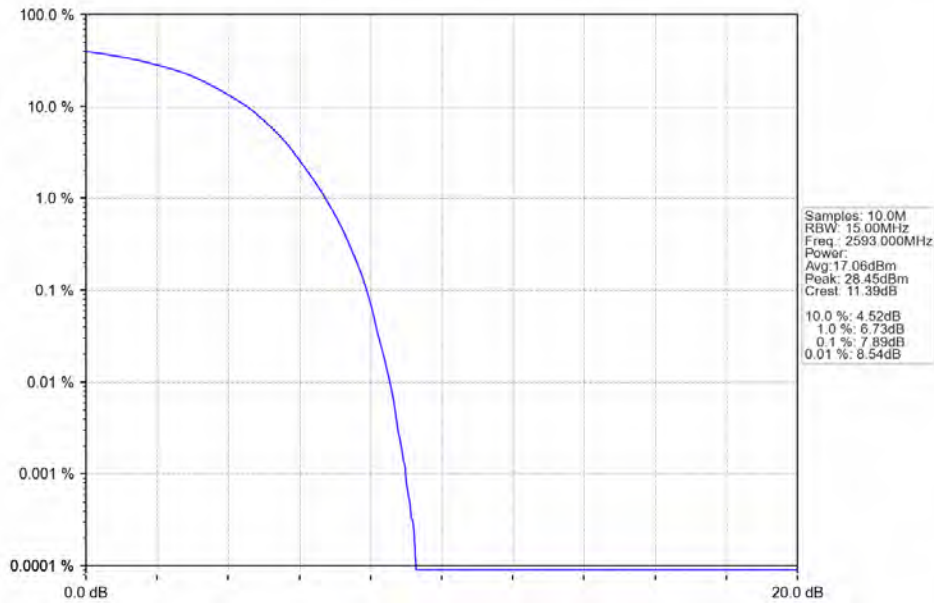
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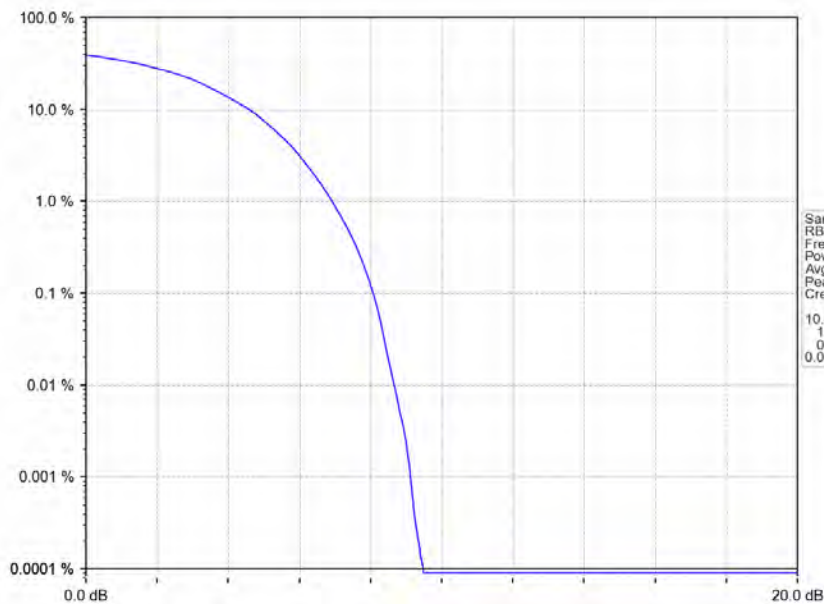
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Samples: 10.0M
RBW: 15.00MHz
Freq: 2682.500MHz
Power:
Avg: 16.62dBm
Peak: 26.25dBm
Crest: 9.67dB
10.0 %: 4.58dB
1.0 %: 6.92dB
0.1 %: 8.07dB
0.01 %: 8.66dB



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4.4 B41_20MHz

4.4.1 Test Result

Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2506	100	0	7.91	<=13	Pass
	2593	100	0	7.21	<=13	Pass
	2680	100	0	7.44	<=13	Pass
16QAM	2506	100	0	8.59	<=13	Pass
	2593	100	0	8.13	<=13	Pass
	2680	100	0	8.23	<=13	Pass
64QAM	2506	100	0	8.19	<=13	Pass
	2593	100	0	7.58	<=13	Pass
	2680	100	0	7.75	<=13	Pass



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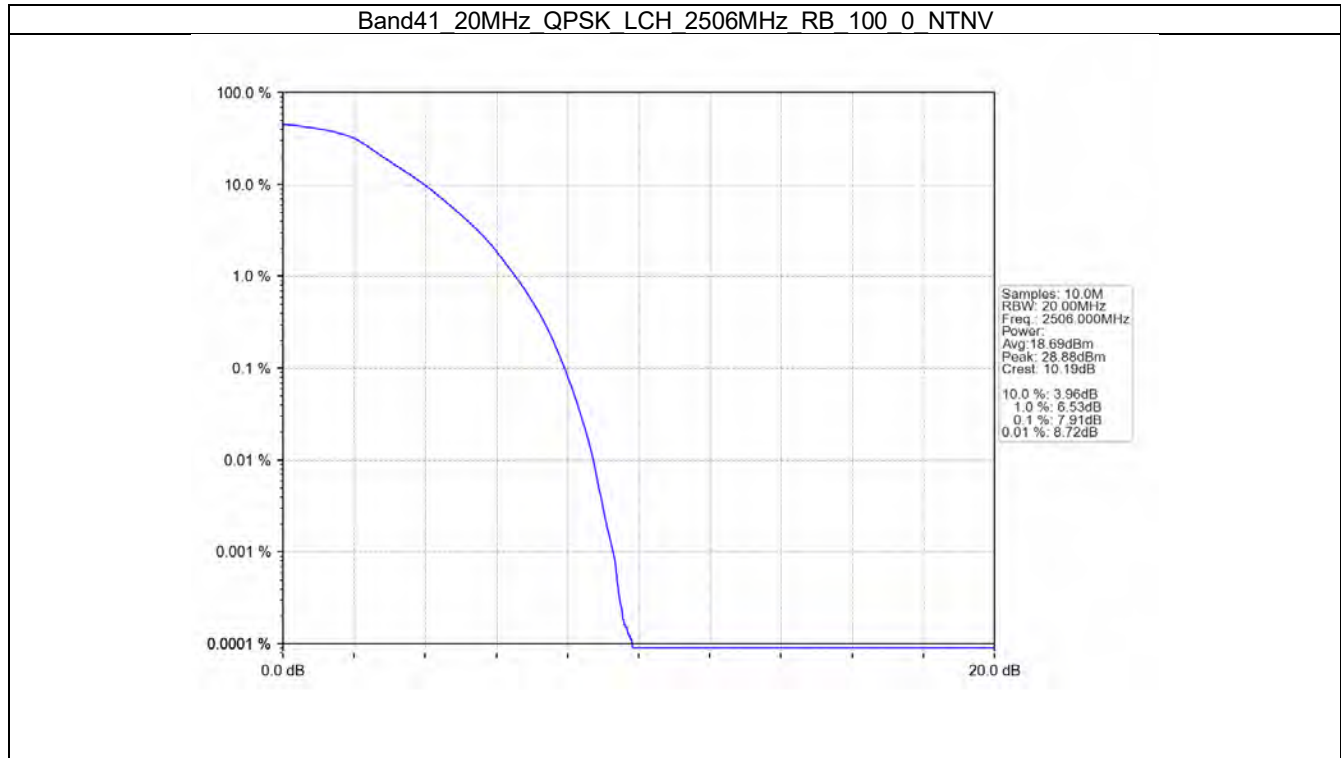
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4.4.2 Test Graph



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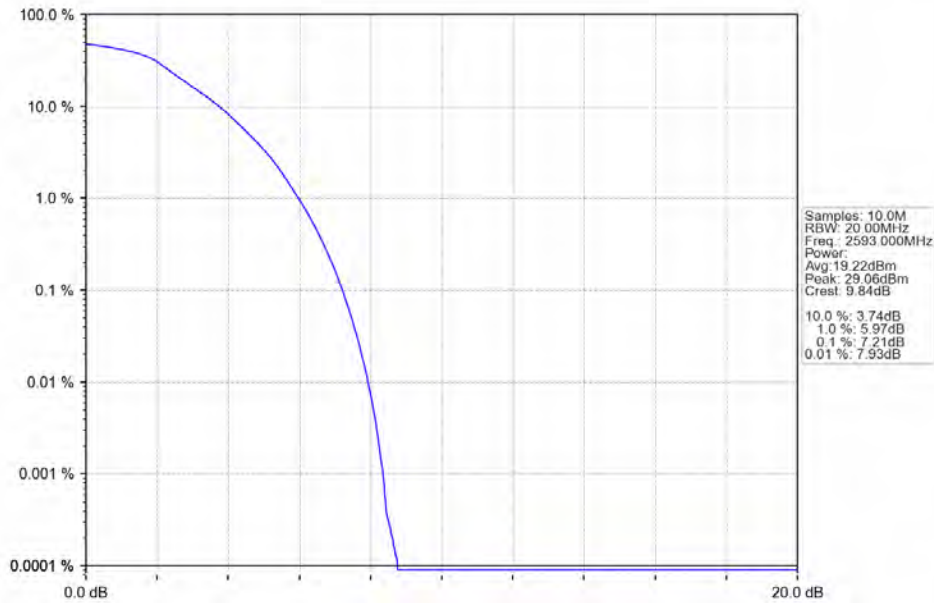
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Band41_20MHz_QPSK_MCH_2593MHz_RB_100_0_NTNV



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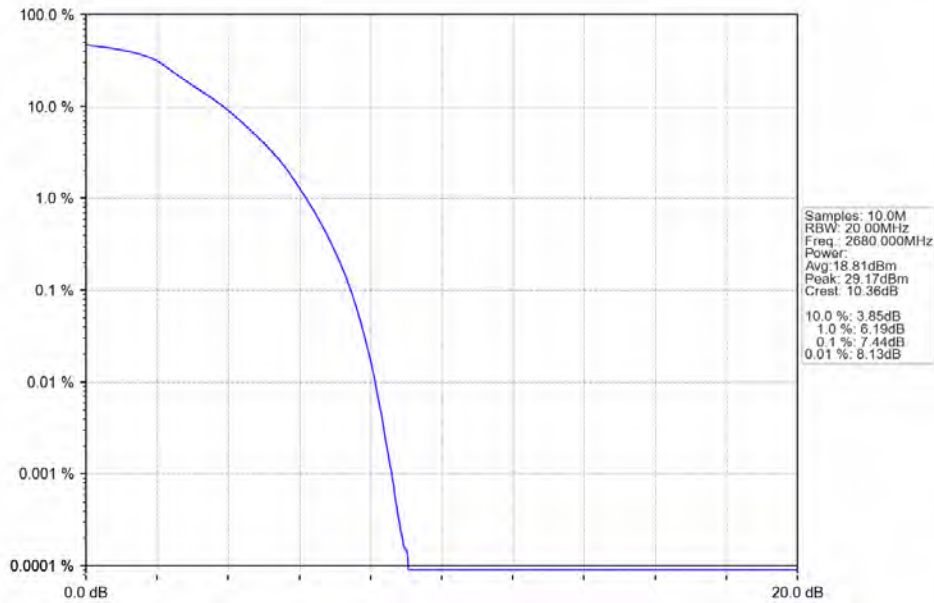
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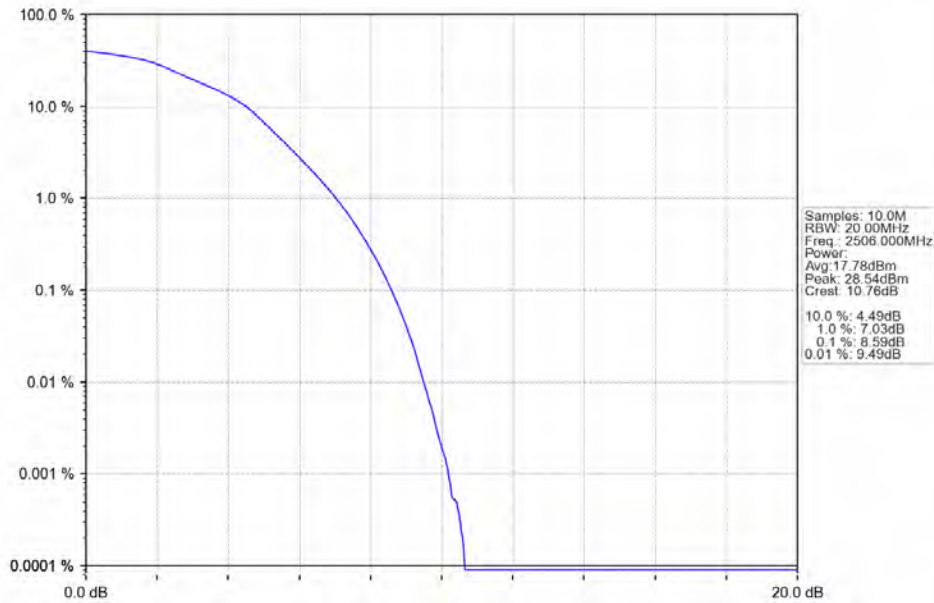
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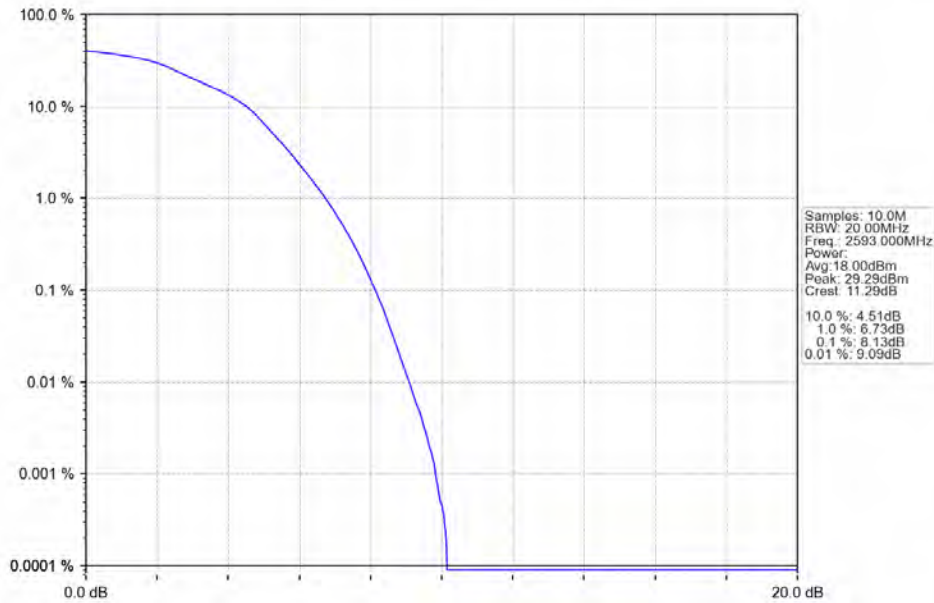
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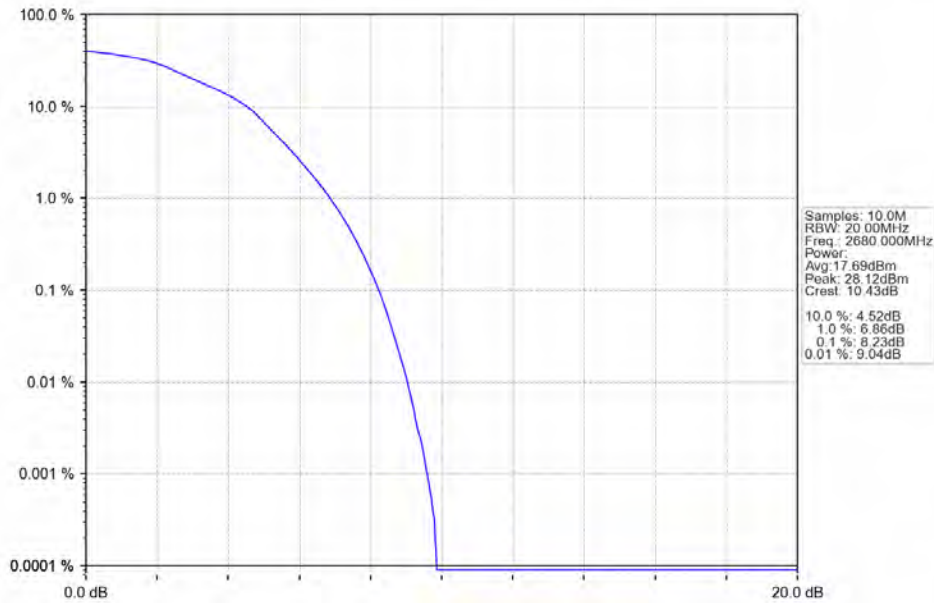
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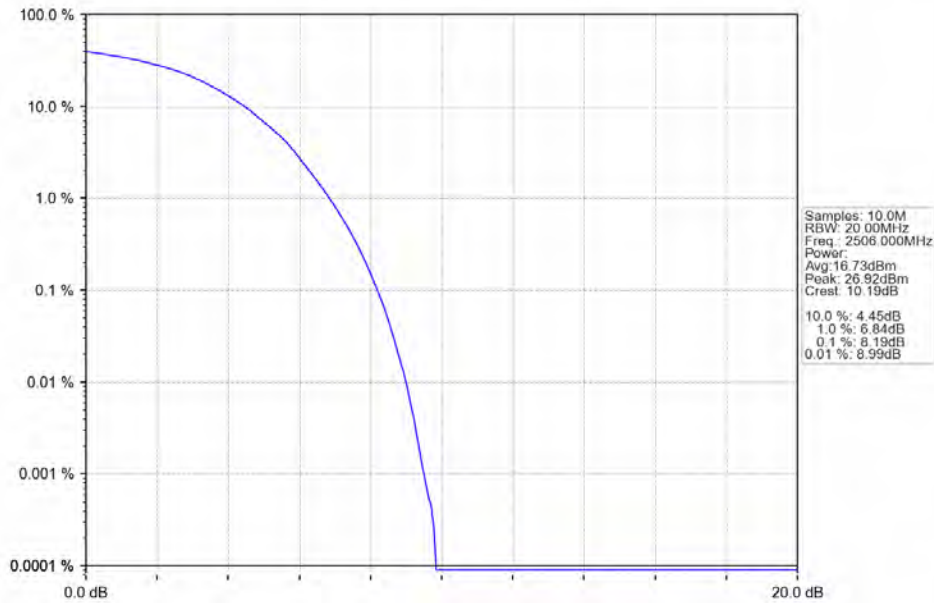
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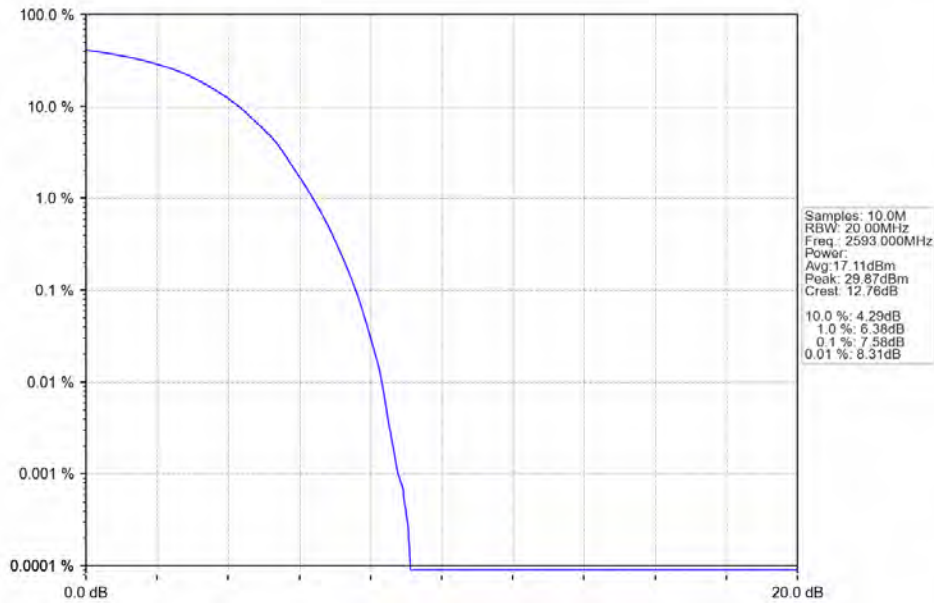
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Band41_20MHz_64QAM_MCH_2593MHz_RB_100_0_NTNV



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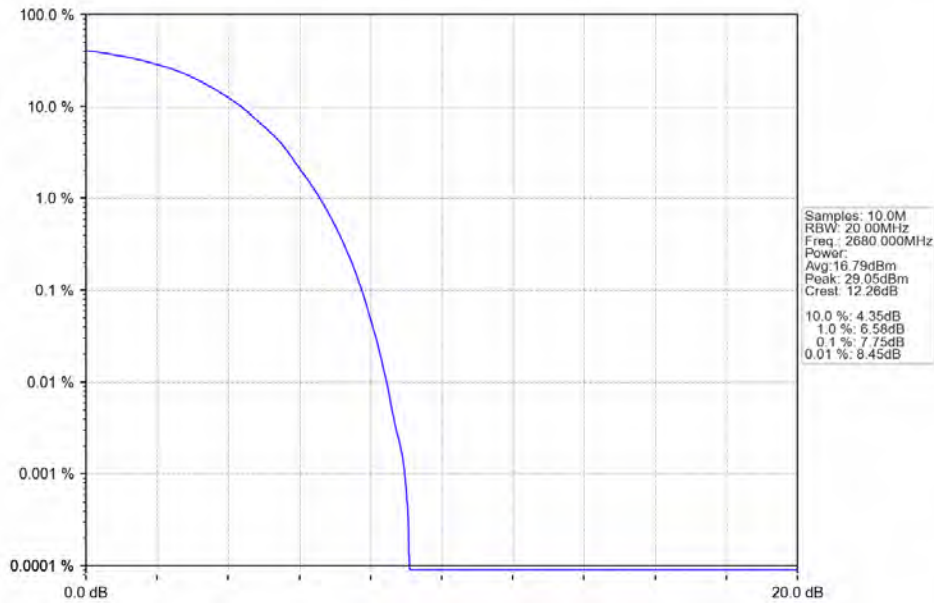
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Band41_20MHz_64QAM_HCH_2680MHz_RB_100_0_NTNV



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5. Spurious Emission & Band Edges

5.1 B41_5MHz

5.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2498.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2687.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	2498.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2687.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
64QAM	2498.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2687.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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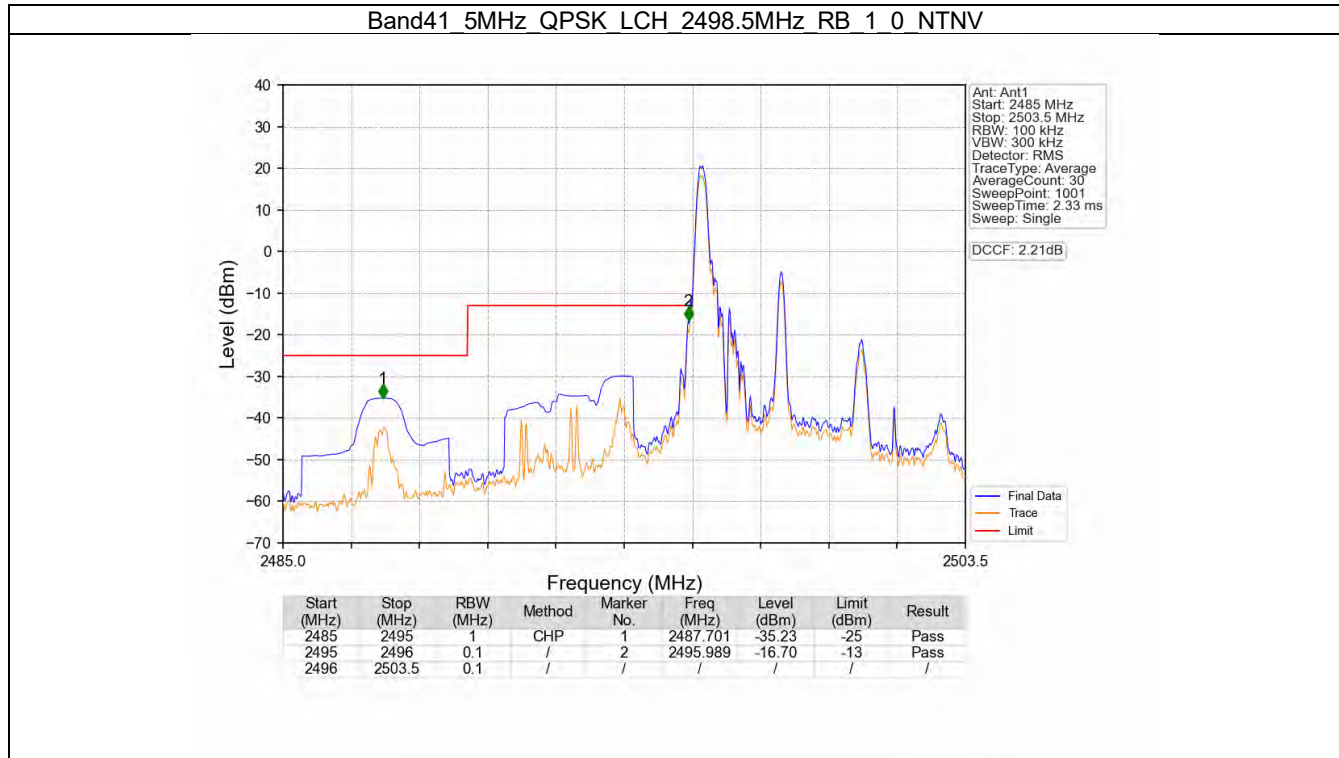
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5.1.2 Test Graph



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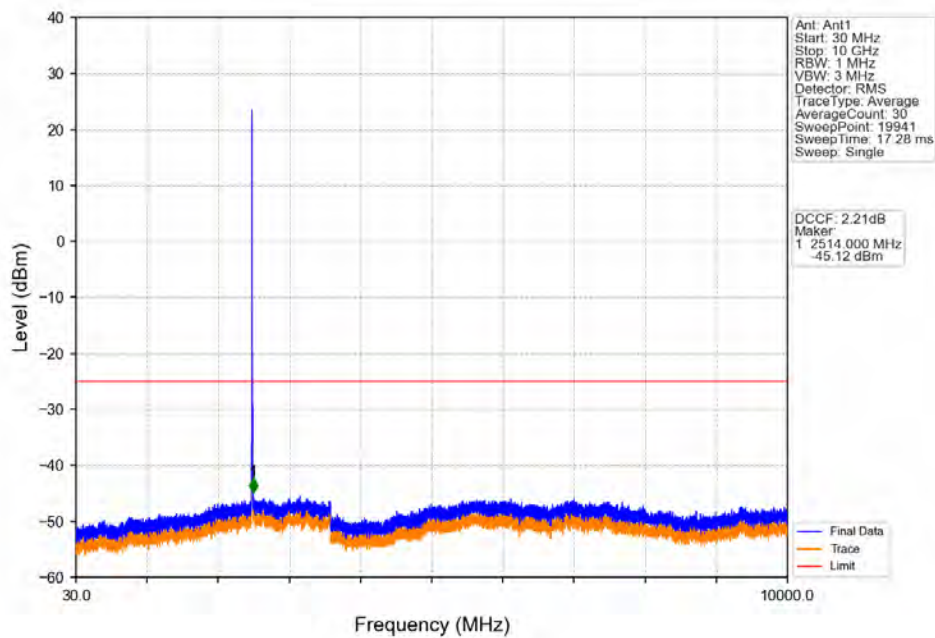
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Band41_5MHz_QPSK_LCH_2498.5MHz_RB_1_0_NTNV



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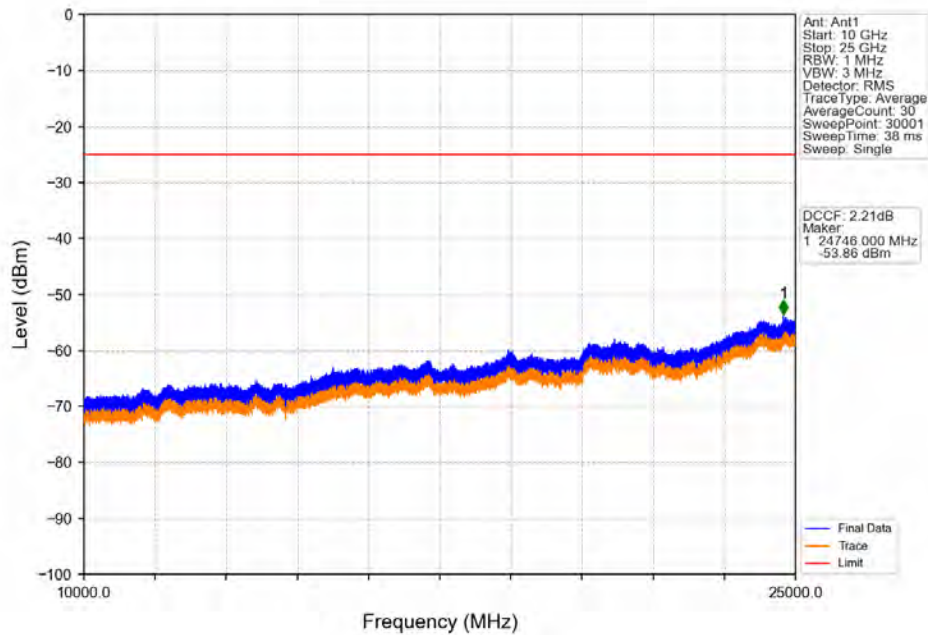
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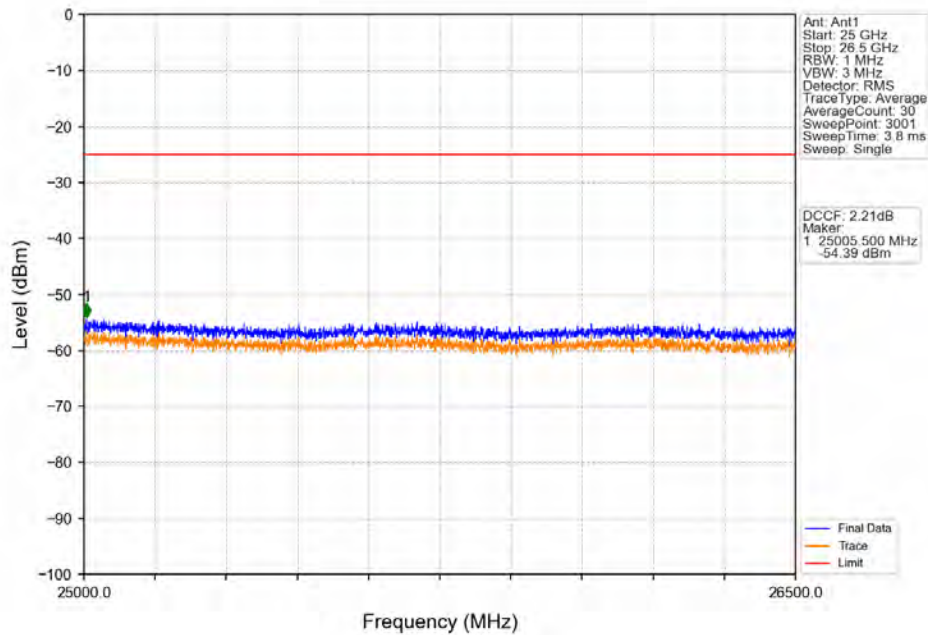
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Band41_5MHz_QPSK_LCH_2498.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2489.495	-34.06	-25	Pass
2495	2496	0.1	/	2	2495.952	-29.52	-13	Pass
2496	2503.5	0.1	/	/	/	/	/	/



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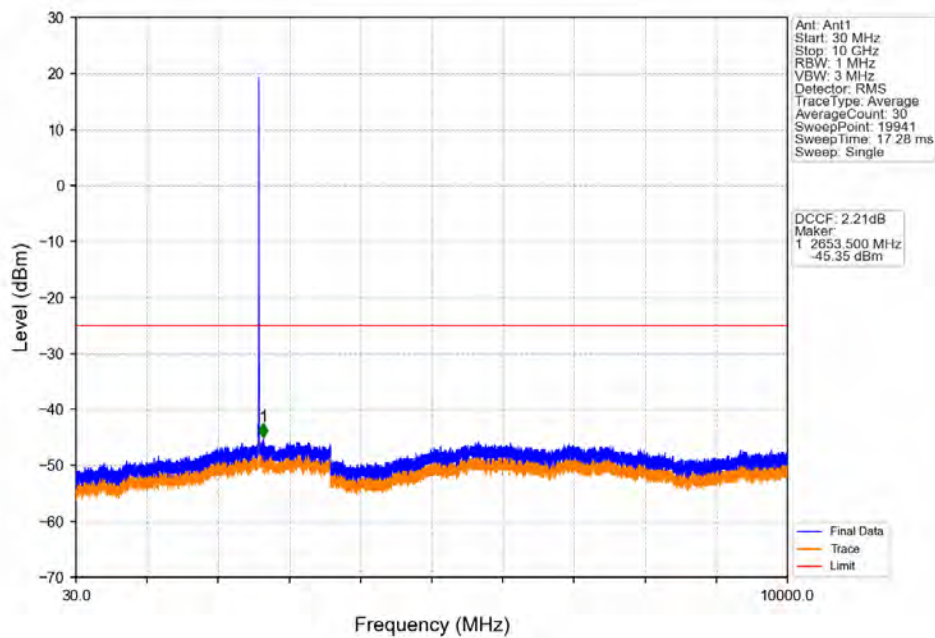
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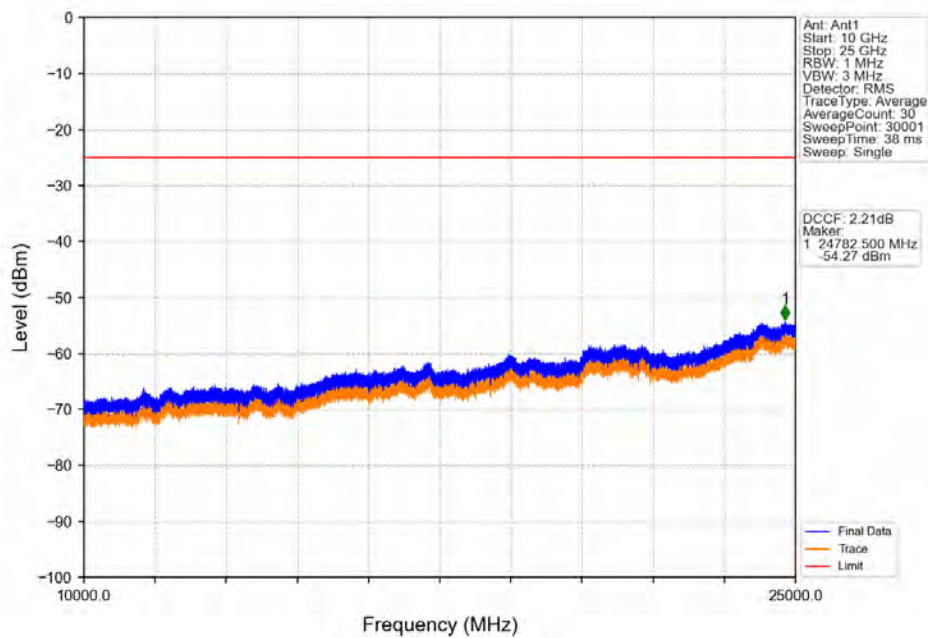
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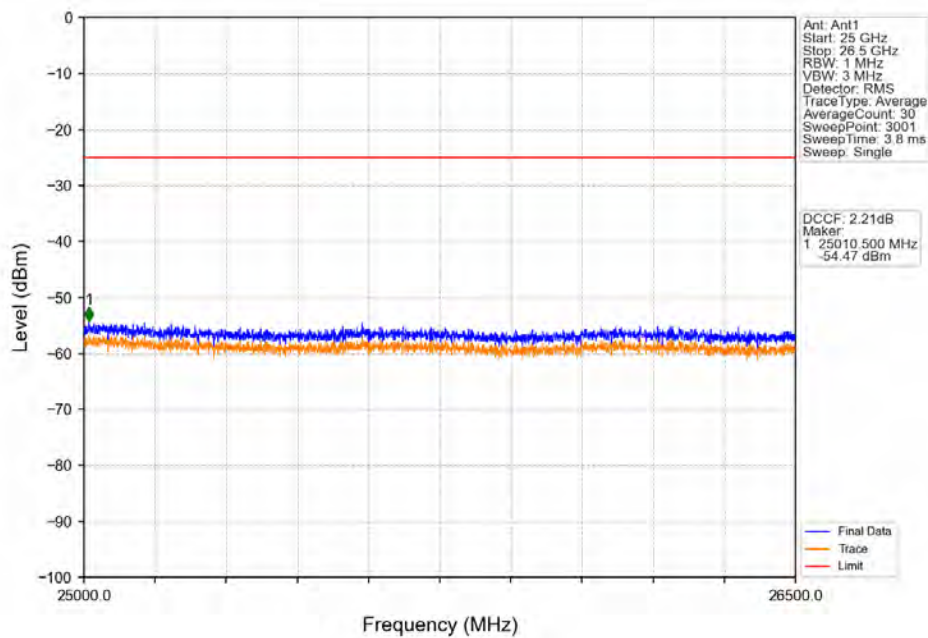
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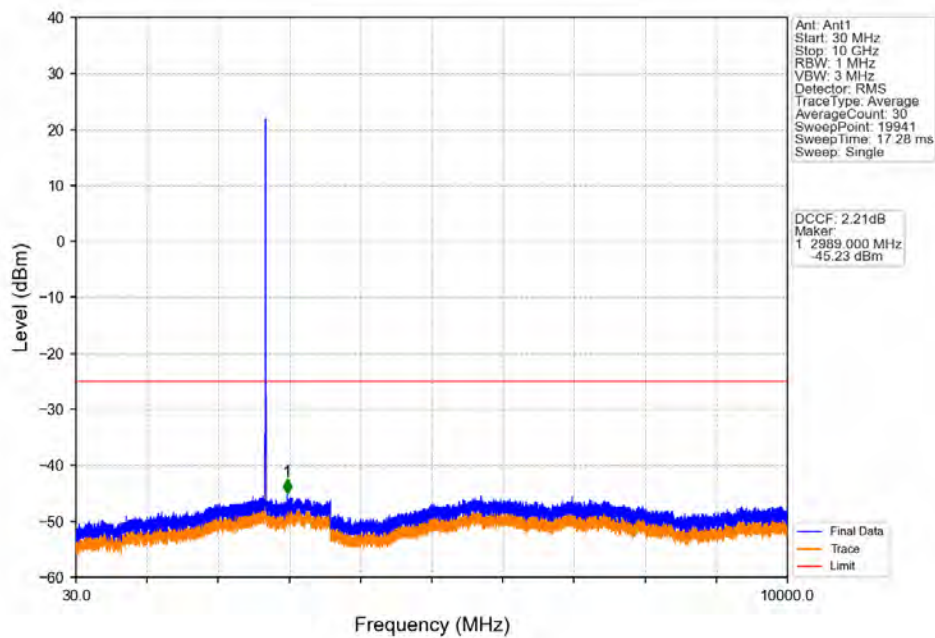
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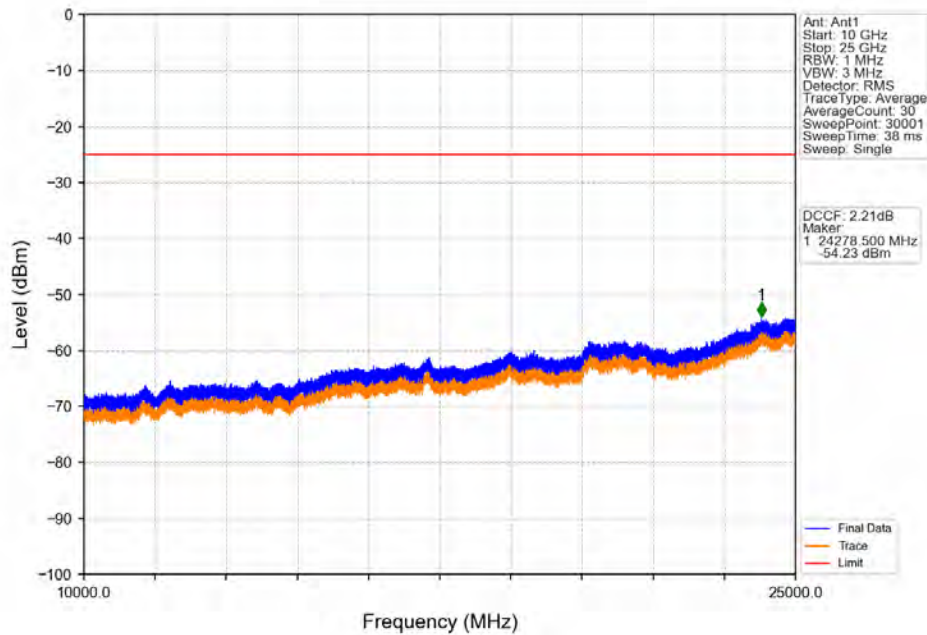
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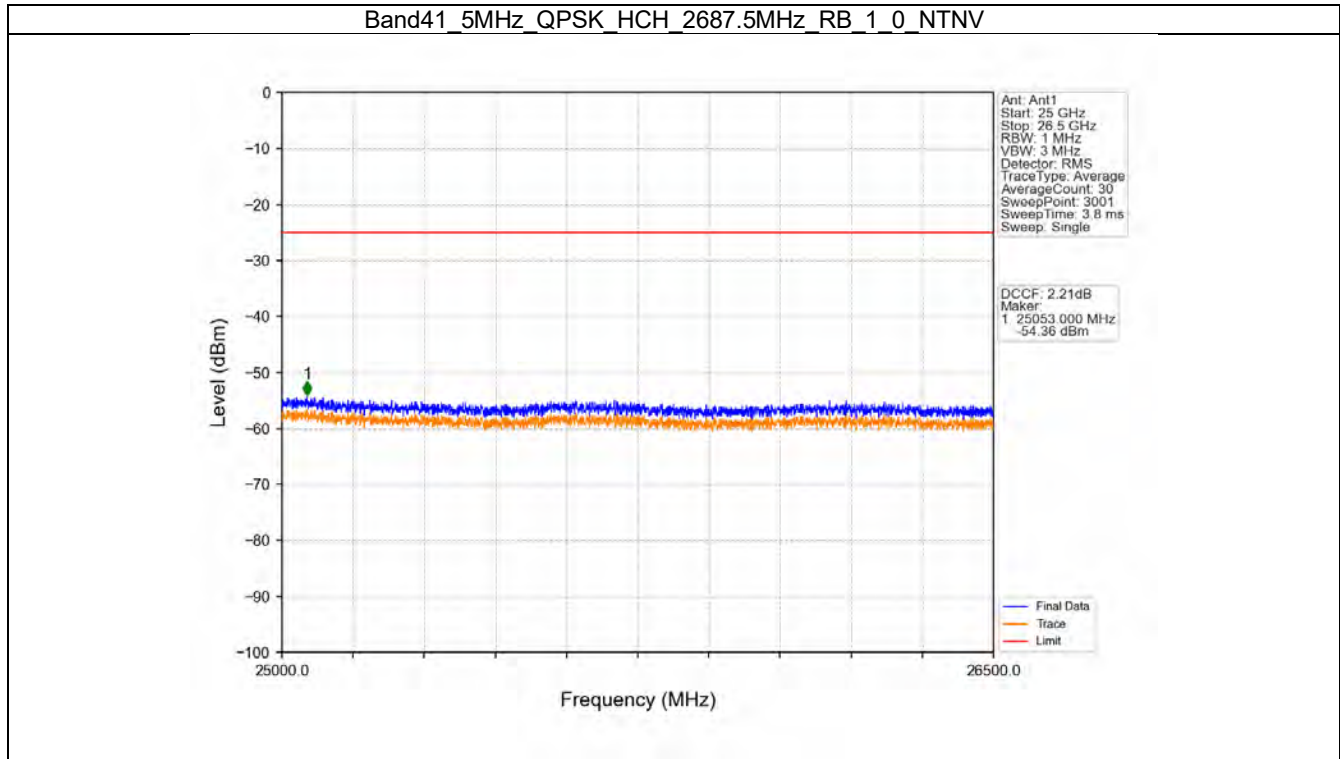


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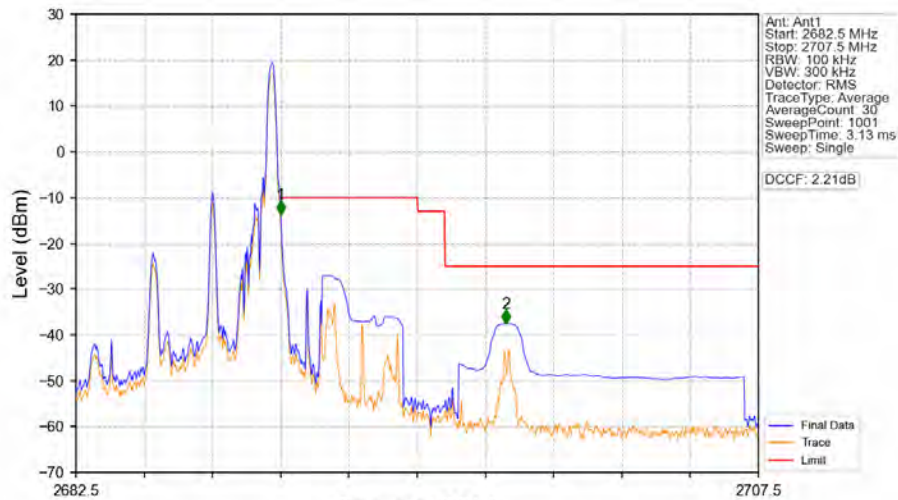
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Band41_5MHz_QPSK_HCH_2687.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2682.5	2690	0.1	/	/	/	/	/	/
2690	2691	0.1	/	1	2690.000	-13.70	-10	Pass
2691	2707.5	1	CHP	2	2698.250	-37.59	-25	Pass



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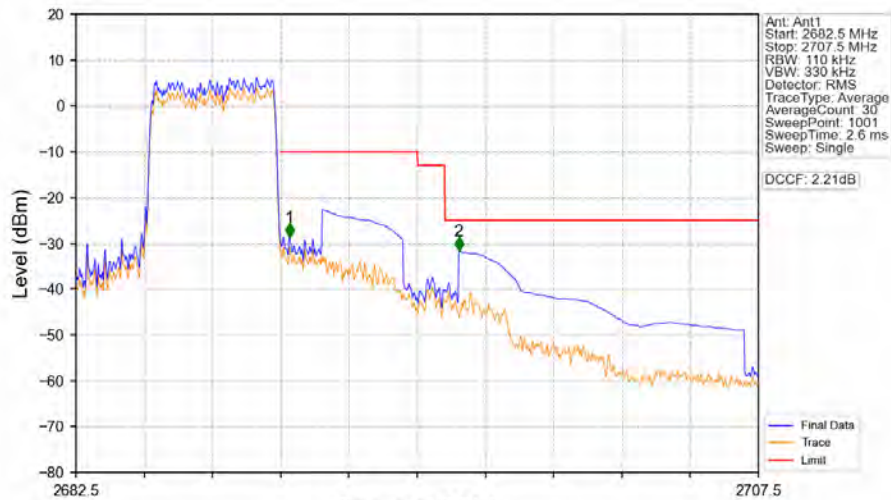
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Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2682.5	2690	0.11	/	/	/	/	/	/
2690	2691	0.11	/	1	2690.325	-28.63	-10	Pass
2691	2707.5	1	CHP	2	2696.525	-31.71	-25	Pass



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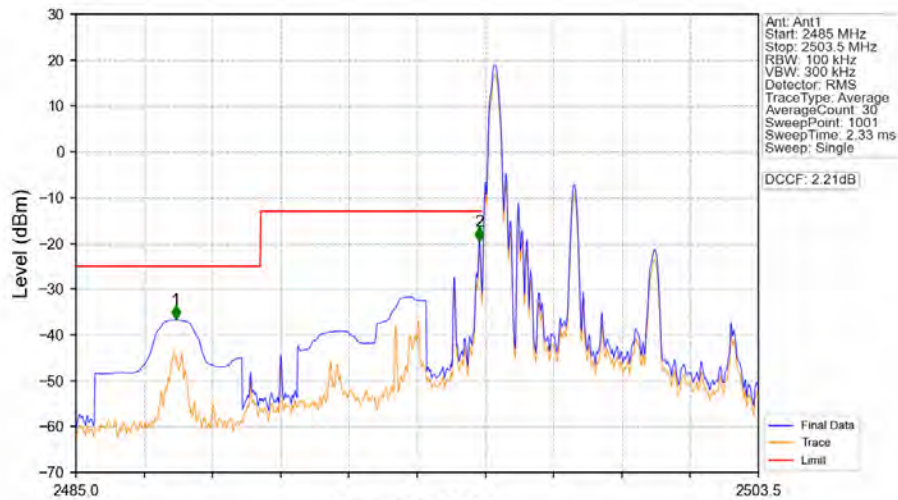
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Band41_5MHz_16QAM_LCH_2498.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2487.701	-36.74	-25	Pass
2495	2496	0.1	/	2	2495.934	-19.59	-13	Pass
2496	2503.5	0.1	/	/	/	/	/	/



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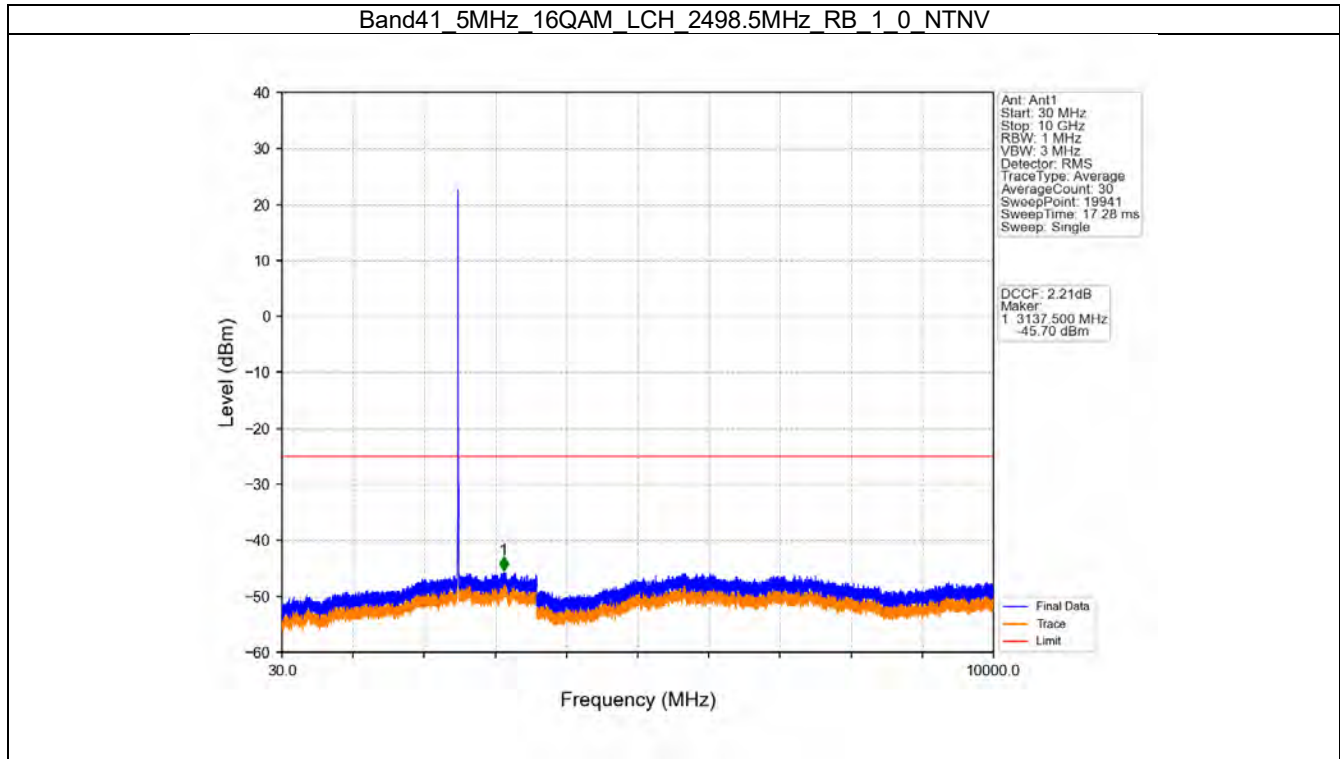


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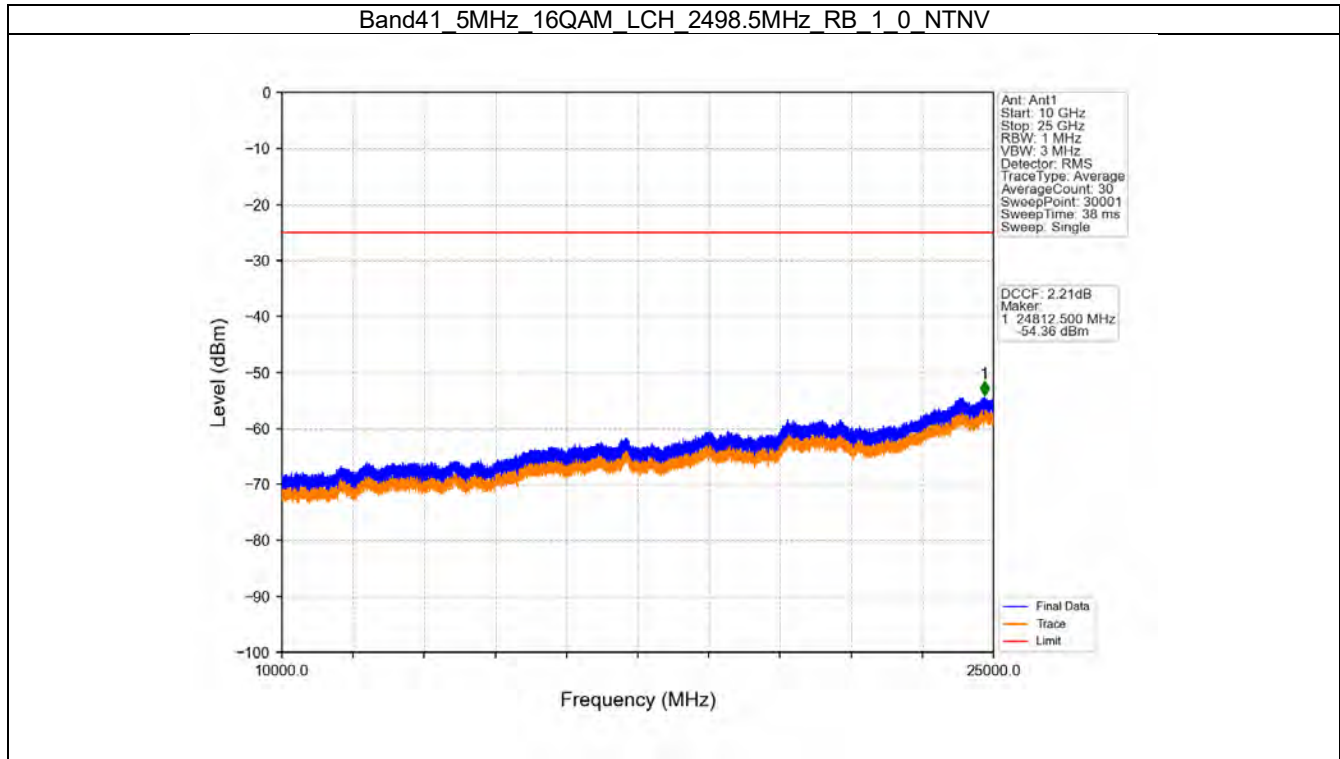


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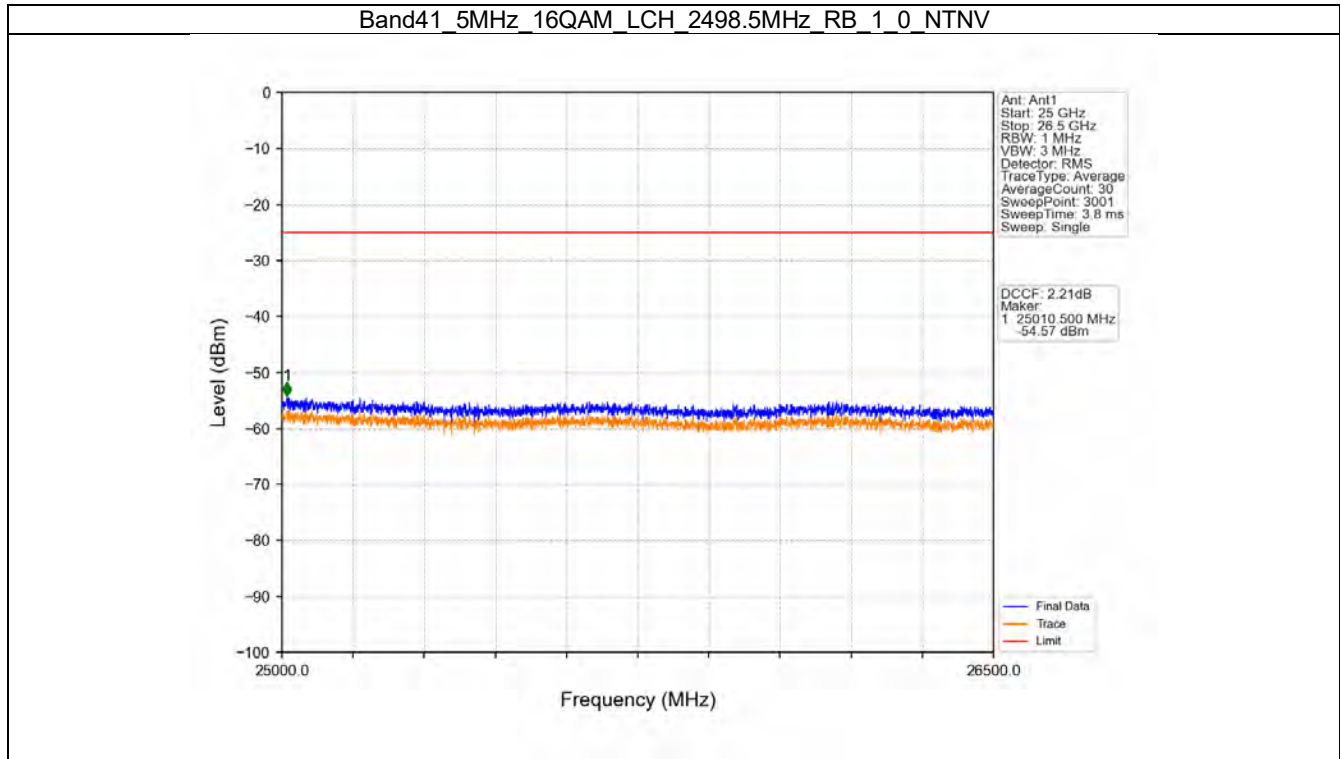


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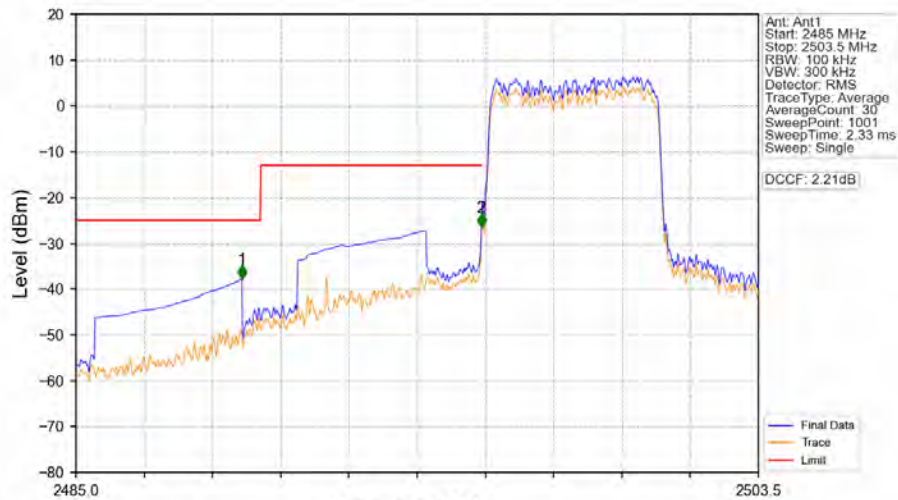
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Band41_5MHz_16QAM_LCH_2498.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2489.495	-37.81	-25	Pass
2495	2496	0.1	/	2	2495.989	-26.56	-13	Pass
2496	2503.5	0.107	/	/	/	/	/	/



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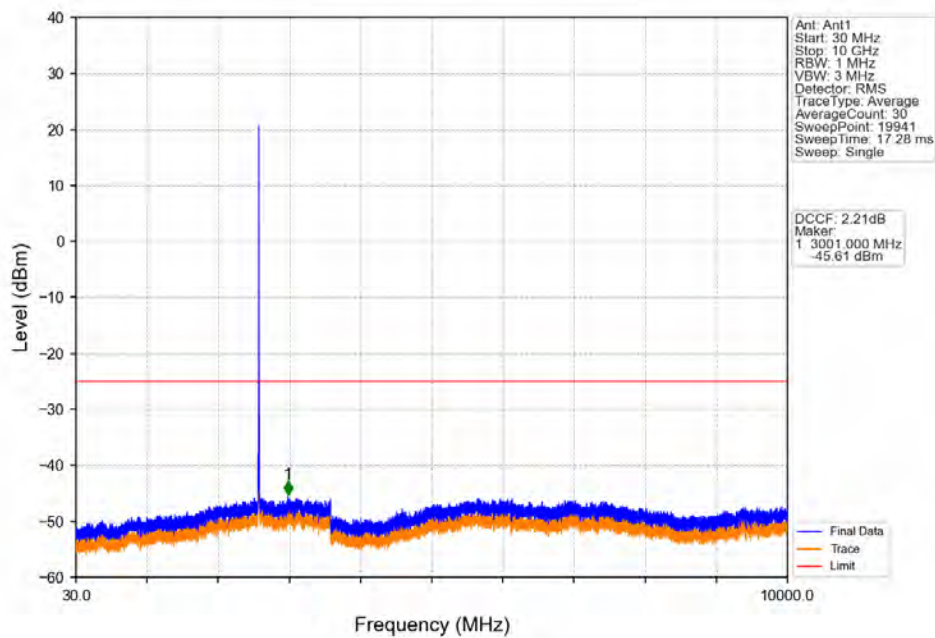
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Band41_5MHz_16QAM_MCH_2593MHz_RB_1_0_NTNV



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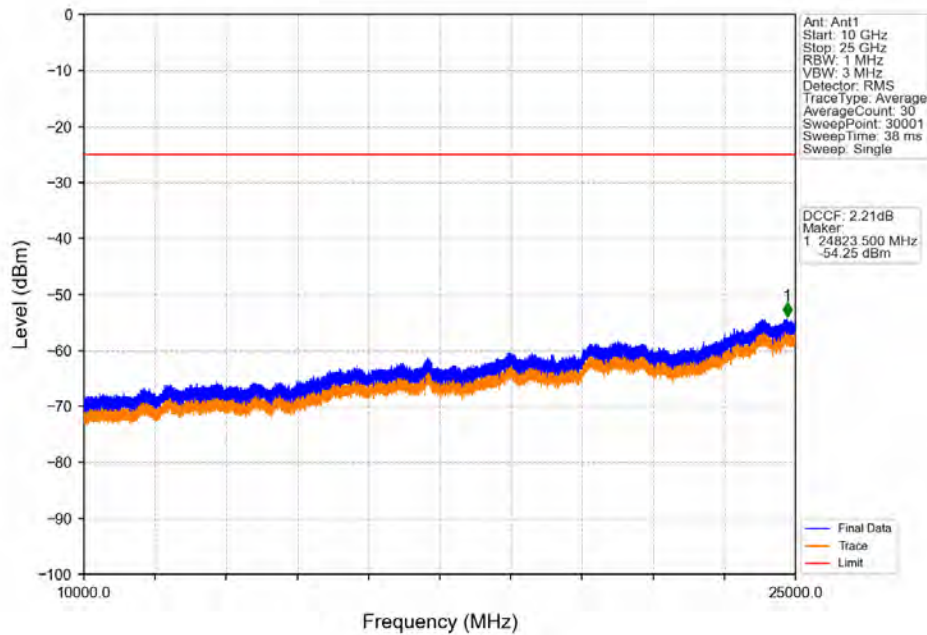
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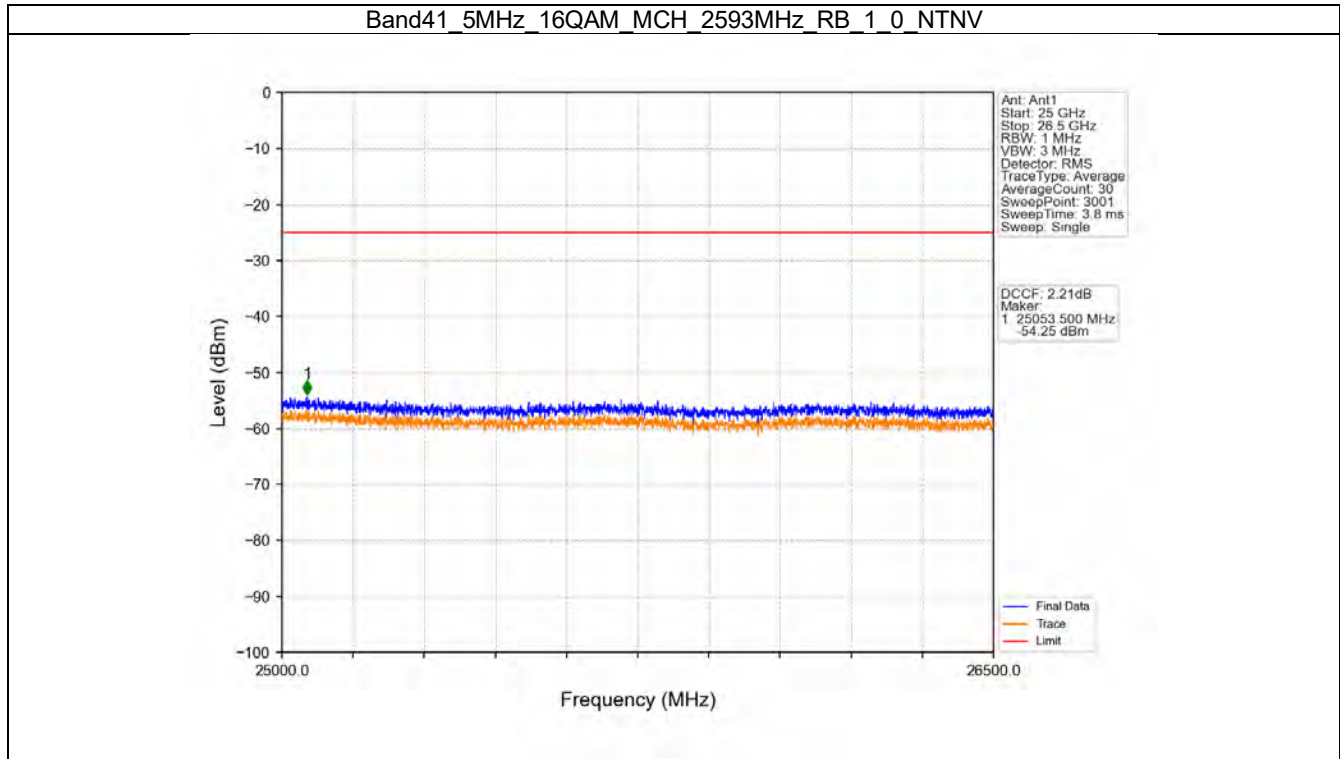


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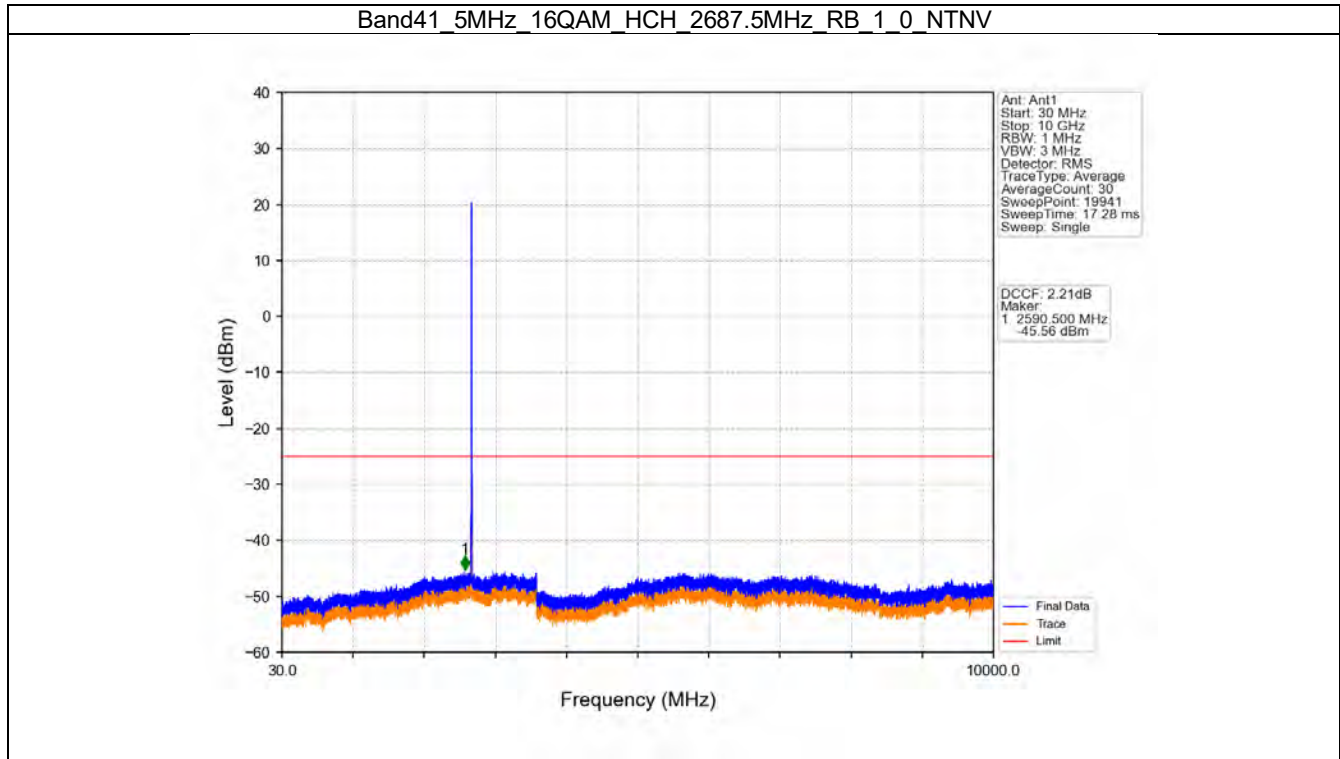


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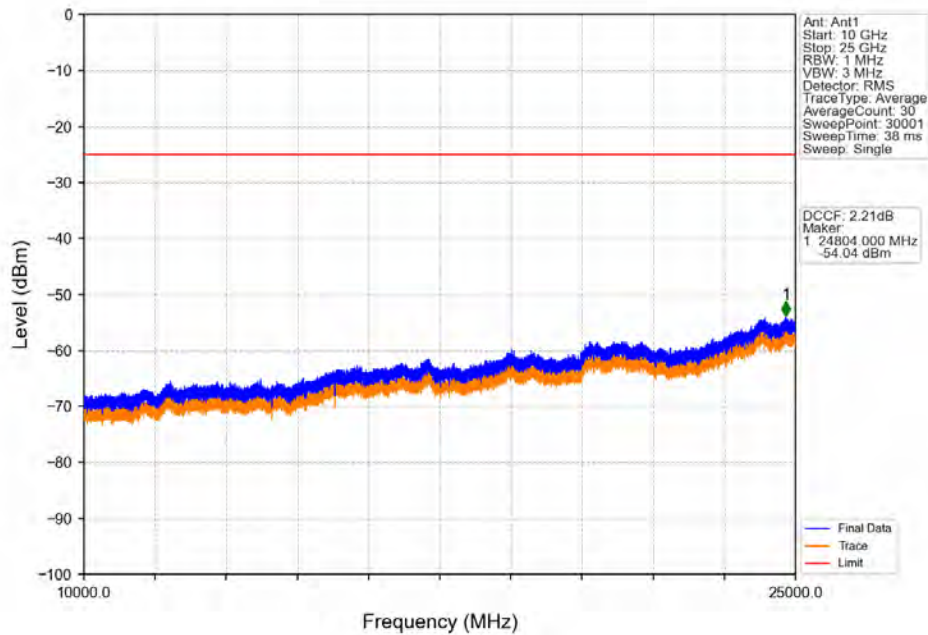
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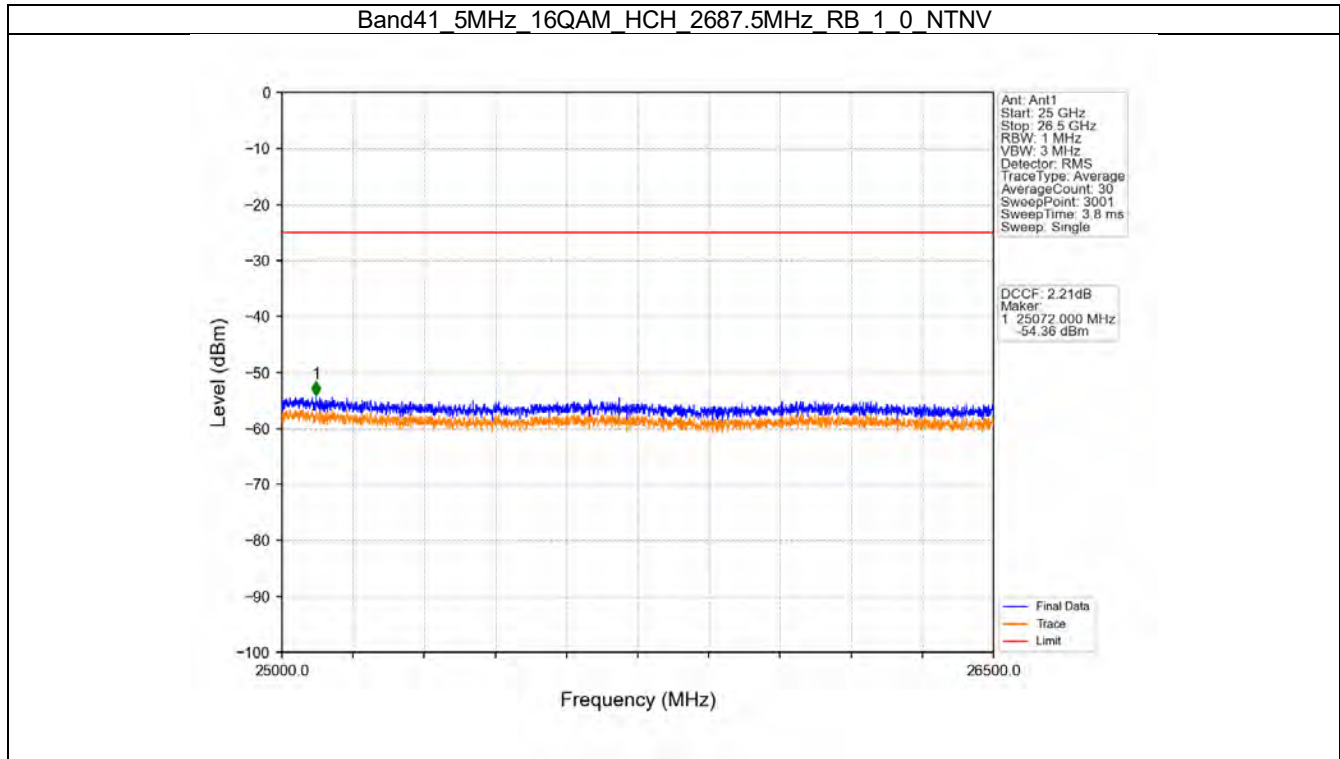


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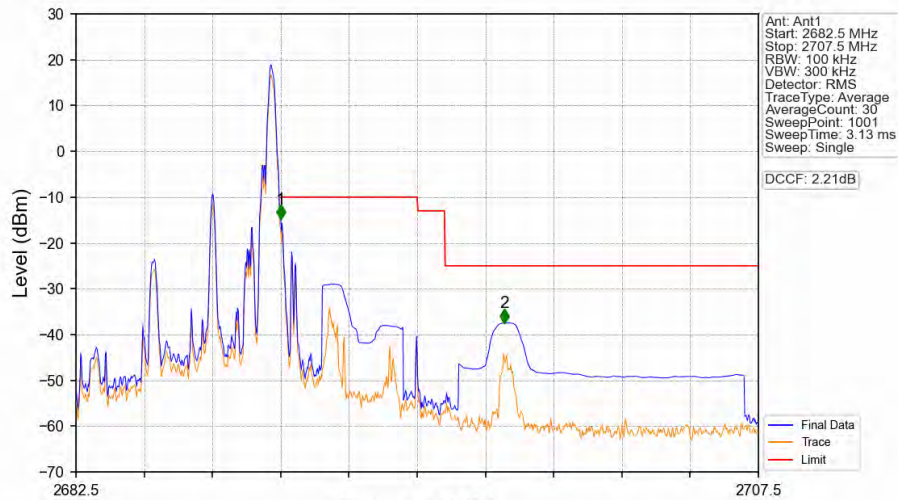
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Band41_5MHz_16QAM_HCH_2687.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2682.5	2690	0.1	/	/	/	/	/	/
2690	2691	0.1	/	1	2690.000	-14.87	-10	Pass
2691	2707.5	1	CHP	2	2698.200	-37.48	-25	Pass



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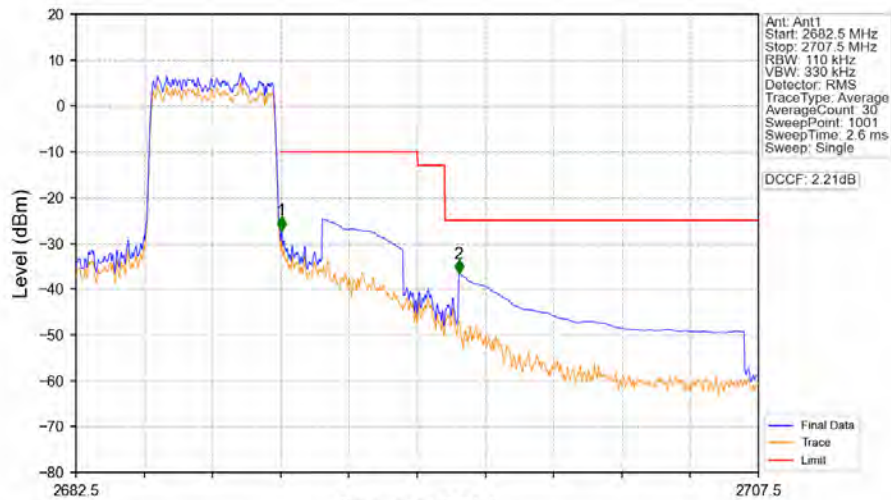
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Band41_5MHz_16QAM_HCH_2687.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2682.5	2690	0.11	/	/	/	/	/	/
2690	2691	0.11	/	1	2690.025	-27.19	-10	Pass
2691	2707.5	1	CHP	2	2696.525	-36.60	-25	Pass



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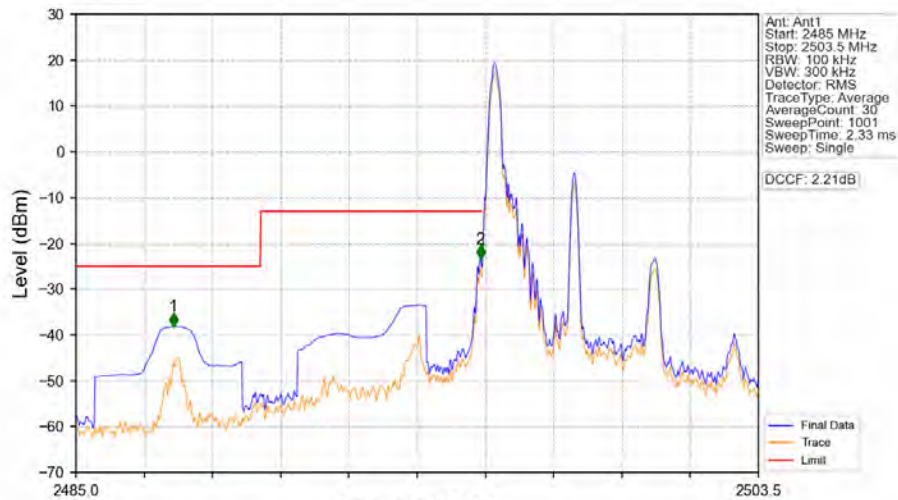
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Band41_5MHz_64QAM_LCH_2498.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2487.646	-38.17	-25	Pass
2495	2496	0.1	/	2	2495.970	-23.39	-13	Pass
2496	2503.5	0.1	/	/	/	/	/	/



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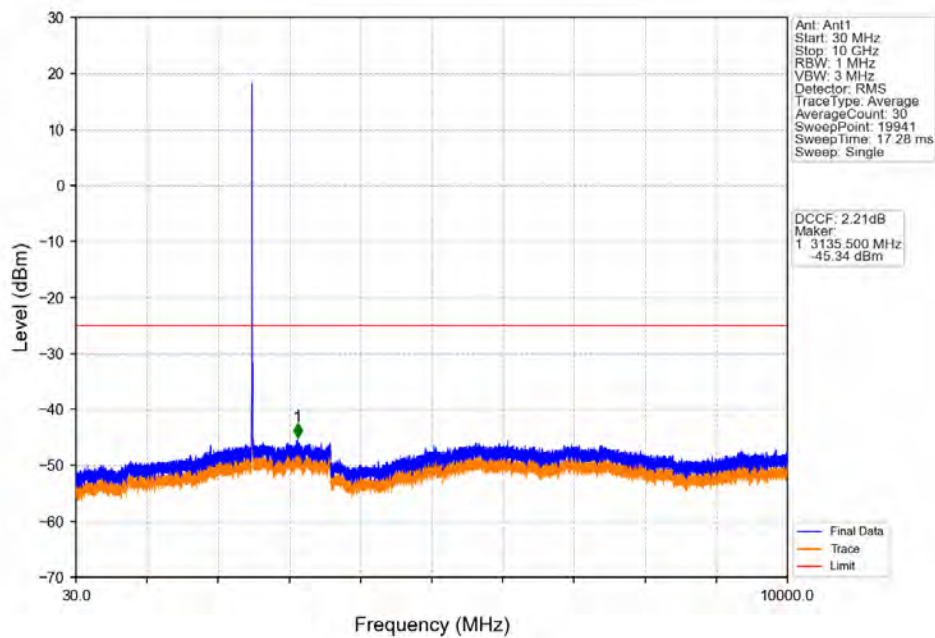
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Band41_5MHz_64QAM_LCH_2498.5MHz_RB_1_0_NTNV



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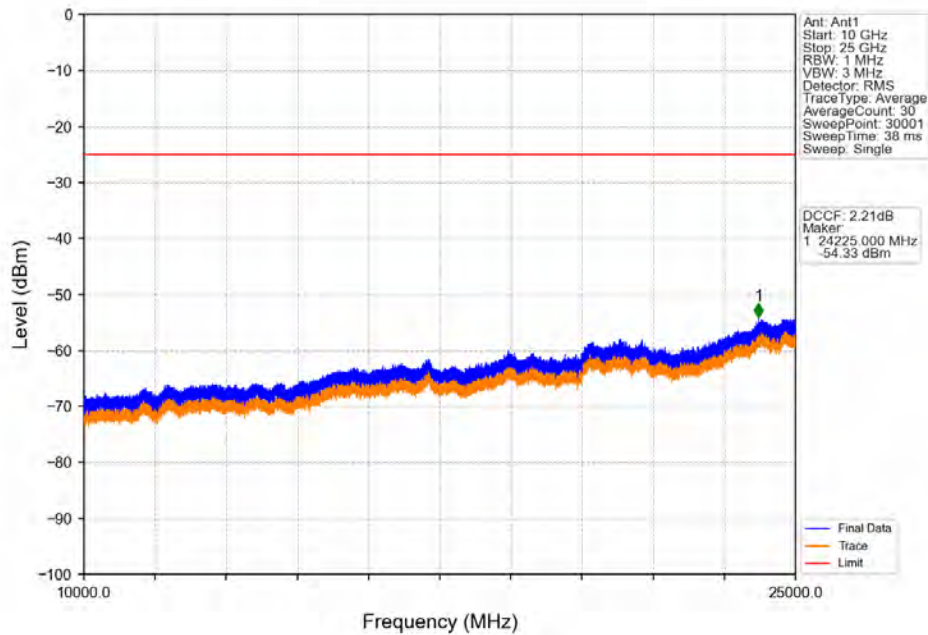
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Band41_5MHz_64QAM_LCH_2498.5MHz_RB_1_0_NTNV



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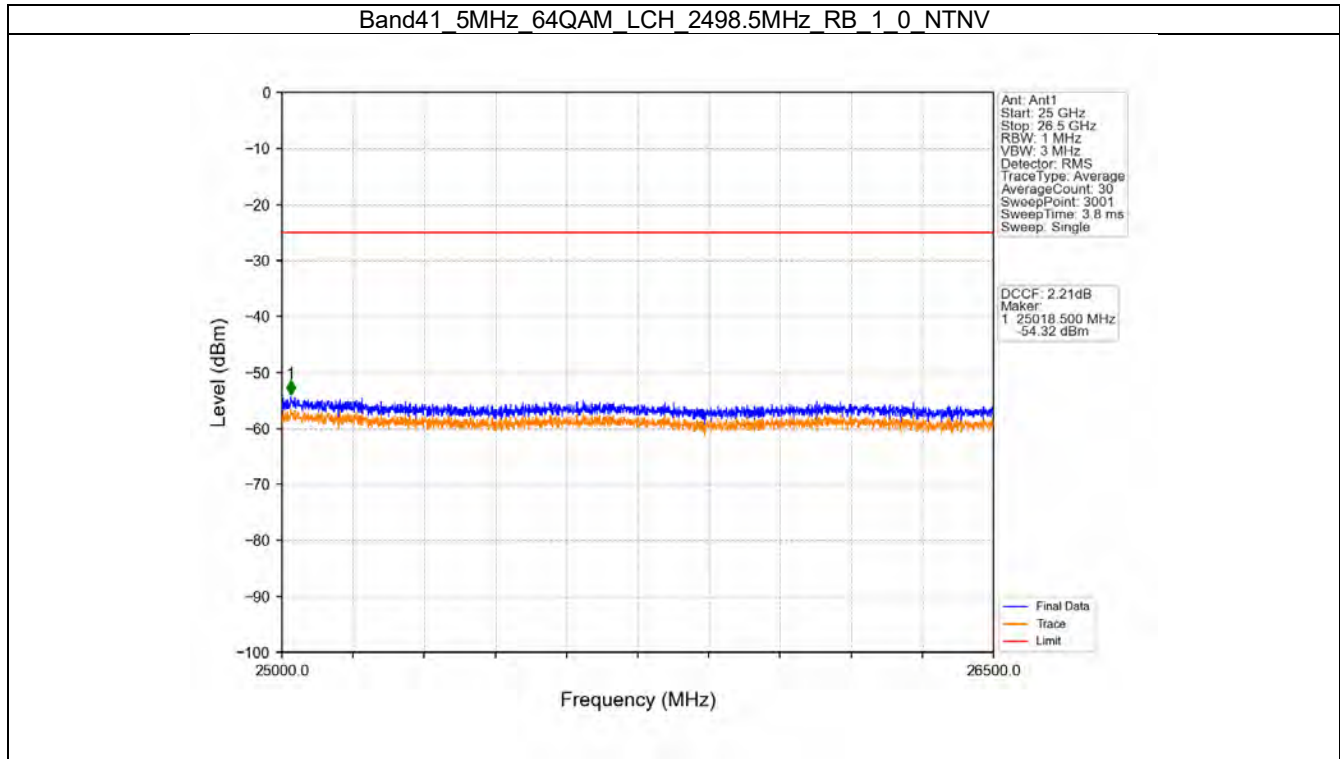


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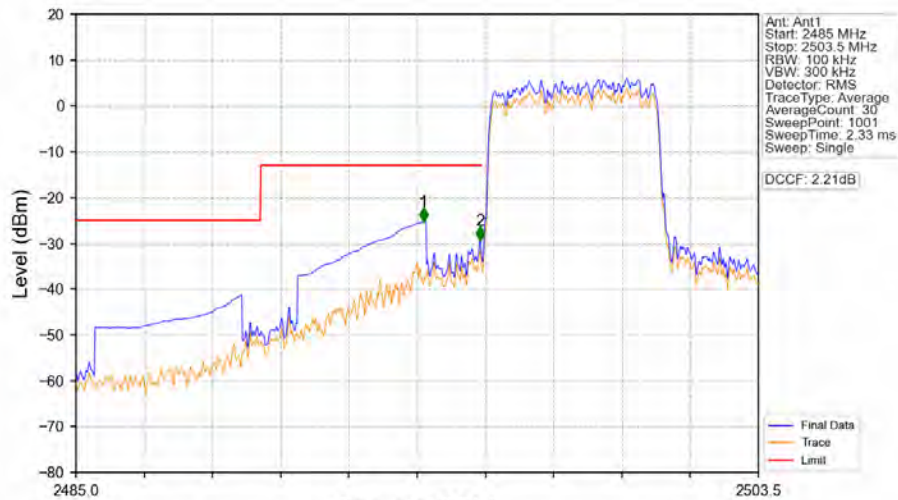
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Band41_5MHz_64QAM_LCH_2498.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2494.416	-25.35	-13	Pass
2495	2496	0.1	/	2	2495.952	-29.43	-13	Pass
2496	2503.5	0.101	/	/	/	/	/	/



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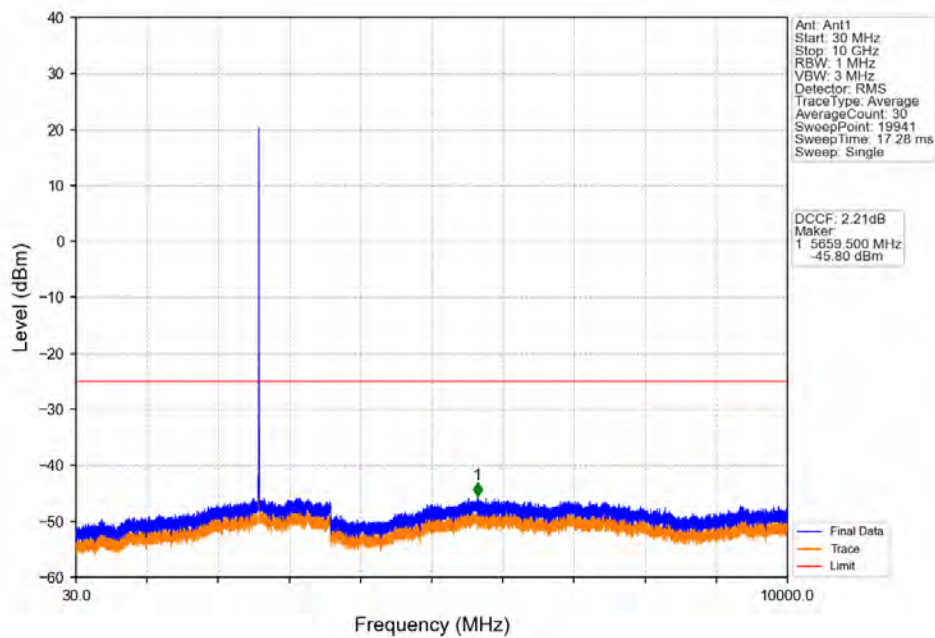
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Band41_5MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



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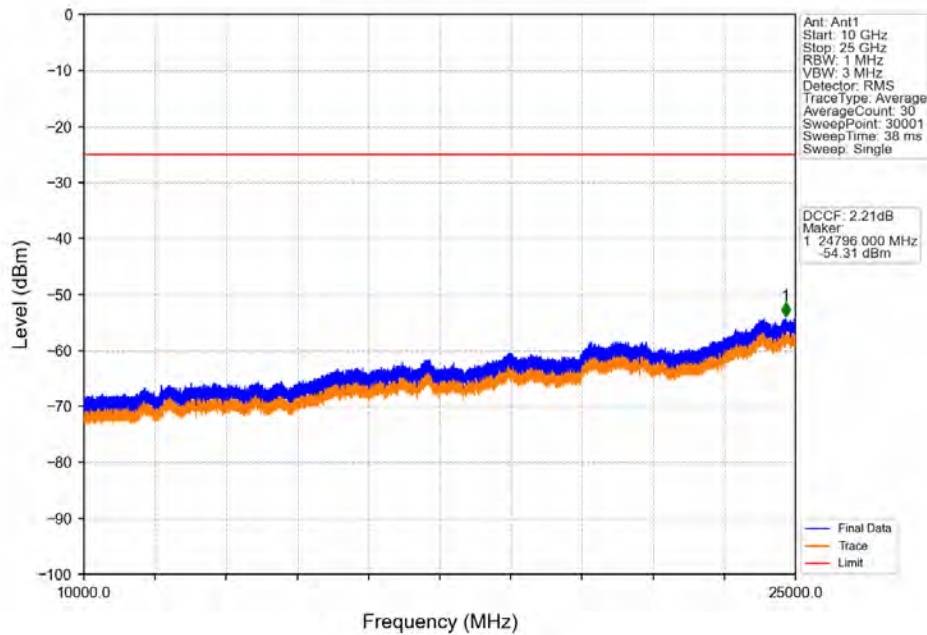
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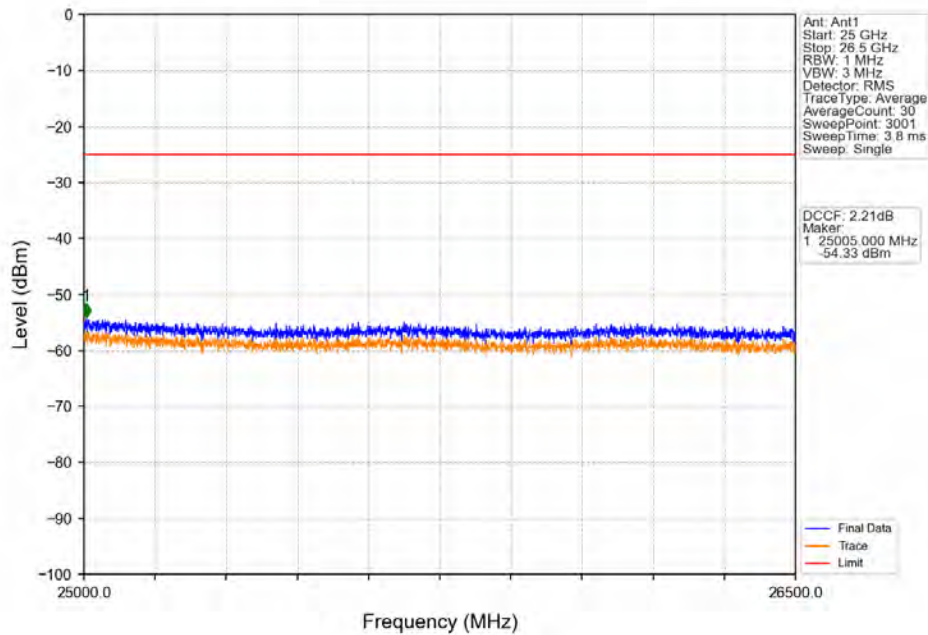
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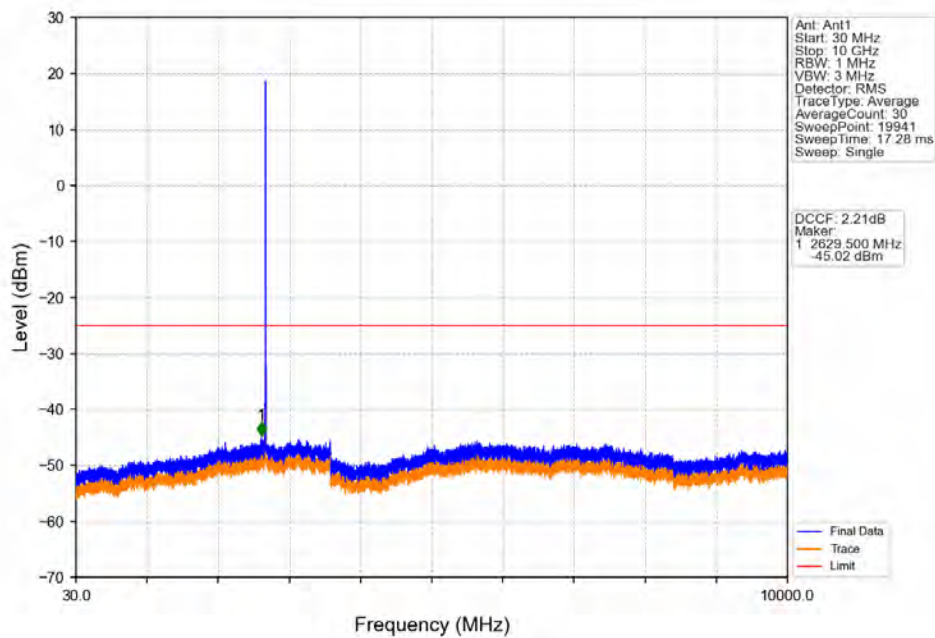
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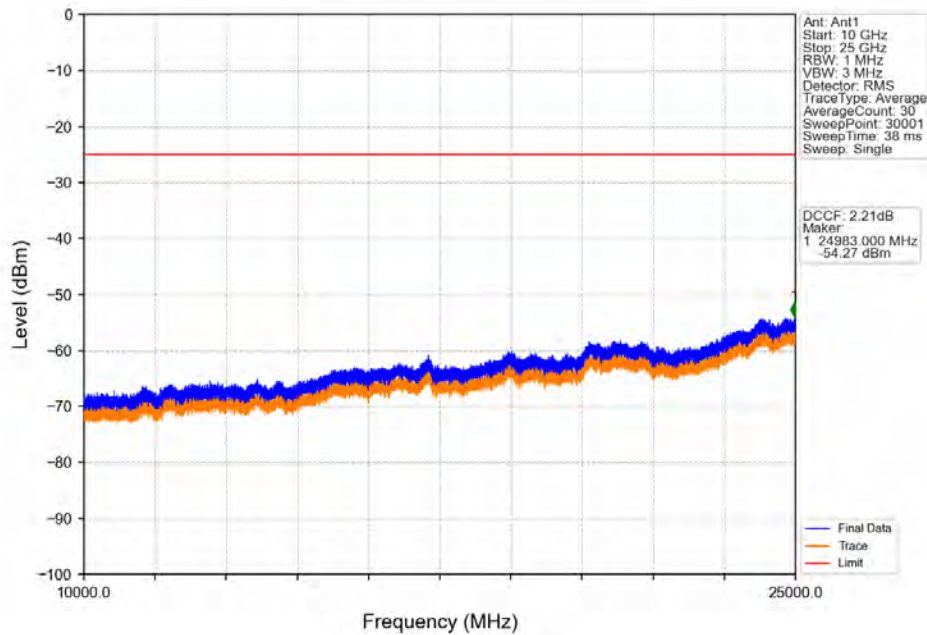
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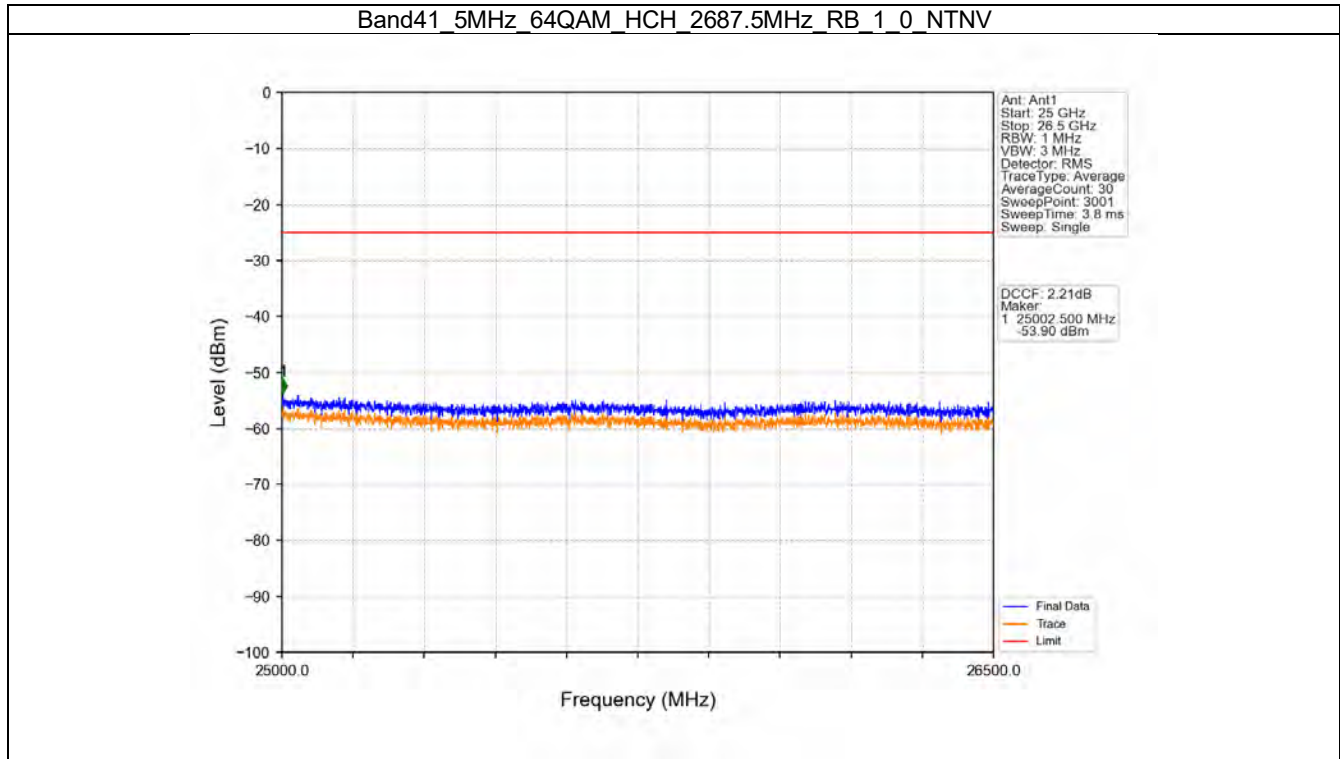


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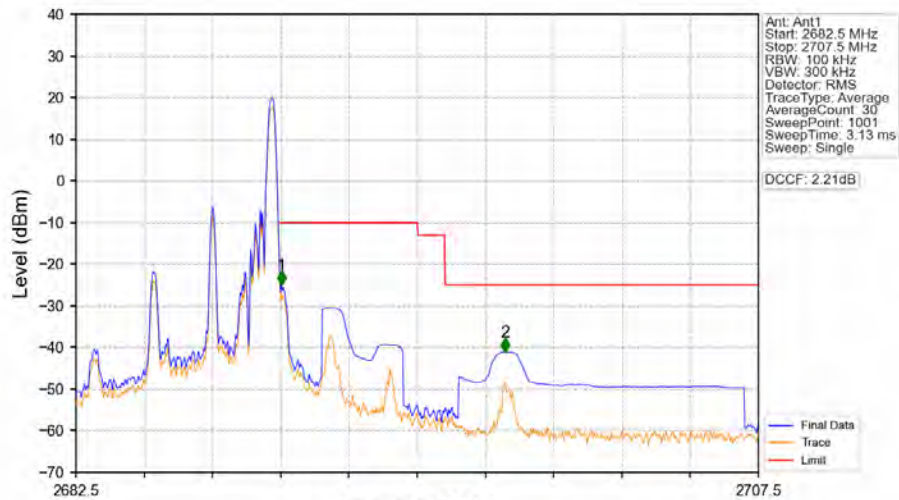
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Band41_5MHz_64QAM_HCH_2687.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2682.5	2690	0.1	/	/	/	/	/	/
2690	2691	0.1	/	1	2690.025	-24.96	-10	Pass
2691	2707.5	1	CHP	2	2698.225	-41.10	-25	Pass



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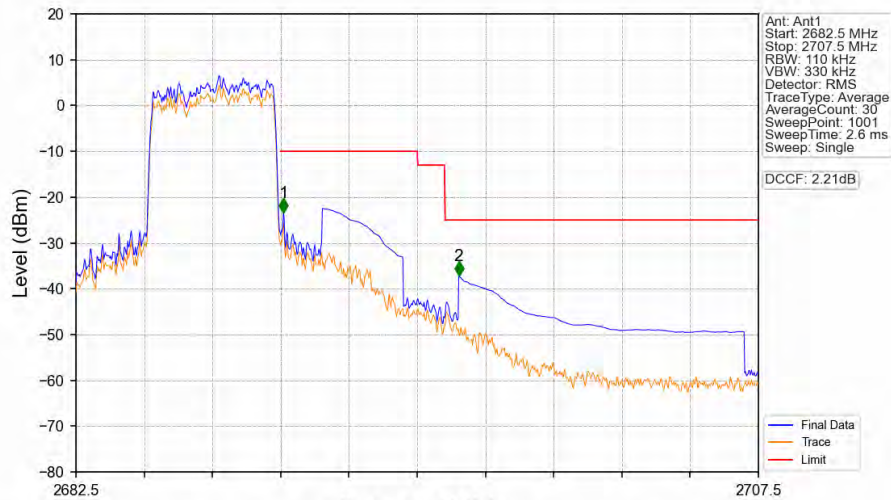
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Band41_5MHz_64QAM_HCH_2687.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2682.5	2690	0.11	/	/	/	/	/	/
2690	2691	0.11	/	1	2690.100	-23.39	-10	Pass
2691	2707.5	1	CHP	2	2696.525	-37.22	-25	Pass



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5.2 B41_10MHz

5.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	2501	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	2593	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
			0	Refer To Test Graph	Pass
16QAM	2501	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	2593	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
			0	Refer To Test Graph	Pass
64QAM	2501	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	2593	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
			0	Refer To Test Graph	Pass



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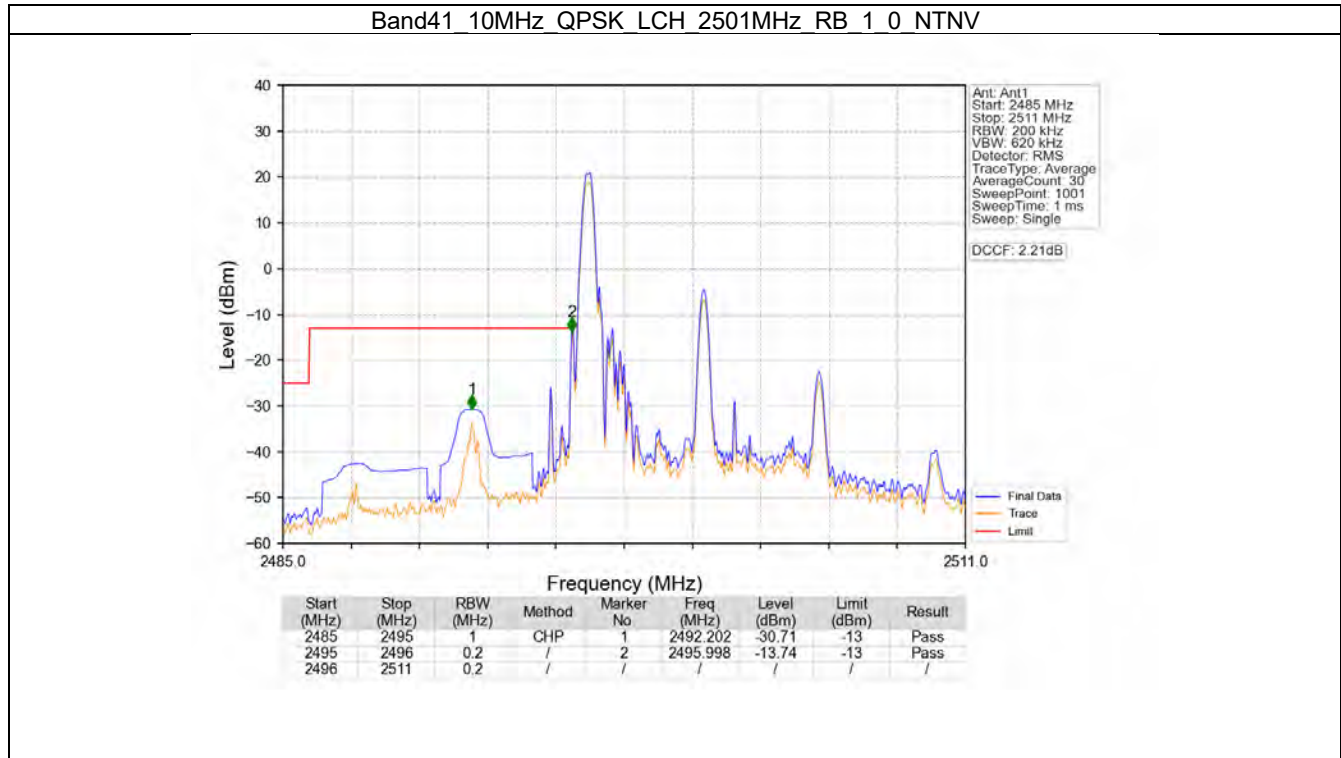
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5.2.2 Test Graph



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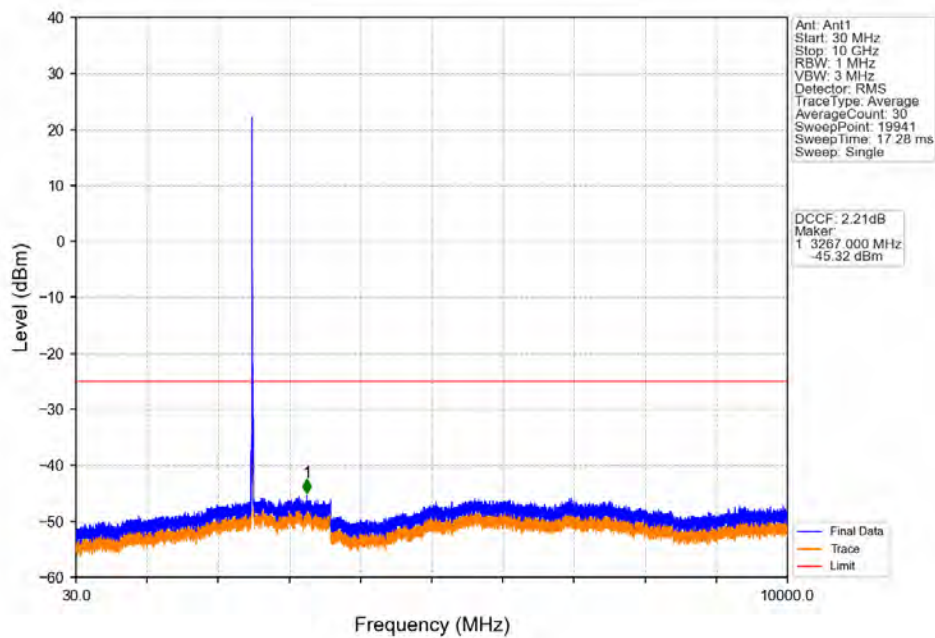
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Band41_10MHz_QPSK_LCH_2501MHz_RB_1_0_NTNV



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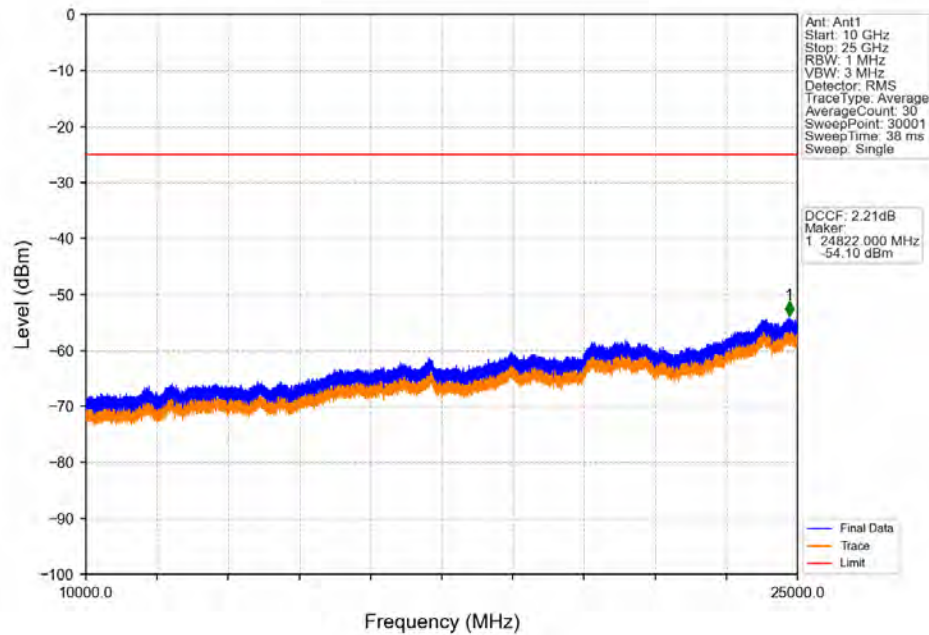
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Band41_10MHz_QPSK_LCH_2501MHz_RB_1_0_NTNV



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