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Appendix B.11

LTE Band 12



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1. Effective (Isotropic) Radiated Power Output Data

Ant31

1.1 B12_1.4MHz_ERP

1.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	699.7	1	0	23.29	-8.55	12.59	<=34.77	Pass		
			2	23.31	-8.55	12.61	<=34.77	Pass		
			5	23.24	-8.55	12.54	<=34.77	Pass		
		3	0	23.32	-8.55	12.62	<=34.77	Pass		
			2	23.32	-8.55	12.62	<=34.77	Pass		
			3	23.26	-8.55	12.56	<=34.77	Pass		
		6	0	22.27	-8.55	11.57	<=34.77	Pass		
		707.5	1	0	23.29	-8.55	12.59	<=34.77	Pass	
				2	23.37	-8.55	12.67	<=34.77	Pass	
	5			23.28	-8.55	12.58	<=34.77	Pass		
	3		0	23.29	-8.55	12.59	<=34.77	Pass		
			2	23.27	-8.55	12.57	<=34.77	Pass		
			3	23.28	-8.55	12.58	<=34.77	Pass		
	6	0	22.26	-8.55	11.56	<=34.77	Pass			
	715.3	1	0	23.19	-8.55	12.49	<=34.77	Pass		
			2	23.20	-8.55	12.50	<=34.77	Pass		
			5	23.12	-8.55	12.42	<=34.77	Pass		
		3	0	23.20	-8.55	12.50	<=34.77	Pass		
			2	23.18	-8.55	12.48	<=34.77	Pass		
			3	23.17	-8.55	12.47	<=34.77	Pass		
		6	0	22.19	-8.55	11.49	<=34.77	Pass		
		16QAM	699.7	1	0	22.32	-8.55	11.62	<=34.77	Pass
					2	22.43	-8.55	11.73	<=34.77	Pass
	5				22.29	-8.55	11.59	<=34.77	Pass	
3	0			22.33	-8.55	11.63	<=34.77	Pass		
	2			22.32	-8.55	11.62	<=34.77	Pass		
	3			22.30	-8.55	11.60	<=34.77	Pass		
6	0		21.26	-8.55	10.56	<=34.77	Pass			
707.5	1		0	22.39	-8.55	11.69	<=34.77	Pass		
			2	22.45	-8.55	11.75	<=34.77	Pass		
			5	22.37	-8.55	11.67	<=34.77	Pass		
	3		0	22.38	-8.55	11.68	<=34.77	Pass		
			2	22.43	-8.55	11.73	<=34.77	Pass		
			3	22.47	-8.55	11.77	<=34.77	Pass		
	6		0	21.33	-8.55	10.63	<=34.77	Pass		



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64QAM	715.3	1	0	22.28	-8.55	11.58	<=34.77	Pass		
			2	22.27	-8.55	11.57	<=34.77	Pass		
			5	22.24	-8.55	11.54	<=34.77	Pass		
		3	0	22.34	-8.55	11.64	<=34.77	Pass		
			2	22.29	-8.55	11.59	<=34.77	Pass		
			3	22.31	-8.55	11.61	<=34.77	Pass		
		6	0	21.25	-8.55	10.55	<=34.77	Pass		
		64QAM	699.7	1	0	21.44	-8.55	10.74	<=34.77	Pass
					2	21.54	-8.55	10.84	<=34.77	Pass
5	21.49				-8.55	10.79	<=34.77	Pass		
3	0			21.34	-8.55	10.64	<=34.77	Pass		
	2			21.34	-8.55	10.64	<=34.77	Pass		
	3			21.33	-8.55	10.63	<=34.77	Pass		
6	0			20.33	-8.55	9.63	<=34.77	Pass		
707.5	1			0	21.41	-8.55	10.71	<=34.77	Pass	
				2	21.51	-8.55	10.81	<=34.77	Pass	
			5	21.51	-8.55	10.81	<=34.77	Pass		
	3		0	21.40	-8.55	10.70	<=34.77	Pass		
			2	21.38	-8.55	10.68	<=34.77	Pass		
			3	21.40	-8.55	10.70	<=34.77	Pass		
	6		0	20.24	-8.55	9.54	<=34.77	Pass		
	715.3		1	0	21.38	-8.55	10.68	<=34.77	Pass	
				2	21.39	-8.55	10.69	<=34.77	Pass	
5				21.34	-8.55	10.64	<=34.77	Pass		
3			0	21.29	-8.55	10.59	<=34.77	Pass		
		2	21.30	-8.55	10.60	<=34.77	Pass			
		3	21.40	-8.55	10.70	<=34.77	Pass			
6	0	20.22	-8.55	9.52	<=34.77	Pass				

1.2 B12_3MHz_ERP

1.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTNv								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	23.27	-8.55	12.57	<=34.77	Pass
			7	23.33	-8.55	12.63	<=34.77	Pass
			14	23.23	-8.55	12.53	<=34.77	Pass
		8	0	22.34	-8.55	11.64	<=34.77	Pass
			4	22.37	-8.55	11.67	<=34.77	Pass
			7	22.34	-8.55	11.64	<=34.77	Pass
	15	0	22.37	-8.55	11.67	<=34.77	Pass	
	707.5	1	0	23.16	-8.55	12.46	<=34.77	Pass
			7	23.29	-8.55	12.59	<=34.77	Pass
			14	23.22	-8.55	12.52	<=34.77	Pass



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16QAM	714.5	8	0	22.29	-8.55	11.59	<=34.77	Pass	
			4	22.31	-8.55	11.61	<=34.77	Pass	
			7	22.36	-8.55	11.66	<=34.77	Pass	
	714.5	1	0	23.15	-8.55	12.45	<=34.77	Pass	
			7	23.25	-8.55	12.55	<=34.77	Pass	
			14	23.15	-8.55	12.45	<=34.77	Pass	
	714.5	8	0	22.26	-8.55	11.56	<=34.77	Pass	
			4	22.28	-8.55	11.58	<=34.77	Pass	
			7	22.24	-8.55	11.54	<=34.77	Pass	
	714.5	15	0	22.26	-8.55	11.56	<=34.77	Pass	
			1	22.52	-8.55	11.82	<=34.77	Pass	
			7	22.51	-8.55	11.81	<=34.77	Pass	
	16QAM	700.5	1	14	22.42	-8.55	11.72	<=34.77	Pass
				0	21.35	-8.55	10.65	<=34.77	Pass
				4	21.41	-8.55	10.71	<=34.77	Pass
700.5		8	7	21.33	-8.55	10.63	<=34.77	Pass	
			15	21.37	-8.55	10.67	<=34.77	Pass	
			0	22.34	-8.55	11.64	<=34.77	Pass	
707.5		1	7	22.42	-8.55	11.72	<=34.77	Pass	
			14	22.31	-8.55	11.61	<=34.77	Pass	
			0	21.25	-8.55	10.55	<=34.77	Pass	
707.5		8	4	21.38	-8.55	10.68	<=34.77	Pass	
			7	21.40	-8.55	10.70	<=34.77	Pass	
			15	21.30	-8.55	10.60	<=34.77	Pass	
714.5		1	0	22.26	-8.55	11.56	<=34.77	Pass	
			7	22.44	-8.55	11.74	<=34.77	Pass	
			14	22.27	-8.55	11.57	<=34.77	Pass	
714.5	8	0	21.29	-8.55	10.59	<=34.77	Pass		
		4	21.33	-8.55	10.63	<=34.77	Pass		
		7	21.27	-8.55	10.57	<=34.77	Pass		
714.5	15	0	21.30	-8.55	10.60	<=34.77	Pass		
		1	21.53	-8.55	10.83	<=34.77	Pass		
		7	21.54	-8.55	10.84	<=34.77	Pass		
64QAM	700.5	1	14	21.38	-8.55	10.68	<=34.77	Pass	
			0	20.30	-8.55	9.60	<=34.77	Pass	
			4	20.32	-8.55	9.62	<=34.77	Pass	
	700.5	8	7	20.17	-8.55	9.47	<=34.77	Pass	
			15	20.36	-8.55	9.66	<=34.77	Pass	
			0	21.47	-8.55	10.77	<=34.77	Pass	
	707.5	1	7	21.57	-8.55	10.87	<=34.77	Pass	
			14	21.46	-8.55	10.76	<=34.77	Pass	
			0	20.32	-8.55	9.62	<=34.77	Pass	
	707.5	8	4	20.23	-8.55	9.53	<=34.77	Pass	
			7	20.40	-8.55	9.70	<=34.77	Pass	
			15	20.30	-8.55	9.60	<=34.77	Pass	
	714.5	1	0	21.43	-8.55	10.73	<=34.77	Pass	
			7	21.45	-8.55	10.75	<=34.77	Pass	



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		14	21.35	-8.55	10.65	<=34.77	Pass
	8	0	20.32	-8.55	9.62	<=34.77	Pass
		4	20.33	-8.55	9.63	<=34.77	Pass
		7	20.31	-8.55	9.61	<=34.77	Pass
	15	0	20.30	-8.55	9.60	<=34.77	Pass

1.3 B12_5MHz_ERP

1.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	701.5	1	0	23.38	-8.55	12.68	<=34.77	Pass		
			13	23.40	-8.55	12.70	<=34.77	Pass		
			24	23.27	-8.55	12.57	<=34.77	Pass		
		12	0	22.39	-8.55	11.69	<=34.77	Pass		
			6	22.38	-8.55	11.68	<=34.77	Pass		
			13	22.35	-8.55	11.65	<=34.77	Pass		
		25	0	22.36	-8.55	11.66	<=34.77	Pass		
		707.5	1	0	23.39	-8.55	12.69	<=34.77	Pass	
				13	23.45	-8.55	12.75	<=34.77	Pass	
	24			23.30	-8.55	12.60	<=34.77	Pass		
	12		0	22.36	-8.55	11.66	<=34.77	Pass		
			6	22.38	-8.55	11.68	<=34.77	Pass		
			13	22.40	-8.55	11.70	<=34.77	Pass		
	25	0	22.34	-8.55	11.64	<=34.77	Pass			
	713.5	1	0	23.32	-8.55	12.62	<=34.77	Pass		
			13	23.30	-8.55	12.60	<=34.77	Pass		
			24	23.23	-8.55	12.53	<=34.77	Pass		
		12	0	22.26	-8.55	11.56	<=34.77	Pass		
			6	22.35	-8.55	11.65	<=34.77	Pass		
			13	22.32	-8.55	11.62	<=34.77	Pass		
		25	0	22.25	-8.55	11.55	<=34.77	Pass		
		16QAM	701.5	1	0	22.47	-8.55	11.77	<=34.77	Pass
					13	22.52	-8.55	11.82	<=34.77	Pass
	24				22.38	-8.55	11.68	<=34.77	Pass	
12	0			21.42	-8.55	10.72	<=34.77	Pass		
	6			21.45	-8.55	10.75	<=34.77	Pass		
	13			21.37	-8.55	10.67	<=34.77	Pass		
25	0		21.38	-8.55	10.68	<=34.77	Pass			
707.5	1		0	22.42	-8.55	11.72	<=34.77	Pass		
			13	22.48	-8.55	11.78	<=34.77	Pass		
			24	22.32	-8.55	11.62	<=34.77	Pass		
	12		0	21.46	-8.55	10.76	<=34.77	Pass		
			6	21.36	-8.55	10.66	<=34.77	Pass		



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Modulation	Frequency (MHz)	RB Allocation	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
			Size	Offset			Result	Limit		
64QAM	713.5	1	13	0	21.52	-8.55	10.82	<=34.77	Pass	
			25	0	21.38	-8.55	10.68	<=34.77	Pass	
			0	0	22.45	-8.55	11.75	<=34.77	Pass	
		12	13	0	22.40	-8.55	11.70	<=34.77	Pass	
			24	0	22.30	-8.55	11.60	<=34.77	Pass	
			0	0	21.30	-8.55	10.60	<=34.77	Pass	
	25	6	0	21.37	-8.55	10.67	<=34.77	Pass		
		13	0	21.34	-8.55	10.64	<=34.77	Pass		
		0	0	21.29	-8.55	10.59	<=34.77	Pass		
	701.5	1	0	0	21.67	-8.55	10.97	<=34.77	Pass	
			13	0	21.70	-8.55	11.00	<=34.77	Pass	
			24	0	21.62	-8.55	10.92	<=34.77	Pass	
		12	0	0	20.40	-8.55	9.70	<=34.77	Pass	
			6	0	20.42	-8.55	9.72	<=34.77	Pass	
			13	0	20.39	-8.55	9.69	<=34.77	Pass	
		25	0	0	20.40	-8.55	9.70	<=34.77	Pass	
		707.5	1	0	0	21.55	-8.55	10.85	<=34.77	Pass
				13	0	21.62	-8.55	10.92	<=34.77	Pass
	24			0	21.51	-8.55	10.81	<=34.77	Pass	
	12		0	0	20.36	-8.55	9.66	<=34.77	Pass	
			6	0	20.43	-8.55	9.73	<=34.77	Pass	
			13	0	20.41	-8.55	9.71	<=34.77	Pass	
	25	0	0	20.35	-8.55	9.65	<=34.77	Pass		
	713.5	1	0	0	21.37	-8.55	10.67	<=34.77	Pass	
13			0	21.42	-8.55	10.72	<=34.77	Pass		
24			0	21.35	-8.55	10.65	<=34.77	Pass		
12		0	0	20.30	-8.55	9.60	<=34.77	Pass		
		6	0	20.42	-8.55	9.72	<=34.77	Pass		
		13	0	20.33	-8.55	9.63	<=34.77	Pass		
25		0	0	20.28	-8.55	9.58	<=34.77	Pass		

1.4 B12_10MHz_ERP

1.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	704	1	0	0	23.37	-8.55	12.67	<=34.77	Pass
			25	0	23.39	-8.55	12.69	<=34.77	Pass
			49	0	23.26	-8.55	12.56	<=34.77	Pass
		25	0	0	22.42	-8.55	11.72	<=34.77	Pass
			13	0	22.46	-8.55	11.76	<=34.77	Pass
			25	0	22.42	-8.55	11.72	<=34.77	Pass
	50	0	0	22.45	-8.55	11.75	<=34.77	Pass	
	707.5	1	0	0	23.42	-8.55	12.72	<=34.77	Pass



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16QAM	711	25	25	23.40	-8.55	12.70	<=34.77	Pass	
			49	23.23	-8.55	12.53	<=34.77	Pass	
			0	22.39	-8.55	11.69	<=34.77	Pass	
		50	13	22.40	-8.55	11.70	<=34.77	Pass	
			25	22.42	-8.55	11.72	<=34.77	Pass	
			0	22.37	-8.55	11.67	<=34.77	Pass	
	704	1	0	23.41	-8.55	12.71	<=34.77	Pass	
			25	23.36	-8.55	12.66	<=34.77	Pass	
			49	23.24	-8.55	12.54	<=34.77	Pass	
		25	0	22.35	-8.55	11.65	<=34.77	Pass	
			13	22.44	-8.55	11.74	<=34.77	Pass	
			25	22.36	-8.55	11.66	<=34.77	Pass	
	64QAM	707.5	1	0	22.40	-8.55	11.70	<=34.77	Pass
				25	22.65	-8.55	11.95	<=34.77	Pass
				49	22.62	-8.55	11.92	<=34.77	Pass
			25	0	21.44	-8.55	10.74	<=34.77	Pass
				13	21.48	-8.55	10.78	<=34.77	Pass
				25	21.47	-8.55	10.77	<=34.77	Pass
711		1	0	21.47	-8.55	10.77	<=34.77	Pass	
			25	22.53	-8.55	11.83	<=34.77	Pass	
			49	22.51	-8.55	11.81	<=34.77	Pass	
		25	0	22.39	-8.55	11.69	<=34.77	Pass	
			13	21.42	-8.55	10.72	<=34.77	Pass	
			25	21.44	-8.55	10.74	<=34.77	Pass	
704		1	0	21.42	-8.55	10.72	<=34.77	Pass	
			25	21.39	-8.55	10.69	<=34.77	Pass	
			49	21.39	-8.55	10.69	<=34.77	Pass	
		25	0	22.56	-8.55	11.86	<=34.77	Pass	
			13	22.44	-8.55	11.74	<=34.77	Pass	
			25	22.33	-8.55	11.63	<=34.77	Pass	
64QAM	707.5	1	0	21.37	-8.55	10.67	<=34.77	Pass	
			25	21.45	-8.55	10.75	<=34.77	Pass	
			49	21.37	-8.55	10.67	<=34.77	Pass	
		25	0	21.41	-8.55	10.71	<=34.77	Pass	
			13	21.72	-8.55	11.02	<=34.77	Pass	
			25	21.61	-8.55	10.91	<=34.77	Pass	
	704	1	49	21.54	-8.55	10.84	<=34.77	Pass	
			0	20.41	-8.55	9.71	<=34.77	Pass	
			13	20.48	-8.55	9.78	<=34.77	Pass	
		25	25	20.42	-8.55	9.72	<=34.77	Pass	
			0	20.47	-8.55	9.77	<=34.77	Pass	
			13	21.62	-8.55	10.92	<=34.77	Pass	
	707.5	1	25	21.61	-8.55	10.91	<=34.77	Pass	
			49	21.45	-8.55	10.75	<=34.77	Pass	
			0	20.39	-8.55	9.69	<=34.77	Pass	
		25	13	20.39	-8.55	9.69	<=34.77	Pass	
			25	20.43	-8.55	9.73	<=34.77	Pass	
			0	20.38	-8.55	9.68	<=34.77	Pass	



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711	1	0	21.58	-8.55	10.88	<=34.77	Pass
		25	21.58	-8.55	10.88	<=34.77	Pass
		49	21.37	-8.55	10.67	<=34.77	Pass
	25	0	20.38	-8.55	9.68	<=34.77	Pass
		13	20.48	-8.55	9.78	<=34.77	Pass
		25	20.37	-8.55	9.67	<=34.77	Pass
	50	0	20.39	-8.55	9.69	<=34.77	Pass



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2. Frequency Stability

2.1 B12_1.4MHz

2.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	699.7	6	0	20	3.7	11.020	0.0157	-2.5 to 2.5	Pass
					3.91	6.589	0.0094	-2.5 to 2.5	Pass
					4.4	3.238	0.0046	-2.5 to 2.5	Pass
				-30	3.91	2.653	0.0038	-2.5 to 2.5	Pass
				-20	3.91	1.218	0.0017	-2.5 to 2.5	Pass
				-10	3.91	1.362	0.0019	-2.5 to 2.5	Pass
				0	3.91	0.545	0.0008	-2.5 to 2.5	Pass
				10	3.91	0.966	0.0014	-2.5 to 2.5	Pass
				30	3.91	0.816	0.0012	-2.5 to 2.5	Pass
				40	3.91	0.617	0.0009	-2.5 to 2.5	Pass
	50	3.91	0.089	0.0001	-2.5 to 2.5	Pass			
	707.5	6	0	20	3.7	-13.280	-0.0188	-2.5 to 2.5	Pass
					3.91	-21.029	-0.0297	-2.5 to 2.5	Pass
					4.4	-14.325	-0.0202	-2.5 to 2.5	Pass
				-30	3.91	-6.651	-0.0094	-2.5 to 2.5	Pass
				-20	3.91	-3.362	-0.0048	-2.5 to 2.5	Pass
				-10	3.91	-0.051	-0.0001	-2.5 to 2.5	Pass
				0	3.91	0.143	0.0002	-2.5 to 2.5	Pass
				10	3.91	0.950	0.0013	-2.5 to 2.5	Pass
				30	3.91	-0.055	-0.0001	-2.5 to 2.5	Pass
				40	3.91	0.155	0.0002	-2.5 to 2.5	Pass
	50	3.91	0.639	0.0009	-2.5 to 2.5	Pass			
	715.3	6	0	20	3.7	-3.165	-0.0044	-2.5 to 2.5	Pass
					3.91	-8.524	-0.0119	-2.5 to 2.5	Pass
					4.4	-14.321	-0.0200	-2.5 to 2.5	Pass
				-30	3.91	-20.617	-0.0288	-2.5 to 2.5	Pass
				-20	3.91	-12.748	-0.0178	-2.5 to 2.5	Pass
				-10	3.91	-5.674	-0.0079	-2.5 to 2.5	Pass
				0	3.91	-2.344	-0.0033	-2.5 to 2.5	Pass
				10	3.91	-0.927	-0.0013	-2.5 to 2.5	Pass
30				3.91	-0.395	-0.0006	-2.5 to 2.5	Pass	
40				3.91	1.049	0.0015	-2.5 to 2.5	Pass	
50	3.91	1.042	0.0015	-2.5 to 2.5	Pass				
16QAM	699.7	6	0	20	3.7	0.521	0.0007	-2.5 to 2.5	Pass
					3.91	0.097	0.0001	-2.5 to 2.5	Pass
					4.4	0.705	0.0010	-2.5 to 2.5	Pass
					-30	3.91	0.214	0.0003	-2.5 to 2.5



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64QAM	707.5	6	0	-20	3.91	0.589	0.0008	-2.5 to 2.5	Pass		
				-10	3.91	0.784	0.0011	-2.5 to 2.5	Pass		
				0	3.91	-0.534	-0.0008	-2.5 to 2.5	Pass		
				10	3.91	1.026	0.0015	-2.5 to 2.5	Pass		
				30	3.91	-0.814	-0.0012	-2.5 to 2.5	Pass		
				40	3.91	1.299	0.0019	-2.5 to 2.5	Pass		
				50	3.91	-0.629	-0.0009	-2.5 to 2.5	Pass		
	707.5	6	0	20	3.7	0.800	0.0011	-2.5 to 2.5	Pass		
					3.91	1.200	0.0017	-2.5 to 2.5	Pass		
					4.4	-0.020	0.0000	-2.5 to 2.5	Pass		
				-30	3.91	-0.316	-0.0004	-2.5 to 2.5	Pass		
				-20	3.91	-0.492	-0.0007	-2.5 to 2.5	Pass		
				-10	3.91	0.844	0.0012	-2.5 to 2.5	Pass		
				0	3.91	0.830	0.0012	-2.5 to 2.5	Pass		
				10	3.91	1.156	0.0016	-2.5 to 2.5	Pass		
				30	3.91	0.134	0.0002	-2.5 to 2.5	Pass		
				40	3.91	0.016	0.0000	-2.5 to 2.5	Pass		
				50	3.91	1.032	0.0015	-2.5 to 2.5	Pass		
	715.3	6	0	20	3.7	0.988	0.0014	-2.5 to 2.5	Pass		
					3.91	1.160	0.0016	-2.5 to 2.5	Pass		
					4.4	1.725	0.0024	-2.5 to 2.5	Pass		
				-30	3.91	1.289	0.0018	-2.5 to 2.5	Pass		
				-20	3.91	-0.594	-0.0008	-2.5 to 2.5	Pass		
				-10	3.91	-0.116	-0.0002	-2.5 to 2.5	Pass		
				0	3.91	0.207	0.0003	-2.5 to 2.5	Pass		
				10	3.91	0.371	0.0005	-2.5 to 2.5	Pass		
				30	3.91	0.347	0.0005	-2.5 to 2.5	Pass		
				40	3.91	1.595	0.0022	-2.5 to 2.5	Pass		
50				3.91	1.027	0.0014	-2.5 to 2.5	Pass			
699.7	6	0	20	3.7	-0.040	-0.0001	-2.5 to 2.5	Pass			
				3.91	1.008	0.0014	-2.5 to 2.5	Pass			
				4.4	0.958	0.0014	-2.5 to 2.5	Pass			
			-30	3.91	0.993	0.0014	-2.5 to 2.5	Pass			
			-20	3.91	1.169	0.0017	-2.5 to 2.5	Pass			
			-10	3.91	1.256	0.0018	-2.5 to 2.5	Pass			
			0	3.91	0.975	0.0014	-2.5 to 2.5	Pass			
			10	3.91	1.102	0.0016	-2.5 to 2.5	Pass			
			30	3.91	1.296	0.0019	-2.5 to 2.5	Pass			
			40	3.91	-0.071	-0.0001	-2.5 to 2.5	Pass			
			50	3.91	0.425	0.0006	-2.5 to 2.5	Pass			
			707.5	6	0	20	3.7	-0.059	-0.0001	-2.5 to 2.5	Pass
							3.91	2.131	0.0030	-2.5 to 2.5	Pass
							4.4	0.021	0.0000	-2.5 to 2.5	Pass
-30	3.91	1.463				0.0021	-2.5 to 2.5	Pass			
-20	3.91	1.197				0.0017	-2.5 to 2.5	Pass			
-10	3.91	1.857				0.0026	-2.5 to 2.5	Pass			
0	3.91	0.818				0.0012	-2.5 to 2.5	Pass			
10	3.91	1.516	0.0021	-2.5 to 2.5	Pass						



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Modulation	Frequency (MHz)	RB Allocation Size	Offset	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)	Verdict	
				Result	Limit				
QPSK	715.3	6	0	30	3.91	1.319	0.0019	-2.5 to 2.5	Pass
				40	3.91	0.301	0.0004	-2.5 to 2.5	Pass
				50	3.91	0.089	0.0001	-2.5 to 2.5	Pass
				20	3.7	0.110	0.0002	-2.5 to 2.5	Pass
					3.91	1.033	0.0014	-2.5 to 2.5	Pass
					4.4	0.403	0.0006	-2.5 to 2.5	Pass
				-30	3.91	1.399	0.0020	-2.5 to 2.5	Pass
				-20	3.91	1.901	0.0027	-2.5 to 2.5	Pass
				-10	3.91	1.414	0.0020	-2.5 to 2.5	Pass
				0	3.91	0.008	0.0000	-2.5 to 2.5	Pass
				10	3.91	0.739	0.0010	-2.5 to 2.5	Pass
				30	3.91	0.978	0.0014	-2.5 to 2.5	Pass
				40	3.91	1.041	0.0015	-2.5 to 2.5	Pass
				50	3.91	1.191	0.0017	-2.5 to 2.5	Pass

2.2 B12_3MHz

2.2.1 Test Result

Band: 12 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	700.5	15	0	20	3.7	1.387	0.0020	-2.5 to 2.5	Pass
					3.91	0.412	0.0006	-2.5 to 2.5	Pass
					4.4	0.635	0.0009	-2.5 to 2.5	Pass
				-30	3.91	1.654	0.0024	-2.5 to 2.5	Pass
				-20	3.91	1.049	0.0015	-2.5 to 2.5	Pass
				-10	3.91	0.394	0.0006	-2.5 to 2.5	Pass
				0	3.91	1.815	0.0026	-2.5 to 2.5	Pass
				10	3.91	0.729	0.0010	-2.5 to 2.5	Pass
				30	3.91	1.363	0.0019	-2.5 to 2.5	Pass
				40	3.91	0.388	0.0006	-2.5 to 2.5	Pass
				50	3.91	1.252	0.0018	-2.5 to 2.5	Pass
				707.5	15	0	20	3.7	0.531
	3.91	0.516	0.0007					-2.5 to 2.5	Pass
	4.4	0.731	0.0010					-2.5 to 2.5	Pass
	-30	3.91	0.063				0.0001	-2.5 to 2.5	Pass
	-20	3.91	0.488				0.0007	-2.5 to 2.5	Pass
	-10	3.91	1.300				0.0018	-2.5 to 2.5	Pass
	0	3.91	0.403				0.0006	-2.5 to 2.5	Pass
	10	3.91	0.603				0.0009	-2.5 to 2.5	Pass
	30	3.91	0.770				0.0011	-2.5 to 2.5	Pass
	40	3.91	1.227				0.0017	-2.5 to 2.5	Pass
	50	3.91	1.213				0.0017	-2.5 to 2.5	Pass
	714.5	15	0				20	3.7	0.965
				3.91	1.304	0.0018		-2.5 to 2.5	Pass



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					4.4	0.629	0.0009	-2.5 to 2.5	Pass
				-30	3.91	0.864	0.0012	-2.5 to 2.5	Pass
				-20	3.91	1.623	0.0023	-2.5 to 2.5	Pass
				-10	3.91	0.433	0.0006	-2.5 to 2.5	Pass
				0	3.91	0.285	0.0004	-2.5 to 2.5	Pass
				10	3.91	0.850	0.0012	-2.5 to 2.5	Pass
				30	3.91	1.168	0.0016	-2.5 to 2.5	Pass
				40	3.91	0.299	0.0004	-2.5 to 2.5	Pass
				50	3.91	1.227	0.0017	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.7	-0.524	-0.0007	-2.5 to 2.5	Pass
					3.91	0.331	0.0005	-2.5 to 2.5	Pass
					4.4	0.457	0.0007	-2.5 to 2.5	Pass
				-30	3.91	0.414	0.0006	-2.5 to 2.5	Pass
				-20	3.91	0.168	0.0002	-2.5 to 2.5	Pass
				-10	3.91	-0.778	-0.0011	-2.5 to 2.5	Pass
				0	3.91	0.396	0.0006	-2.5 to 2.5	Pass
				10	3.91	0.514	0.0007	-2.5 to 2.5	Pass
				30	3.91	0.884	0.0013	-2.5 to 2.5	Pass
				40	3.91	0.374	0.0005	-2.5 to 2.5	Pass
				50	3.91	-0.147	-0.0002	-2.5 to 2.5	Pass
				707.5	15	0	20	3.7	0.910
	3.91	1.141	0.0016					-2.5 to 2.5	Pass
	4.4	0.344	0.0005					-2.5 to 2.5	Pass
	-30	3.91	0.618				0.0009	-2.5 to 2.5	Pass
	-20	3.91	1.092				0.0015	-2.5 to 2.5	Pass
	-10	3.91	1.593				0.0023	-2.5 to 2.5	Pass
	0	3.91	0.237				0.0003	-2.5 to 2.5	Pass
	10	3.91	0.648				0.0009	-2.5 to 2.5	Pass
	30	3.91	0.518				0.0007	-2.5 to 2.5	Pass
	40	3.91	1.346				0.0019	-2.5 to 2.5	Pass
	50	3.91	-0.007				0.0000	-2.5 to 2.5	Pass
	714.5	15	0				20	3.7	-0.015
				3.91	0.846	0.0012		-2.5 to 2.5	Pass
4.4				0.286	0.0004	-2.5 to 2.5		Pass	
-30				3.91	0.801	0.0011	-2.5 to 2.5	Pass	
-20				3.91	1.128	0.0016	-2.5 to 2.5	Pass	
-10				3.91	0.275	0.0004	-2.5 to 2.5	Pass	
0				3.91	0.943	0.0013	-2.5 to 2.5	Pass	
10				3.91	0.137	0.0002	-2.5 to 2.5	Pass	
30				3.91	0.315	0.0004	-2.5 to 2.5	Pass	
40				3.91	-0.067	-0.0001	-2.5 to 2.5	Pass	
50				3.91	-0.435	-0.0006	-2.5 to 2.5	Pass	
64QAM				700.5	15	0	20	3.7	-0.208
	3.91	-0.142	-0.0002					-2.5 to 2.5	Pass
	4.4	0.499	0.0007					-2.5 to 2.5	Pass
	-30	3.91	-0.251				-0.0004	-2.5 to 2.5	Pass
	-20	3.91	-0.252				-0.0004	-2.5 to 2.5	Pass
	-10	3.91	0.027				0.0000	-2.5 to 2.5	Pass



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707.5	15	0	0	3.91	-0.055	-0.0001	-2.5 to 2.5	Pass				
			10	3.91	0.652	0.0009	-2.5 to 2.5	Pass				
			30	3.91	-0.075	-0.0001	-2.5 to 2.5	Pass				
			40	3.91	0.656	0.0009	-2.5 to 2.5	Pass				
			50	3.91	0.998	0.0014	-2.5 to 2.5	Pass				
	714.5	15	0	20	3.7	1.177	0.0017	-2.5 to 2.5	Pass			
					3.91	0.450	0.0006	-2.5 to 2.5	Pass			
					4.4	-0.574	-0.0008	-2.5 to 2.5	Pass			
				-30	3.91	0.321	0.0005	-2.5 to 2.5	Pass			
				-20	3.91	-0.049	-0.0001	-2.5 to 2.5	Pass			
				-10	3.91	0.544	0.0008	-2.5 to 2.5	Pass			
				0	3.91	0.046	0.0001	-2.5 to 2.5	Pass			
				10	3.91	-0.358	-0.0005	-2.5 to 2.5	Pass			
				30	3.91	0.743	0.0011	-2.5 to 2.5	Pass			
				40	3.91	-0.788	-0.0011	-2.5 to 2.5	Pass			
				50	3.91	0.130	0.0002	-2.5 to 2.5	Pass			
				714.5	15	0	20	3.7	-0.533	-0.0007	-2.5 to 2.5	Pass
								3.91	0.239	0.0003	-2.5 to 2.5	Pass
								4.4	0.420	0.0006	-2.5 to 2.5	Pass
-30	3.91	0.228	0.0003				-2.5 to 2.5	Pass				
-20	3.91	0.182	0.0003				-2.5 to 2.5	Pass				
-10	3.91	1.283	0.0018				-2.5 to 2.5	Pass				
0	3.91	-0.210	-0.0003				-2.5 to 2.5	Pass				
10	3.91	1.113	0.0016				-2.5 to 2.5	Pass				
30	3.91	0.401	0.0006				-2.5 to 2.5	Pass				
40	3.91	-0.554	-0.0008				-2.5 to 2.5	Pass				
50	3.91	-0.142	-0.0002	-2.5 to 2.5	Pass							

2.3 B12_5MHz

2.3.1 Test Result

Band: 12 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	701.5	25	0	20	3.7	0.105	0.0001	-2.5 to 2.5	Pass
					3.91	-0.606	-0.0009	-2.5 to 2.5	Pass
					4.4	0.444	0.0006	-2.5 to 2.5	Pass
				-30	3.91	0.494	0.0007	-2.5 to 2.5	Pass
				-20	3.91	0.218	0.0003	-2.5 to 2.5	Pass
				-10	3.91	1.700	0.0024	-2.5 to 2.5	Pass
				0	3.91	1.480	0.0021	-2.5 to 2.5	Pass
				10	3.91	0.363	0.0005	-2.5 to 2.5	Pass
				30	3.91	0.105	0.0001	-2.5 to 2.5	Pass
				40	3.91	1.309	0.0019	-2.5 to 2.5	Pass
				50	3.91	1.393	0.0020	-2.5 to 2.5	Pass



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707.5	25	0	20	3.7	2.011	0.0028	-2.5 to 2.5	Pass	
				3.91	2.202	0.0031	-2.5 to 2.5	Pass	
				4.4	1.474	0.0021	-2.5 to 2.5	Pass	
			-30	3.91	1.677	0.0024	-2.5 to 2.5	Pass	
			-20	3.91	1.222	0.0017	-2.5 to 2.5	Pass	
			-10	3.91	1.695	0.0024	-2.5 to 2.5	Pass	
			0	3.91	0.941	0.0013	-2.5 to 2.5	Pass	
			10	3.91	0.250	0.0004	-2.5 to 2.5	Pass	
			30	3.91	1.513	0.0021	-2.5 to 2.5	Pass	
	40	3.91	-0.302	-0.0004	-2.5 to 2.5	Pass			
	50	3.91	0.816	0.0012	-2.5 to 2.5	Pass			
	713.5	25	0	20	3.7	1.513	0.0021	-2.5 to 2.5	Pass
					3.91	2.857	0.0040	-2.5 to 2.5	Pass
					4.4	1.068	0.0015	-2.5 to 2.5	Pass
				-30	3.91	1.892	0.0027	-2.5 to 2.5	Pass
				-20	3.91	0.704	0.0010	-2.5 to 2.5	Pass
				-10	3.91	0.980	0.0014	-2.5 to 2.5	Pass
				0	3.91	-0.529	-0.0007	-2.5 to 2.5	Pass
10				3.91	1.672	0.0023	-2.5 to 2.5	Pass	
30				3.91	0.420	0.0006	-2.5 to 2.5	Pass	
40	3.91	0.013	0.0000	-2.5 to 2.5	Pass				
50	3.91	0.297	0.0004	-2.5 to 2.5	Pass				
701.5	25	0	20	3.7	1.707	0.0024	-2.5 to 2.5	Pass	
				3.91	1.358	0.0019	-2.5 to 2.5	Pass	
				4.4	2.005	0.0029	-2.5 to 2.5	Pass	
			-30	3.91	2.097	0.0030	-2.5 to 2.5	Pass	
			-20	3.91	2.113	0.0030	-2.5 to 2.5	Pass	
			-10	3.91	1.772	0.0025	-2.5 to 2.5	Pass	
			0	3.91	1.443	0.0021	-2.5 to 2.5	Pass	
			10	3.91	1.824	0.0026	-2.5 to 2.5	Pass	
			30	3.91	1.778	0.0025	-2.5 to 2.5	Pass	
	40	3.91	1.189	0.0017	-2.5 to 2.5	Pass			
	50	3.91	1.420	0.0020	-2.5 to 2.5	Pass			
	707.5	25	0	20	3.7	-0.286	-0.0004	-2.5 to 2.5	Pass
					3.91	-0.268	-0.0004	-2.5 to 2.5	Pass
					4.4	-0.242	-0.0003	-2.5 to 2.5	Pass
				-30	3.91	-0.418	-0.0006	-2.5 to 2.5	Pass
				-20	3.91	-0.075	-0.0001	-2.5 to 2.5	Pass
				-10	3.91	-0.689	-0.0010	-2.5 to 2.5	Pass
				0	3.91	0.078	0.0001	-2.5 to 2.5	Pass
10				3.91	-0.412	-0.0006	-2.5 to 2.5	Pass	
30				3.91	0.131	0.0002	-2.5 to 2.5	Pass	
40		3.91	0.491	0.0007	-2.5 to 2.5	Pass			
50		3.91	-0.184	-0.0003	-2.5 to 2.5	Pass			
713.5		25	0	20	3.7	-0.220	-0.0003	-2.5 to 2.5	Pass
					3.91	0.512	0.0007	-2.5 to 2.5	Pass
					4.4	-0.535	-0.0007	-2.5 to 2.5	Pass
				-30	3.91	0.428	0.0006	-2.5 to 2.5	Pass



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				-20	3.91	0.170	0.0002	-2.5 to 2.5	Pass	
				-10	3.91	-0.746	-0.0010	-2.5 to 2.5	Pass	
				0	3.91	-0.497	-0.0007	-2.5 to 2.5	Pass	
				10	3.91	0.344	0.0005	-2.5 to 2.5	Pass	
				30	3.91	0.535	0.0007	-2.5 to 2.5	Pass	
				40	3.91	-1.072	-0.0015	-2.5 to 2.5	Pass	
				50	3.91	0.149	0.0002	-2.5 to 2.5	Pass	
64QAM	701.5	25	0	20	3.7	0.215	0.0003	-2.5 to 2.5	Pass	
					3.91	0.828	0.0012	-2.5 to 2.5	Pass	
					4.4	-0.585	-0.0008	-2.5 to 2.5	Pass	
				-30	3.91	-0.860	-0.0012	-2.5 to 2.5	Pass	
					-20	3.91	-0.604	-0.0009	-2.5 to 2.5	Pass
						-10	3.91	0.995	0.0014	-2.5 to 2.5
				0			3.91	1.238	0.0018	-2.5 to 2.5
					10		3.91	0.618	0.0009	-2.5 to 2.5
						30	3.91	0.827	0.0012	-2.5 to 2.5
				40			3.91	0.156	0.0002	-2.5 to 2.5
					50		3.91	0.576	0.0008	-2.5 to 2.5
						707.5	25	0	20	3.7
	3.91	-0.354	-0.0005	-2.5 to 2.5						Pass
	4.4	0.831	0.0012	-2.5 to 2.5	Pass					
	-30	3.91	0.245	0.0003	-2.5 to 2.5				Pass	
		-20	3.91	0.172	0.0002				-2.5 to 2.5	Pass
			-10	3.91	-0.389				-0.0005	-2.5 to 2.5
	0			3.91	-0.045				-0.0001	-2.5 to 2.5
		10		3.91	0.175				0.0002	-2.5 to 2.5
			30	3.91	-1.272				-0.0018	-2.5 to 2.5
	40			3.91	0.315				0.0004	-2.5 to 2.5
		50		3.91	-0.575				-0.0008	-2.5 to 2.5
			713.5	25	0				20	3.7
	3.91					-0.400	-0.0006	-2.5 to 2.5		Pass
4.4	0.245	0.0003				-2.5 to 2.5	Pass			
-30	3.91	-0.445				-0.0006	-2.5 to 2.5	Pass		
	-20	3.91				0.062	0.0001	-2.5 to 2.5	Pass	
		-10				3.91	-0.117	-0.0002	-2.5 to 2.5	Pass
0						3.91	0.999	0.0014	-2.5 to 2.5	Pass
	10					3.91	-0.157	-0.0002	-2.5 to 2.5	Pass
		30				3.91	-0.476	-0.0007	-2.5 to 2.5	Pass
40						3.91	-0.266	-0.0004	-2.5 to 2.5	Pass
	50					3.91	0.343	0.0005	-2.5 to 2.5	Pass



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2.4 B12_10MHz

2.4.1 Test Result

Band: 12 / Bandwidth: 10MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	704	50	0	20	3.7	0.445	0.0006	-2.5 to 2.5	Pass	
					3.91	-0.082	-0.0001	-2.5 to 2.5	Pass	
					4.4	0.271	0.0004	-2.5 to 2.5	Pass	
				-30	3.91	0.399	0.0006	-2.5 to 2.5	Pass	
					-20	3.91	0.471	0.0007	-2.5 to 2.5	Pass
						-10	3.91	-1.190	-0.0017	-2.5 to 2.5
				0	3.91	-0.502	-0.0007	-2.5 to 2.5	Pass	
					10	3.91	0.393	0.0006	-2.5 to 2.5	Pass
					30	3.91	0.496	0.0007	-2.5 to 2.5	Pass
	40	3.91	0.099		0.0001	-2.5 to 2.5	Pass			
	50	3.91	-0.991		-0.0014	-2.5 to 2.5	Pass			
	707.5	50	0		20	3.7	-0.225	-0.0003	-2.5 to 2.5	Pass
				3.91		-0.693	-0.0010	-2.5 to 2.5	Pass	
				4.4		0.202	0.0003	-2.5 to 2.5	Pass	
				-30	3.91	-0.520	-0.0007	-2.5 to 2.5	Pass	
					-20	3.91	0.972	0.0014	-2.5 to 2.5	Pass
						-10	3.91	-0.301	-0.0004	-2.5 to 2.5
				0	3.91	-1.351	-0.0019	-2.5 to 2.5	Pass	
					10	3.91	-0.053	-0.0001	-2.5 to 2.5	Pass
					30	3.91	0.884	0.0012	-2.5 to 2.5	Pass
	40	3.91	0.287		0.0004	-2.5 to 2.5	Pass			
	50	3.91	0.058		0.0001	-2.5 to 2.5	Pass			
	711	50	0		20	3.7	0.574	0.0008	-2.5 to 2.5	Pass
				3.91		-0.954	-0.0013	-2.5 to 2.5	Pass	
				4.4		-0.532	-0.0007	-2.5 to 2.5	Pass	
				-30	3.91	-0.751	-0.0011	-2.5 to 2.5	Pass	
					-20	3.91	-0.246	-0.0003	-2.5 to 2.5	Pass
-10						3.91	-0.073	-0.0001	-2.5 to 2.5	Pass
0				3.91	-0.398	-0.0006	-2.5 to 2.5	Pass		
				10	3.91	1.341	0.0019	-2.5 to 2.5	Pass	
				30	3.91	0.036	0.0001	-2.5 to 2.5	Pass	
	40	3.91	1.115	0.0016	-2.5 to 2.5	Pass				
	50	3.91	0.243	0.0003	-2.5 to 2.5	Pass				
	16QAM	704	50	0	20	3.7	-0.109	-0.0002	-2.5 to 2.5	Pass
3.91						-0.305	-0.0004	-2.5 to 2.5	Pass	
4.4						0.491	0.0007	-2.5 to 2.5	Pass	
-30					3.91	-0.140	-0.0002	-2.5 to 2.5	Pass	
					-20	3.91	0.646	0.0009	-2.5 to 2.5	Pass
						-10	3.91	0.646	0.0009	-2.5 to 2.5



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64QAM	707.5	50	0	-10	3.91	1.056	0.0015	-2.5 to 2.5	Pass			
				0	3.91	0.337	0.0005	-2.5 to 2.5	Pass			
				10	3.91	-0.861	-0.0012	-2.5 to 2.5	Pass			
				30	3.91	0.566	0.0008	-2.5 to 2.5	Pass			
				40	3.91	1.109	0.0016	-2.5 to 2.5	Pass			
				50	3.91	-0.263	-0.0004	-2.5 to 2.5	Pass			
	711	50	0	20	3.7	0.013	0.0000	-2.5 to 2.5	Pass			
					3.91	-1.589	-0.0022	-2.5 to 2.5	Pass			
					4.4	-1.192	-0.0017	-2.5 to 2.5	Pass			
				-30	3.91	-0.787	-0.0011	-2.5 to 2.5	Pass			
					-20	3.91	0.541	0.0008	-2.5 to 2.5	Pass		
						3.91	0.422	0.0006	-2.5 to 2.5	Pass		
				0	3.91	0.124	0.0002	-2.5 to 2.5	Pass			
					10	3.91	-0.701	-0.0010	-2.5 to 2.5	Pass		
					30	3.91	-0.798	-0.0011	-2.5 to 2.5	Pass		
					40	3.91	0.155	0.0002	-2.5 to 2.5	Pass		
					50	3.91	-0.686	-0.0010	-2.5 to 2.5	Pass		
						3.91	-0.686	-0.0010	-2.5 to 2.5	Pass		
	704	50	0	20	3.7	-0.484	-0.0007	-2.5 to 2.5	Pass			
					3.91	0.142	0.0002	-2.5 to 2.5	Pass			
					4.4	0.421	0.0006	-2.5 to 2.5	Pass			
				-30	3.91	-0.312	-0.0004	-2.5 to 2.5	Pass			
					-20	3.91	-0.659	-0.0009	-2.5 to 2.5	Pass		
						3.91	0.080	0.0001	-2.5 to 2.5	Pass		
				0	3.91	-0.711	-0.0010	-2.5 to 2.5	Pass			
					10	3.91	-0.052	-0.0001	-2.5 to 2.5	Pass		
					30	3.91	-0.100	-0.0001	-2.5 to 2.5	Pass		
					40	3.91	-1.052	-0.0015	-2.5 to 2.5	Pass		
					50	3.91	0.474	0.0007	-2.5 to 2.5	Pass		
						3.91	0.474	0.0007	-2.5 to 2.5	Pass		
707.5	50	0	20	3.7	-1.111	-0.0016	-2.5 to 2.5	Pass				
				3.91	-1.138	-0.0016	-2.5 to 2.5	Pass				
				4.4	-0.648	-0.0009	-2.5 to 2.5	Pass				
			-30	3.91	-0.186	-0.0003	-2.5 to 2.5	Pass				
				-20	3.91	-0.832	-0.0012	-2.5 to 2.5	Pass			
					3.91	0.105	0.0001	-2.5 to 2.5	Pass			
			0	3.91	1.046	0.0015	-2.5 to 2.5	Pass				
				10	3.91	-0.769	-0.0011	-2.5 to 2.5	Pass			
				30	3.91	-0.738	-0.0010	-2.5 to 2.5	Pass			
				40	3.91	0.371	0.0005	-2.5 to 2.5	Pass			
				50	3.91	-1.263	-0.0018	-2.5 to 2.5	Pass			
					3.91	-1.263	-0.0018	-2.5 to 2.5	Pass			
			20	50	0	3.7	0.452	0.0006	-2.5 to 2.5	Pass		
							3.91	0.670	0.0009	-2.5 to 2.5	Pass	
							4.4	0.645	0.0009	-2.5 to 2.5	Pass	
						-30	3.91	0.619	0.0009	-2.5 to 2.5	Pass	
							-20	3.91	0.284	0.0004	-2.5 to 2.5	Pass
								3.91	-0.385	-0.0005	-2.5 to 2.5	Pass
0	3.91	0.412				0.0006	-2.5 to 2.5	Pass				
	10	3.91				-0.326	-0.0005	-2.5 to 2.5	Pass			
	30	3.91				-0.585	-0.0008	-2.5 to 2.5	Pass			



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				40	3.91	-0.263	-0.0004	-2.5 to 2.5	Pass
				50	3.91	-0.037	-0.0001	-2.5 to 2.5	Pass
				20	3.7	-0.117	-0.0002	-2.5 to 2.5	Pass
					3.91	-0.845	-0.0012	-2.5 to 2.5	Pass
					4.4	-0.802	-0.0011	-2.5 to 2.5	Pass
				-30	3.91	-0.145	-0.0002	-2.5 to 2.5	Pass
				-20	3.91	0.754	0.0011	-2.5 to 2.5	Pass
				-10	3.91	-0.376	-0.0005	-2.5 to 2.5	Pass
				0	3.91	-0.630	-0.0009	-2.5 to 2.5	Pass
				10	3.91	0.641	0.0009	-2.5 to 2.5	Pass
				30	3.91	0.318	0.0004	-2.5 to 2.5	Pass
				40	3.91	-0.745	-0.0010	-2.5 to 2.5	Pass
				50	3.91	-0.369	-0.0005	-2.5 to 2.5	Pass



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3. 99% & 26dB Bandwidth

3.1 Band12_OBW

3.1.1 Test Result

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.122	/	Pass
		707.5	6	0	1.121	/	Pass
		715.3	6	0	1.126	/	Pass
	16QAM	699.7	6	0	1.117	/	Pass
		707.5	6	0	1.134	/	Pass
		715.3	6	0	1.125	/	Pass
	64QAM	699.7	6	0	1.126	/	Pass
		707.5	6	0	1.121	/	Pass
		715.3	6	0	1.121	/	Pass
3	QPSK	700.5	15	0	2.757	/	Pass
		707.5	15	0	2.748	/	Pass
		714.5	15	0	2.750	/	Pass
	16QAM	700.5	15	0	2.753	/	Pass
		707.5	15	0	2.745	/	Pass
		714.5	15	0	2.751	/	Pass
	64QAM	700.5	15	0	2.750	/	Pass
		707.5	15	0	2.745	/	Pass
		714.5	15	0	2.745	/	Pass
5	QPSK	701.5	25	0	4.560	/	Pass
		707.5	25	0	4.573	/	Pass
		713.5	25	0	4.580	/	Pass
	16QAM	701.5	25	0	4.560	/	Pass
		707.5	25	0	4.565	/	Pass
		713.5	25	0	4.569	/	Pass
	64QAM	701.5	25	0	4.569	/	Pass
		707.5	25	0	4.573	/	Pass
		713.5	25	0	4.569	/	Pass
10	QPSK	704	50	0	9.019	/	Pass
		707.5	50	0	9.081	/	Pass
		711	50	0	9.094	/	Pass
	16QAM	704	50	0	9.007	/	Pass
		707.5	50	0	9.084	/	Pass
		711	50	0	9.090	/	Pass
	64QAM	704	50	0	8.998	/	Pass
		707.5	50	0	9.078	/	Pass
		711	50	0	9.070	/	Pass



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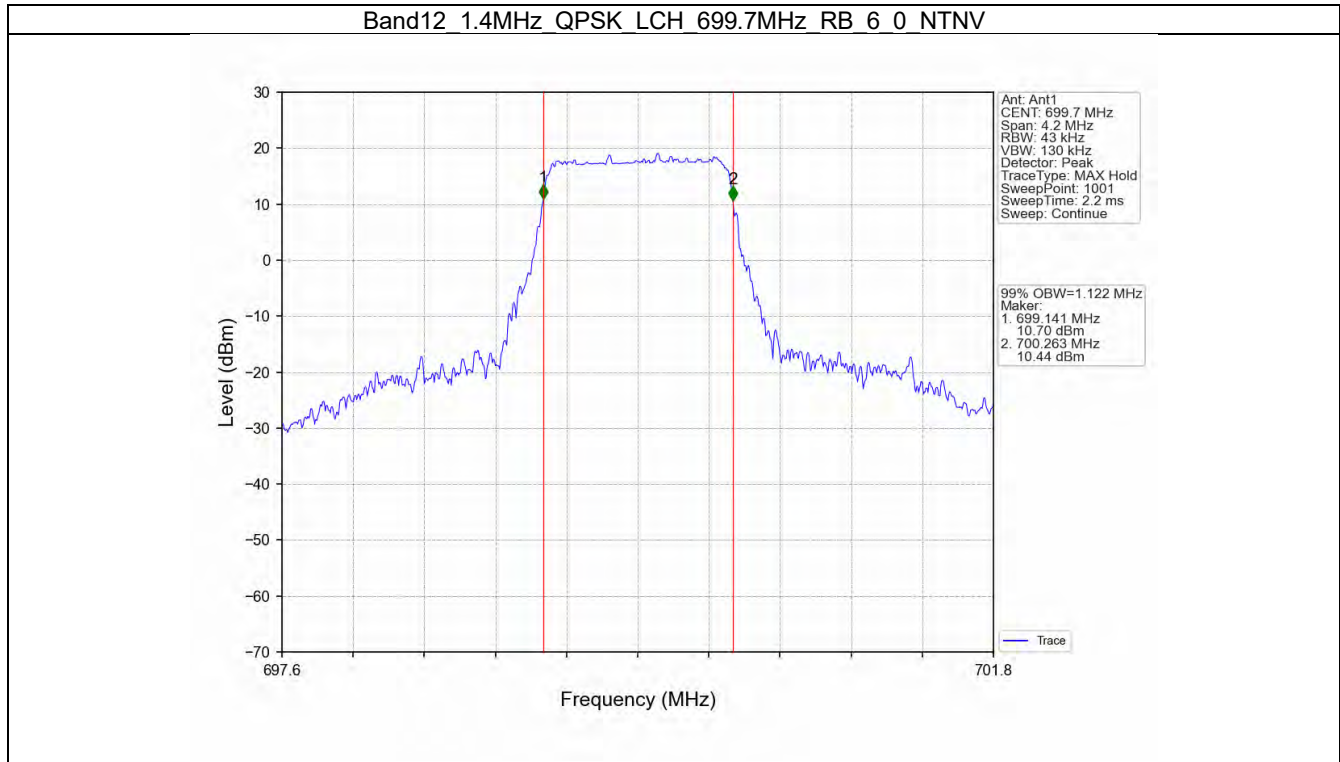
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3.1.2 Test Graph



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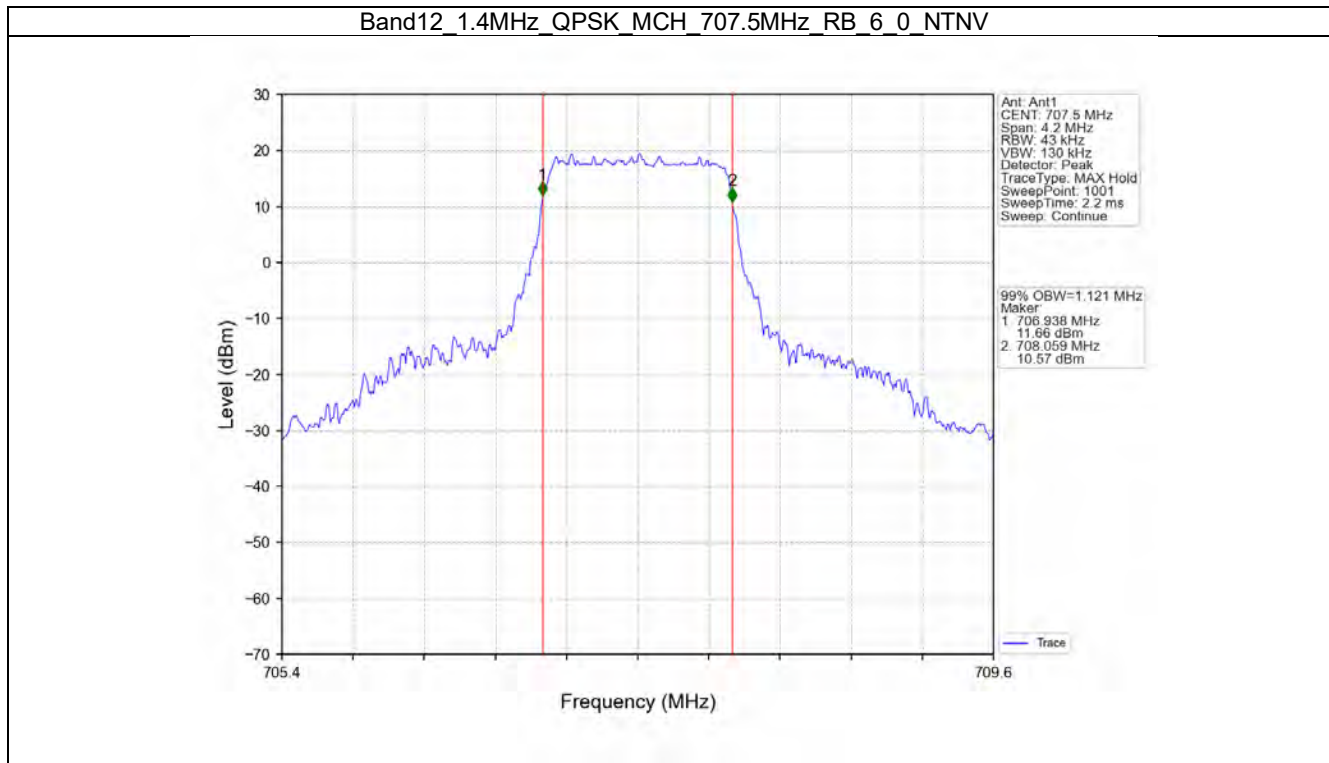
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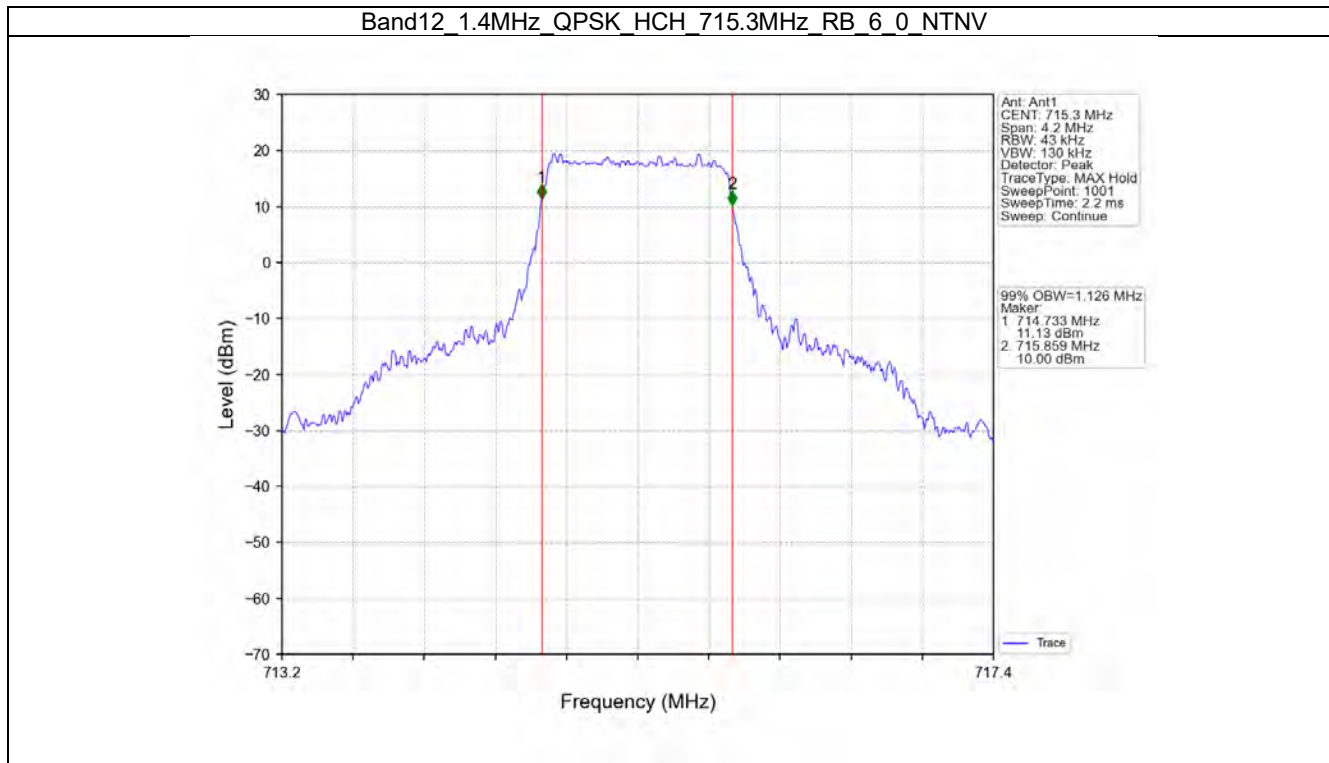
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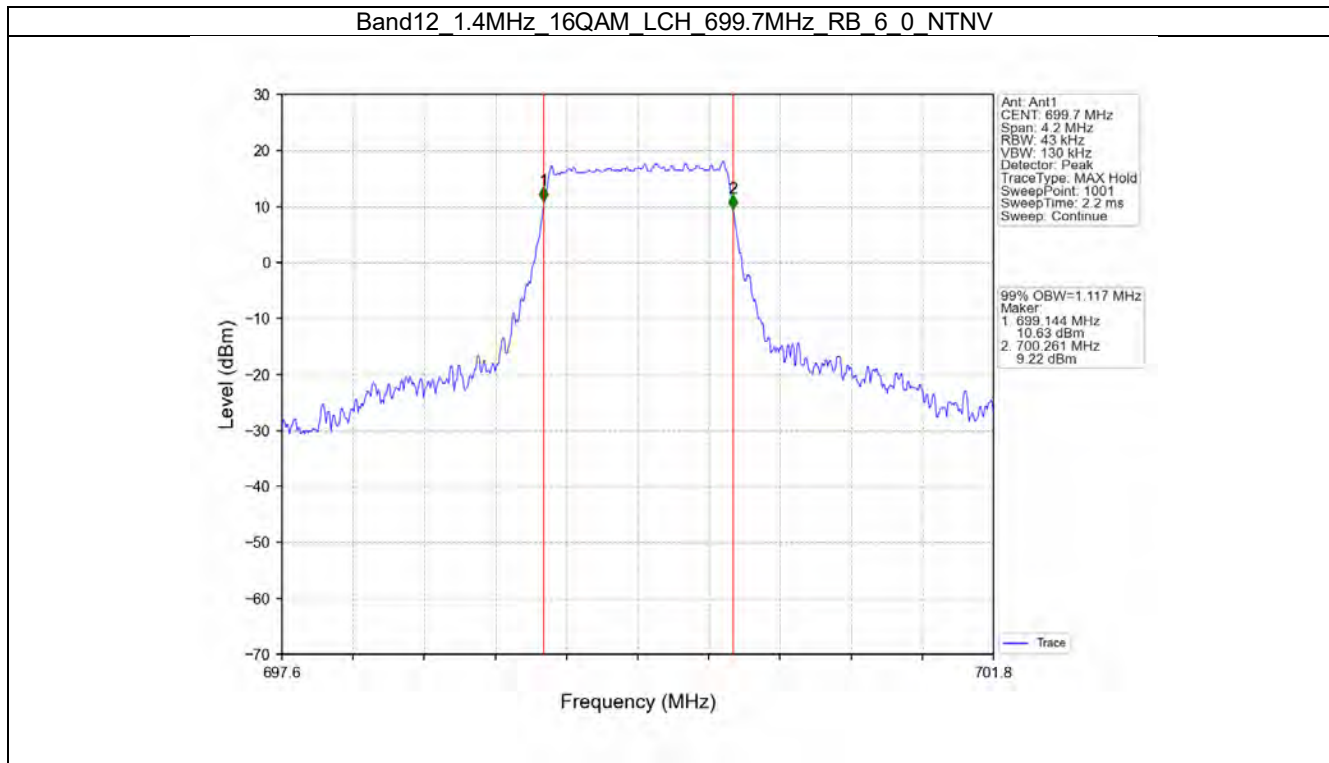
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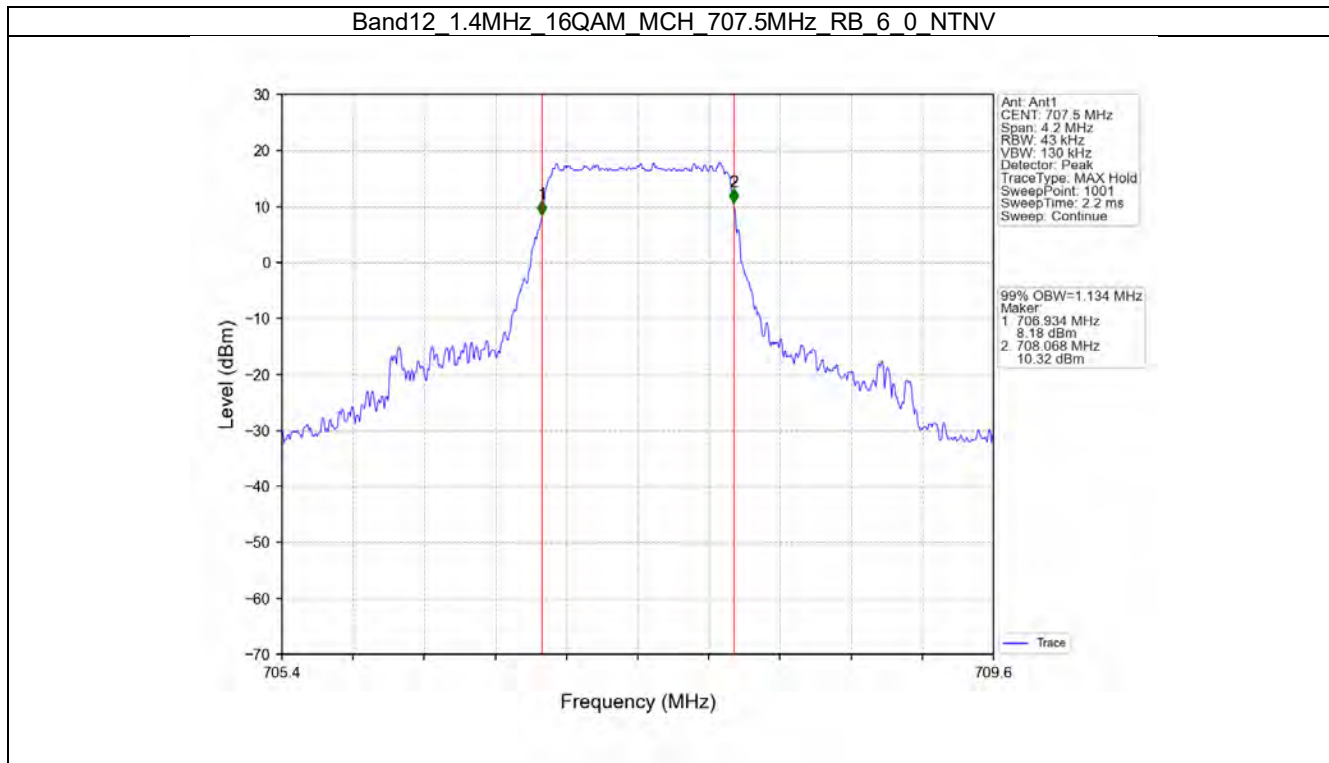
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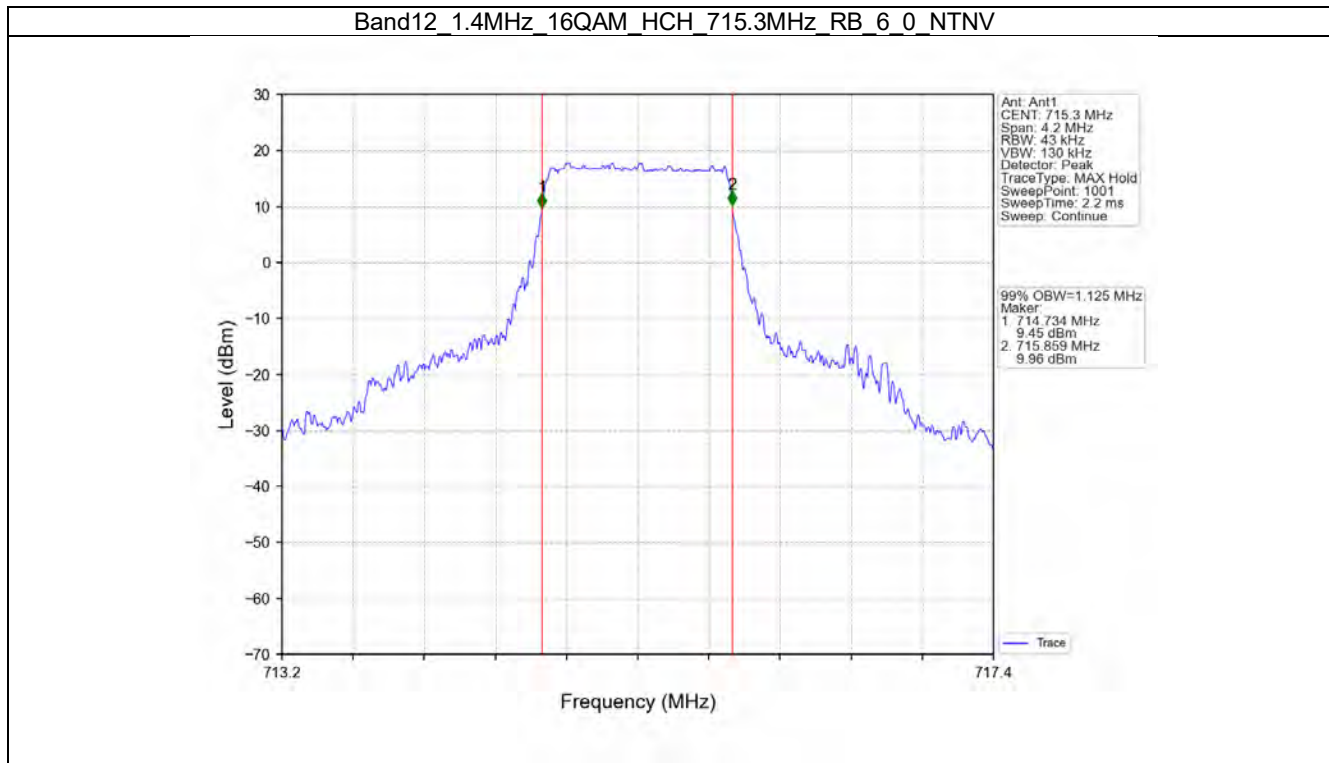
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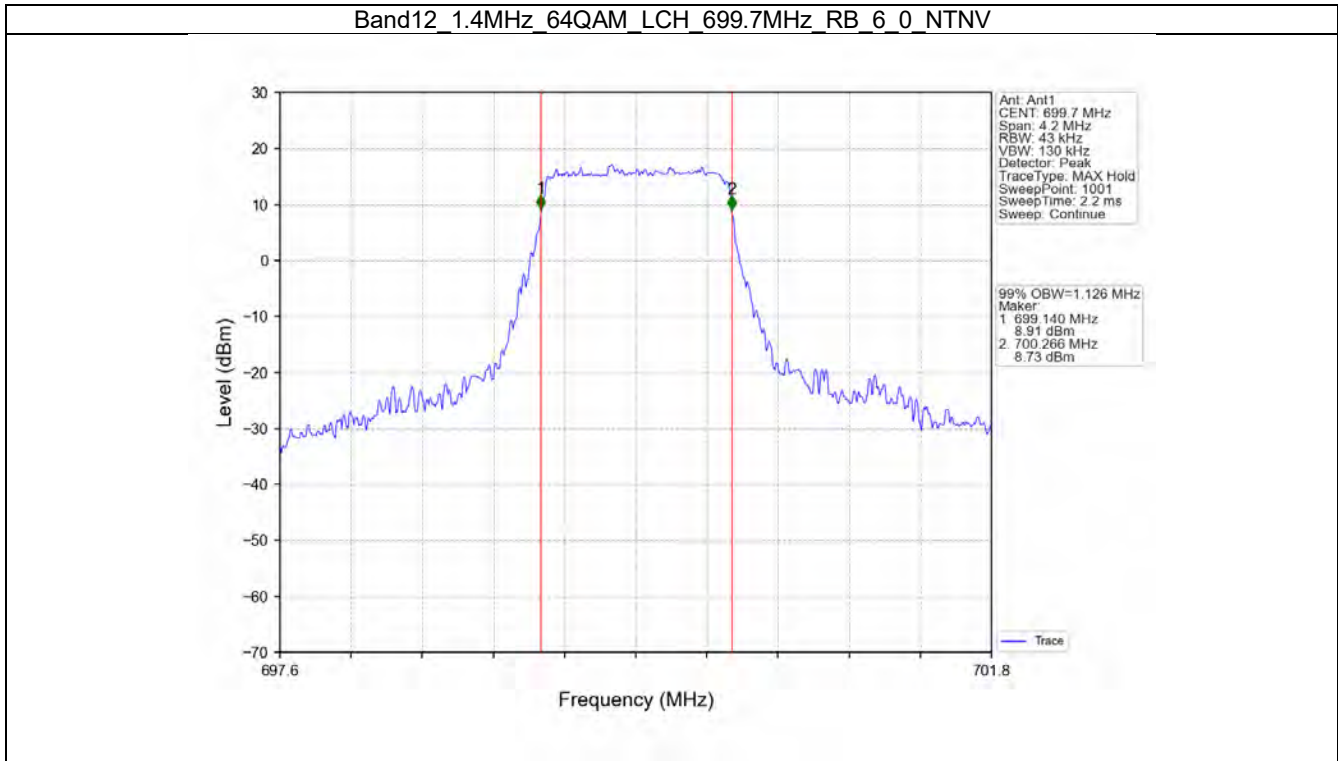


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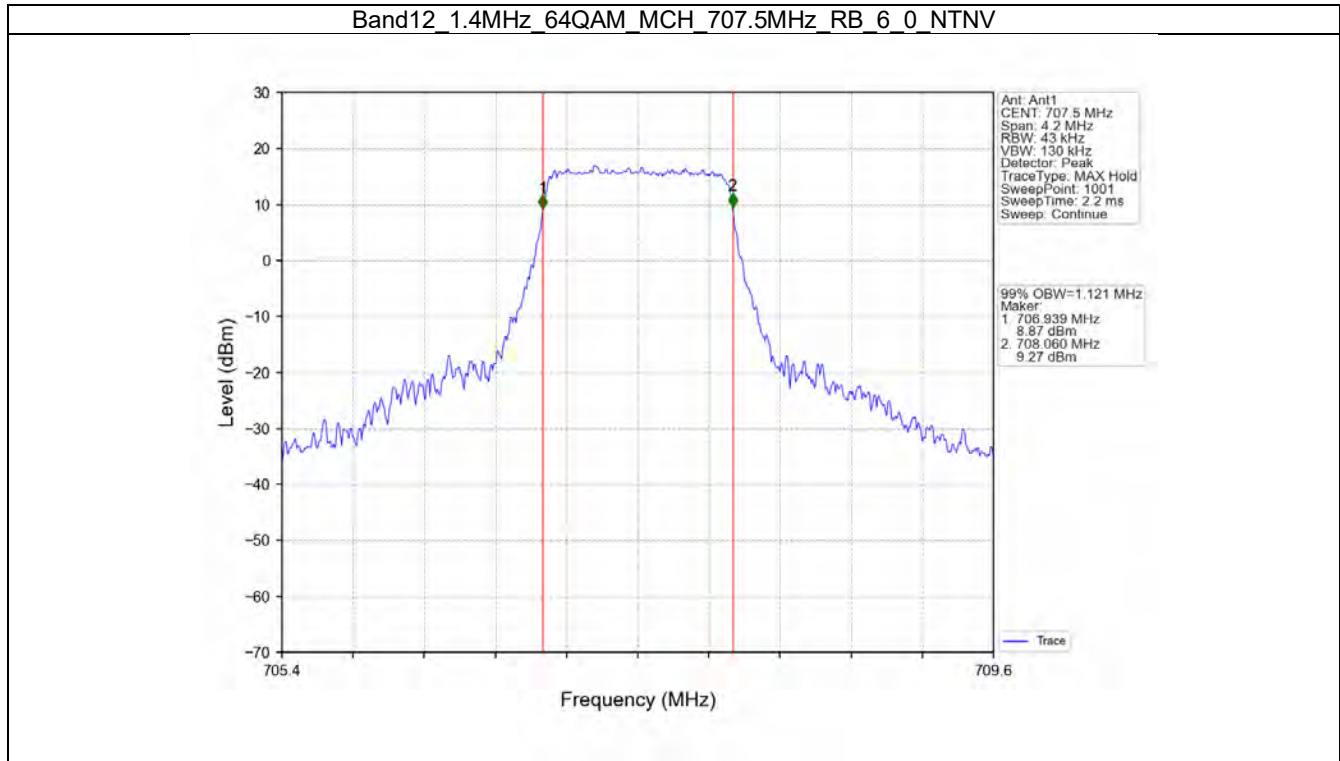


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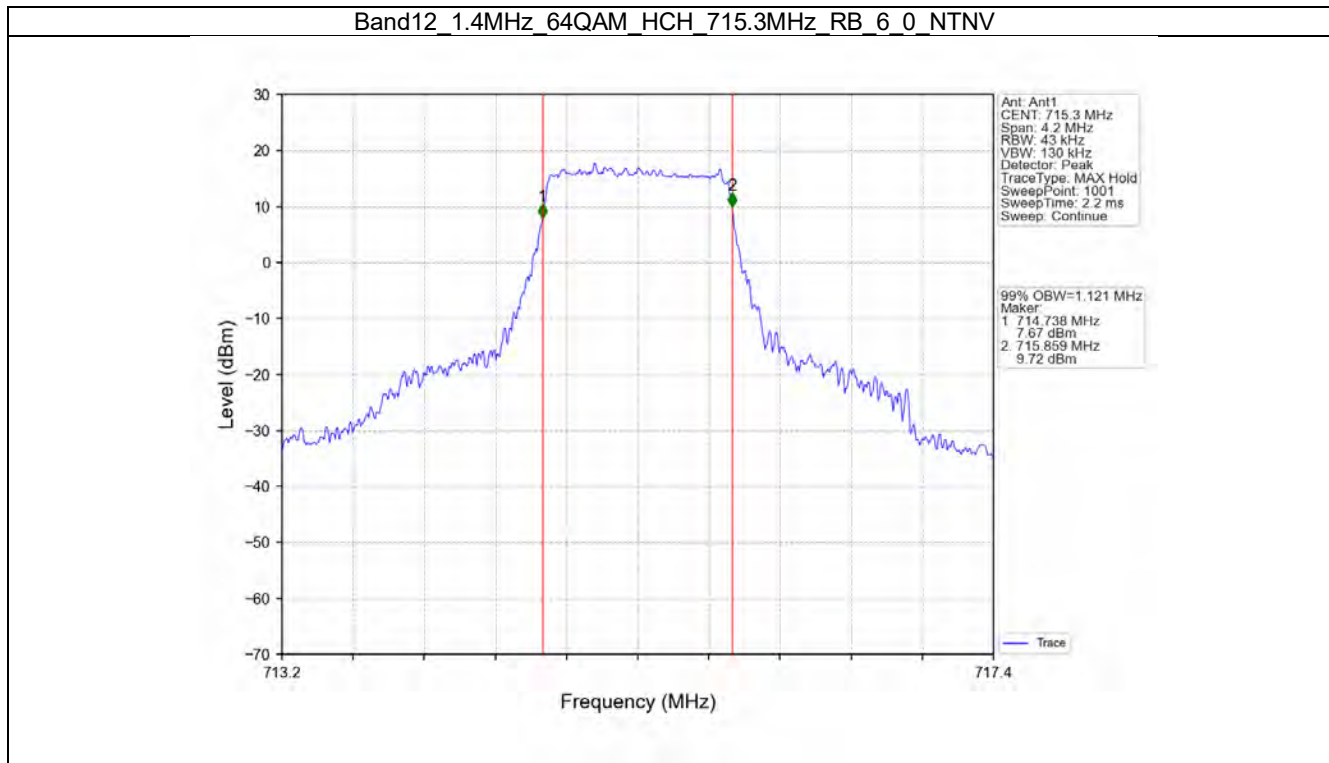
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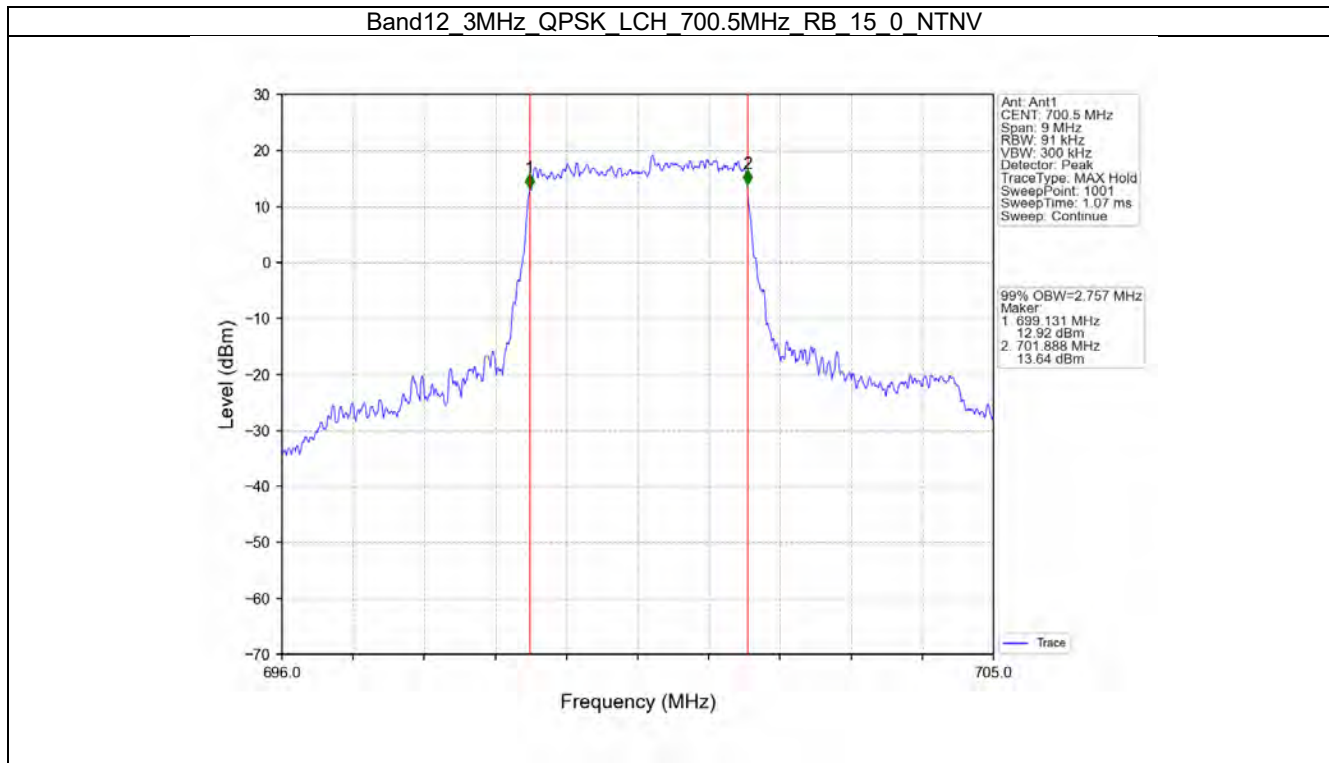
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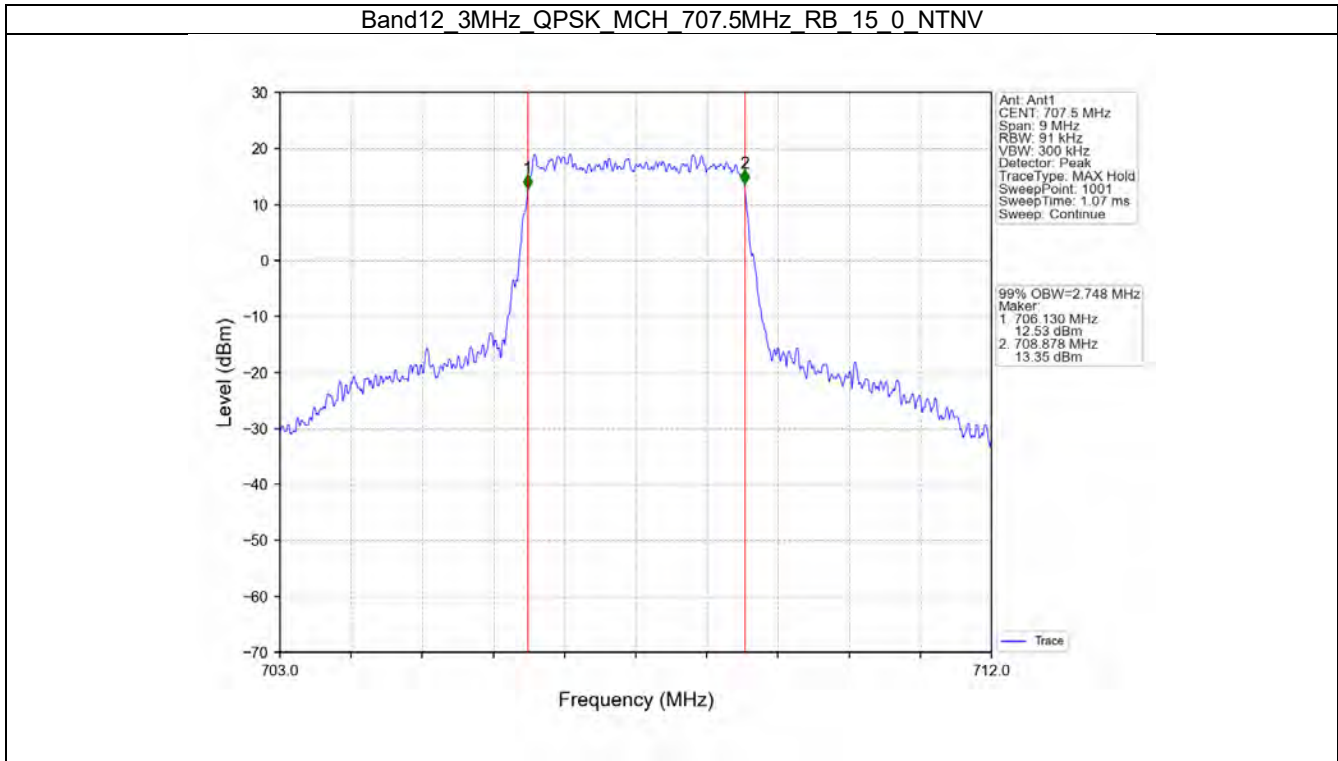


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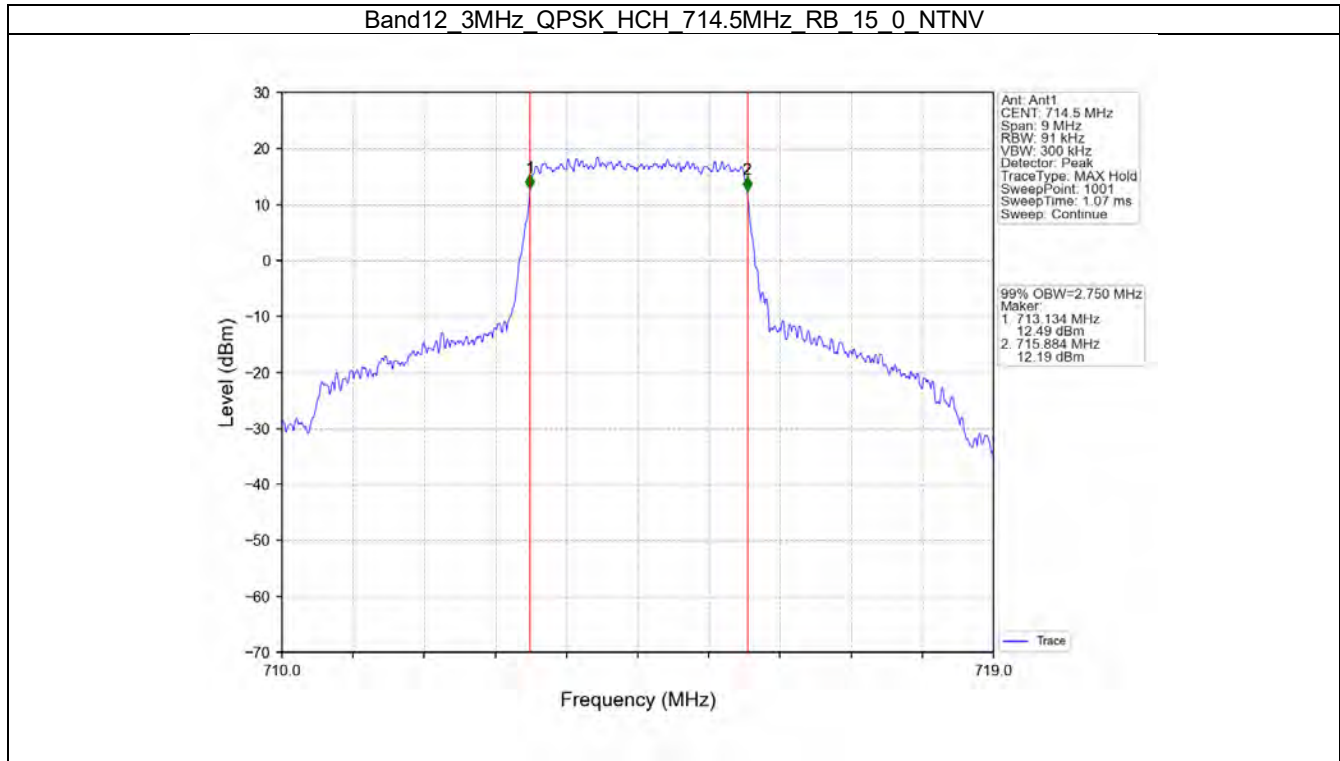


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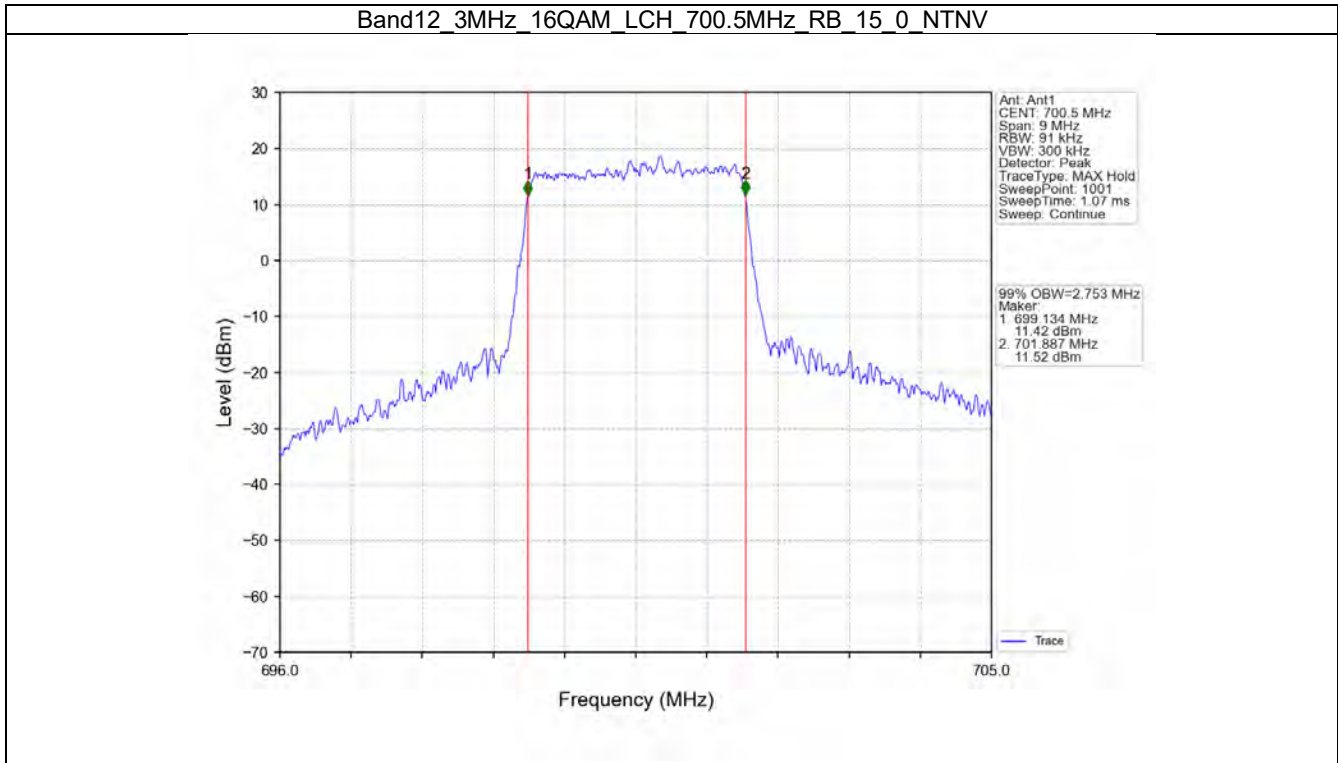


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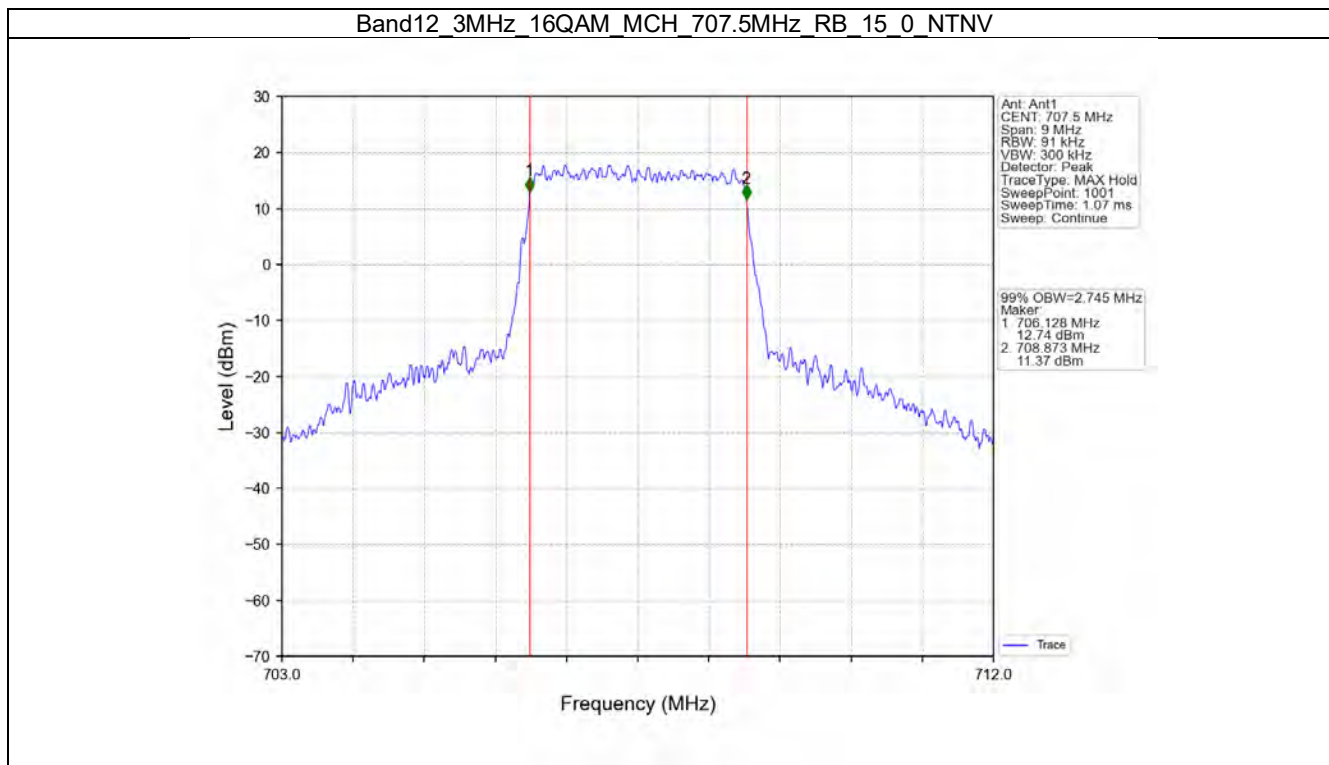
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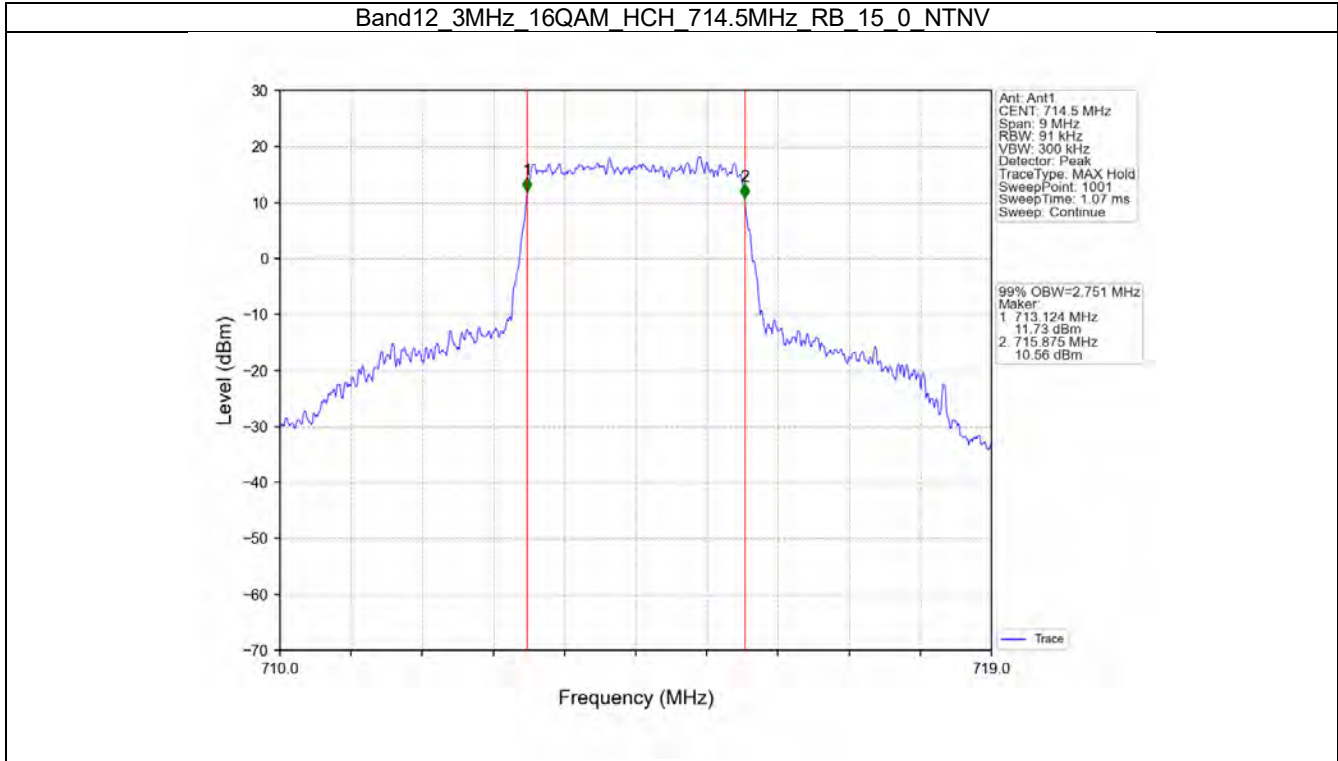


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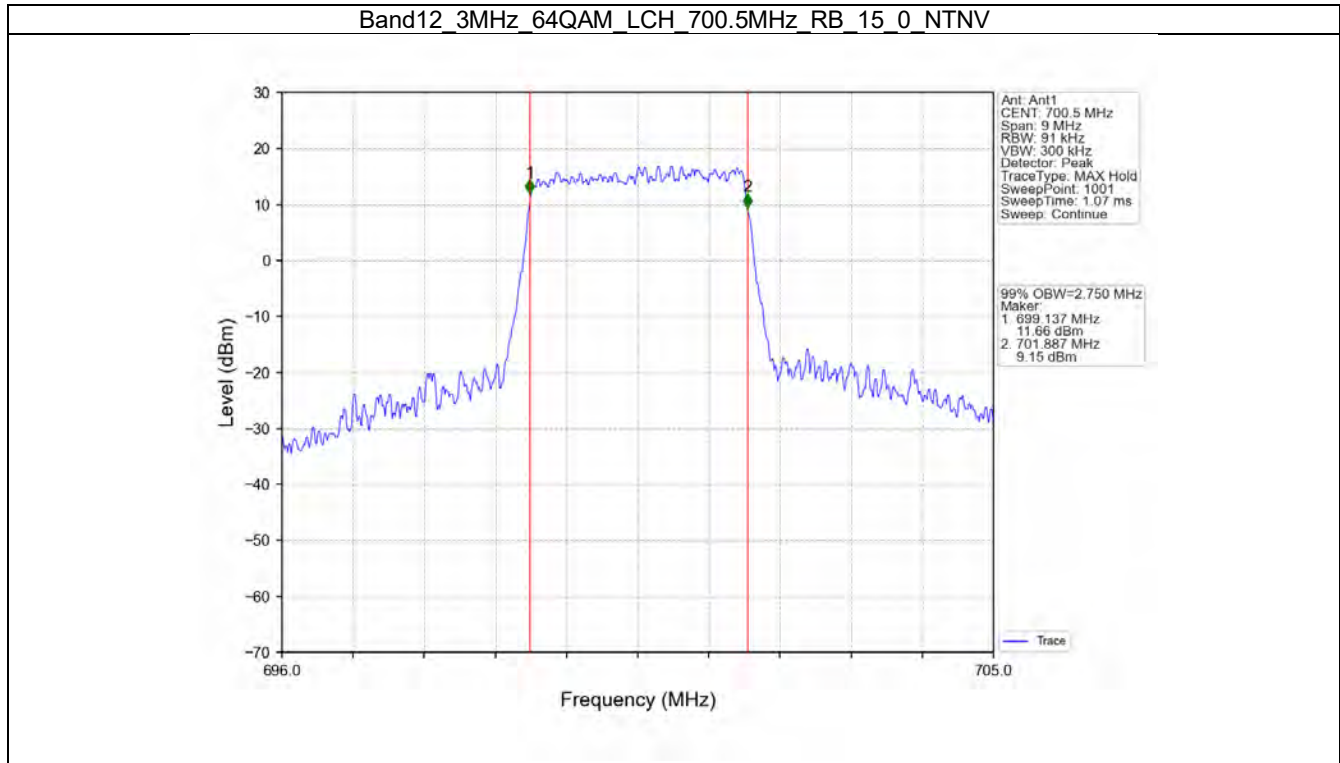


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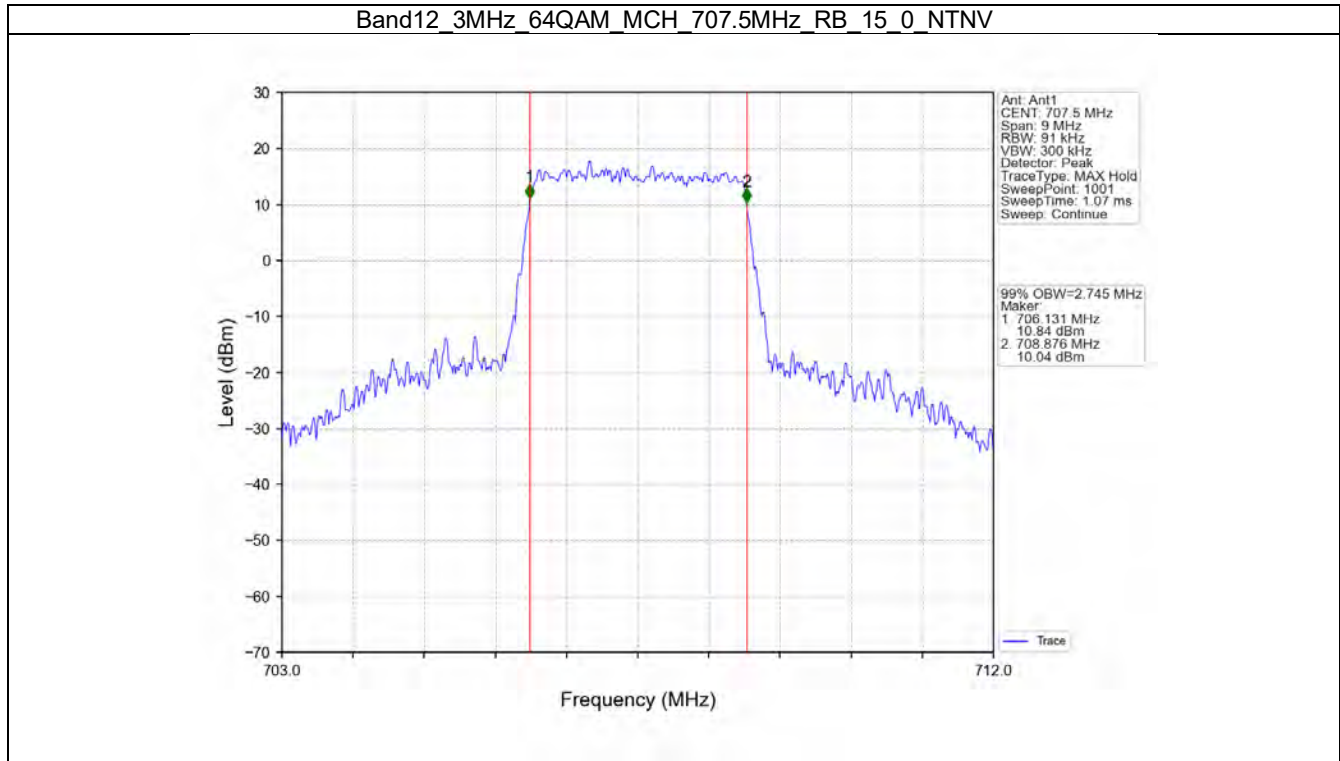


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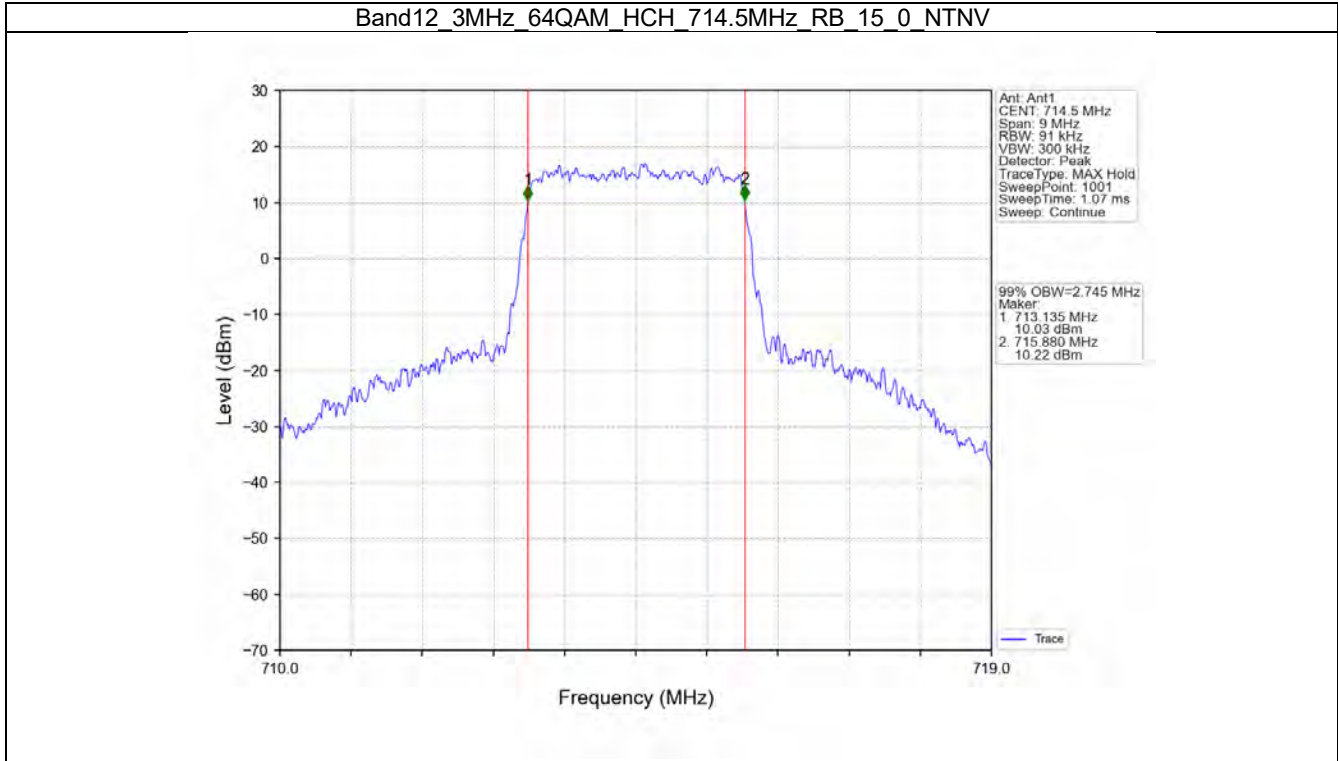


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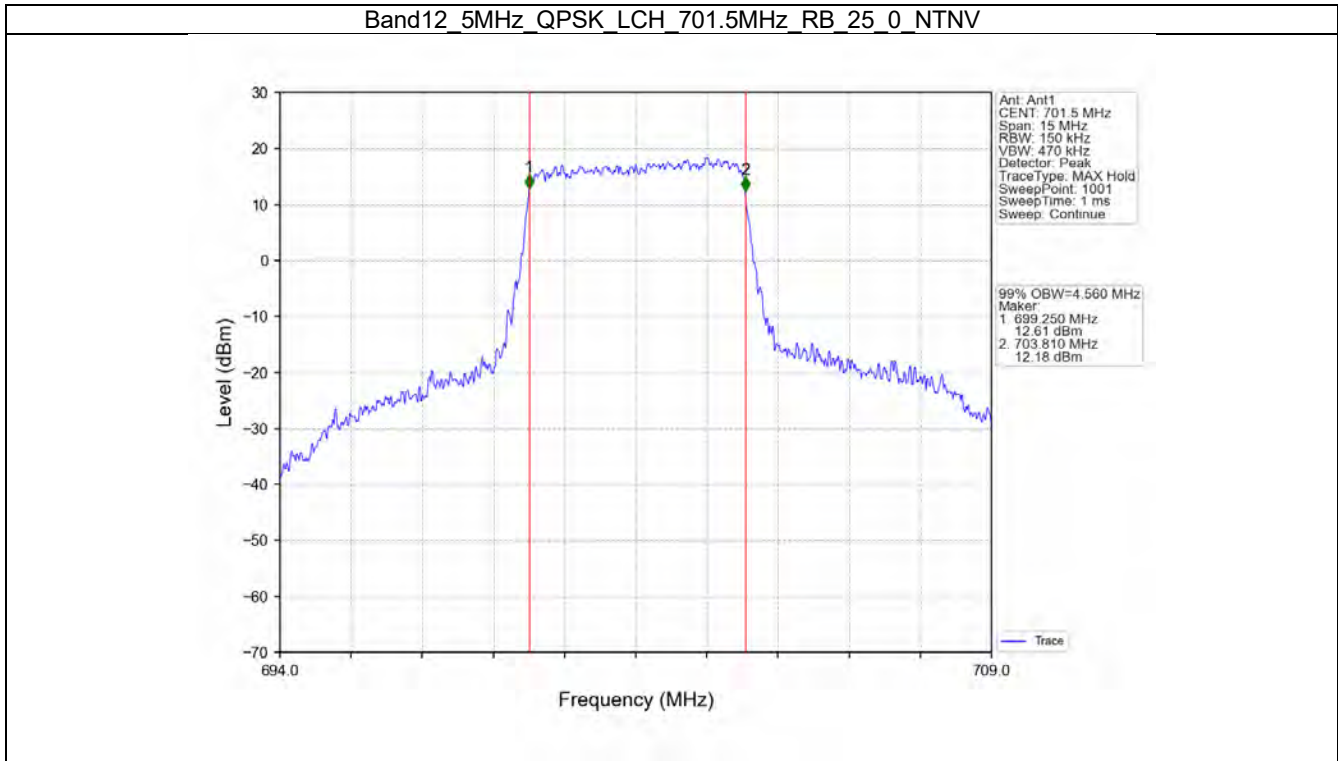


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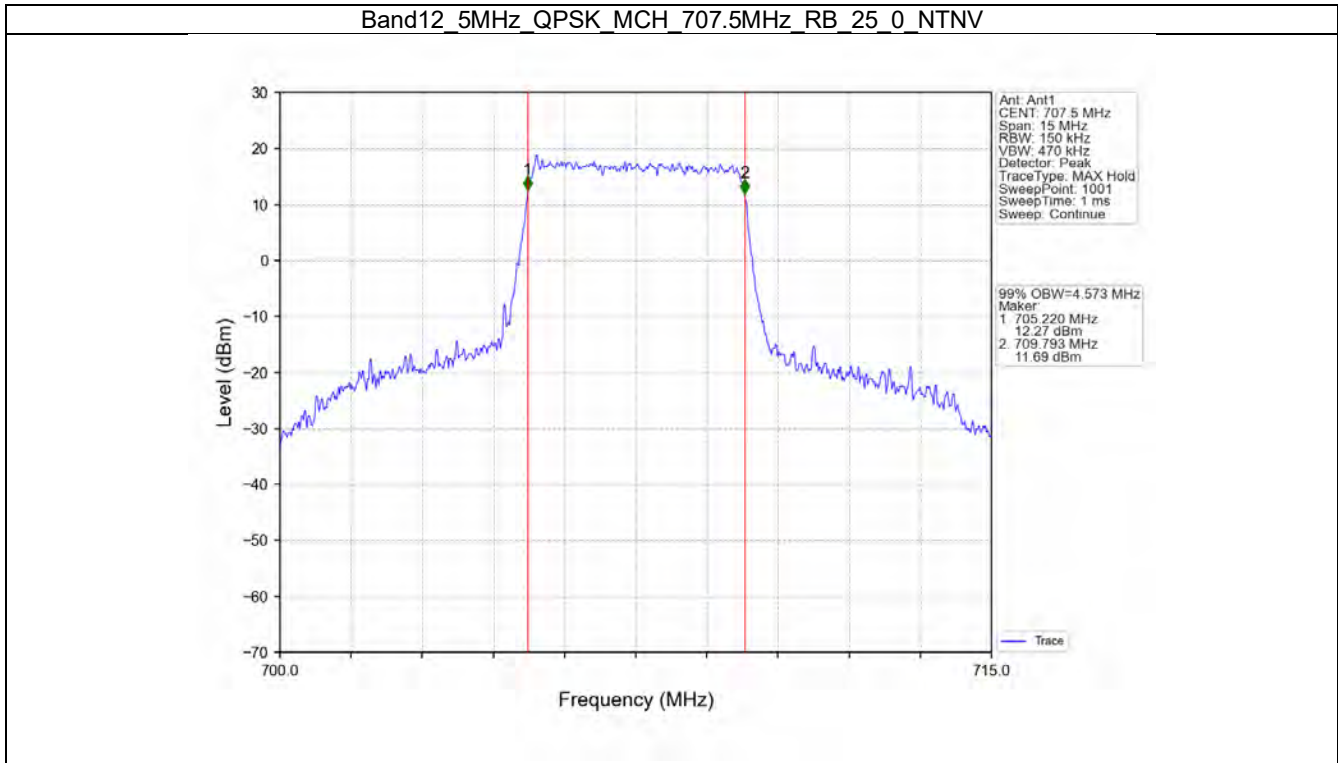


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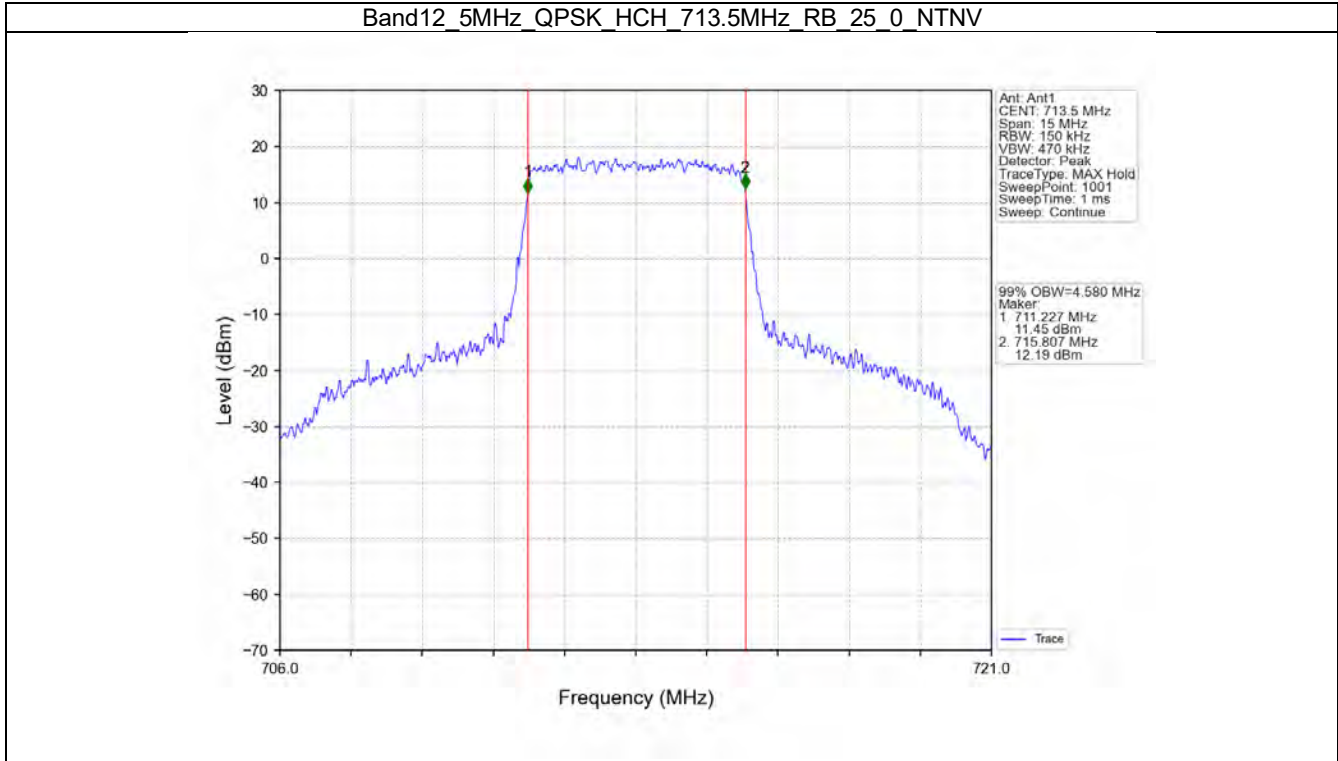


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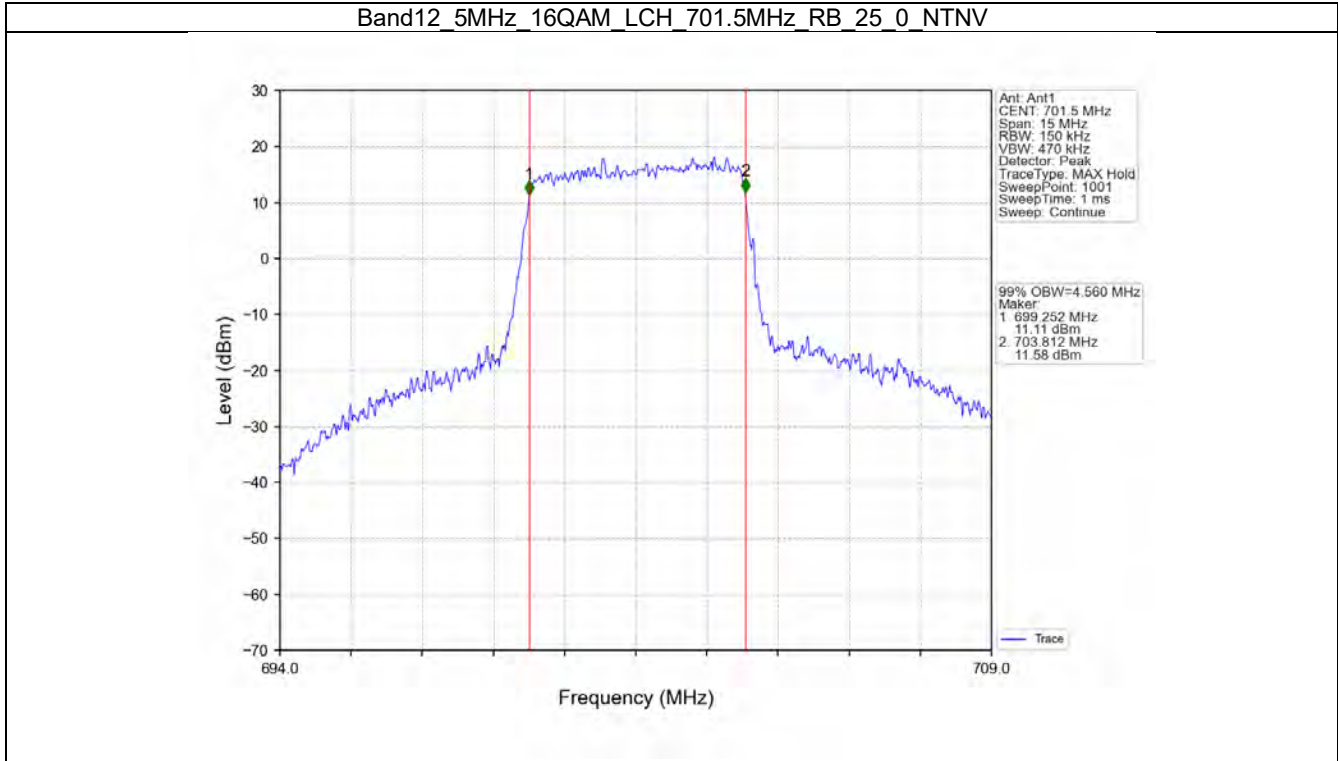


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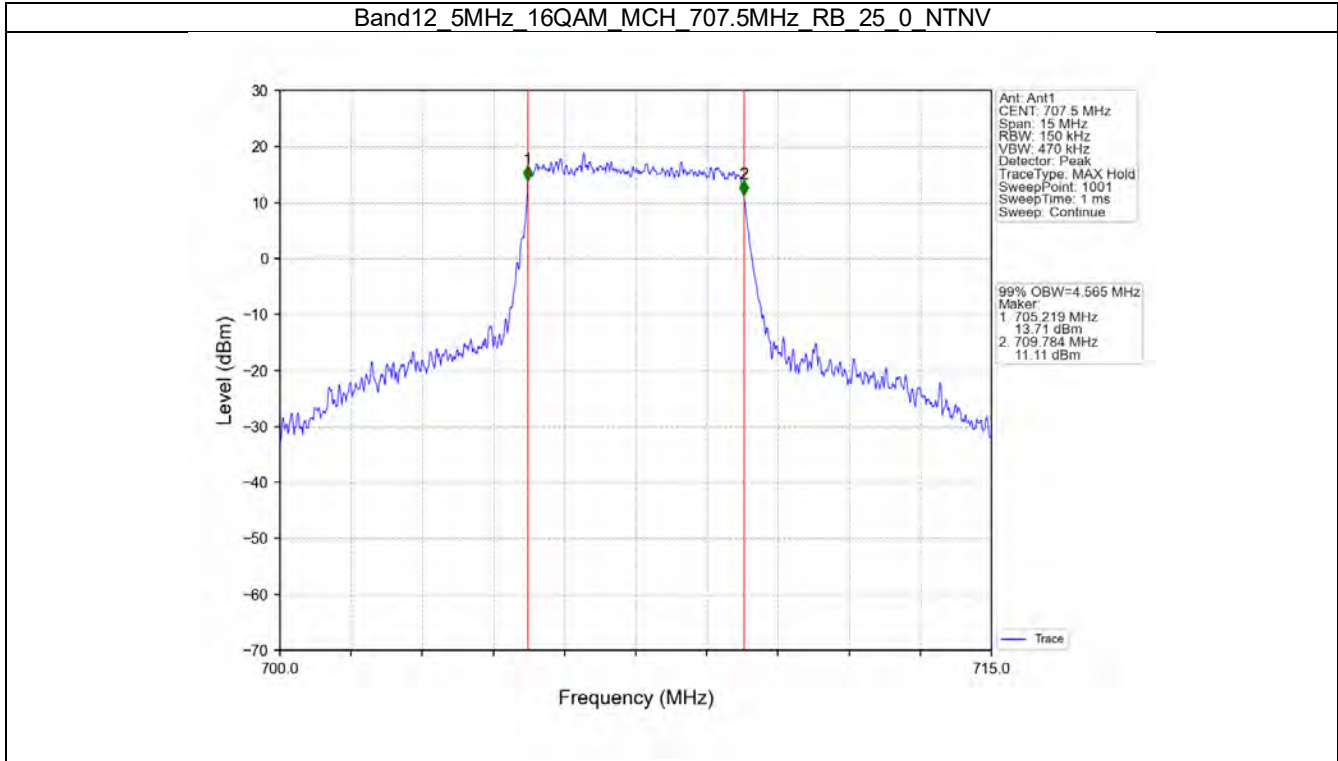


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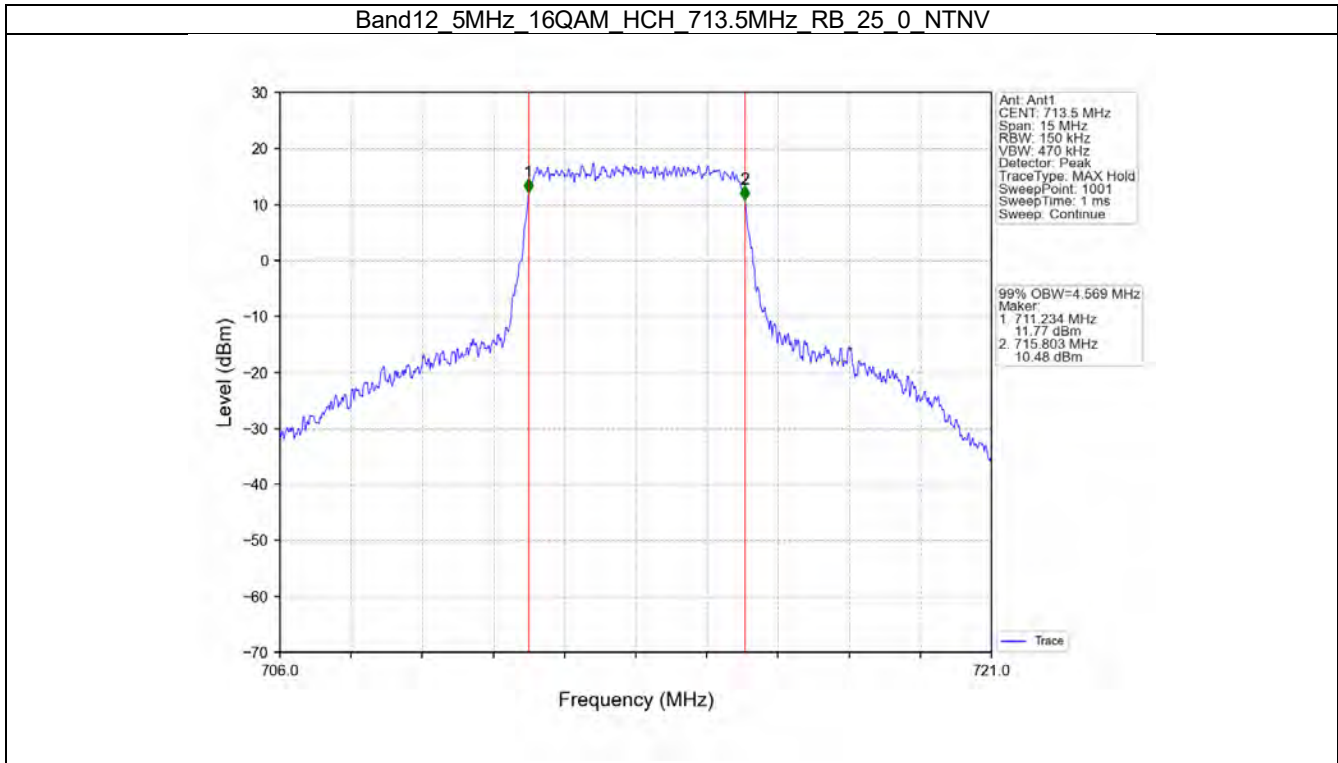


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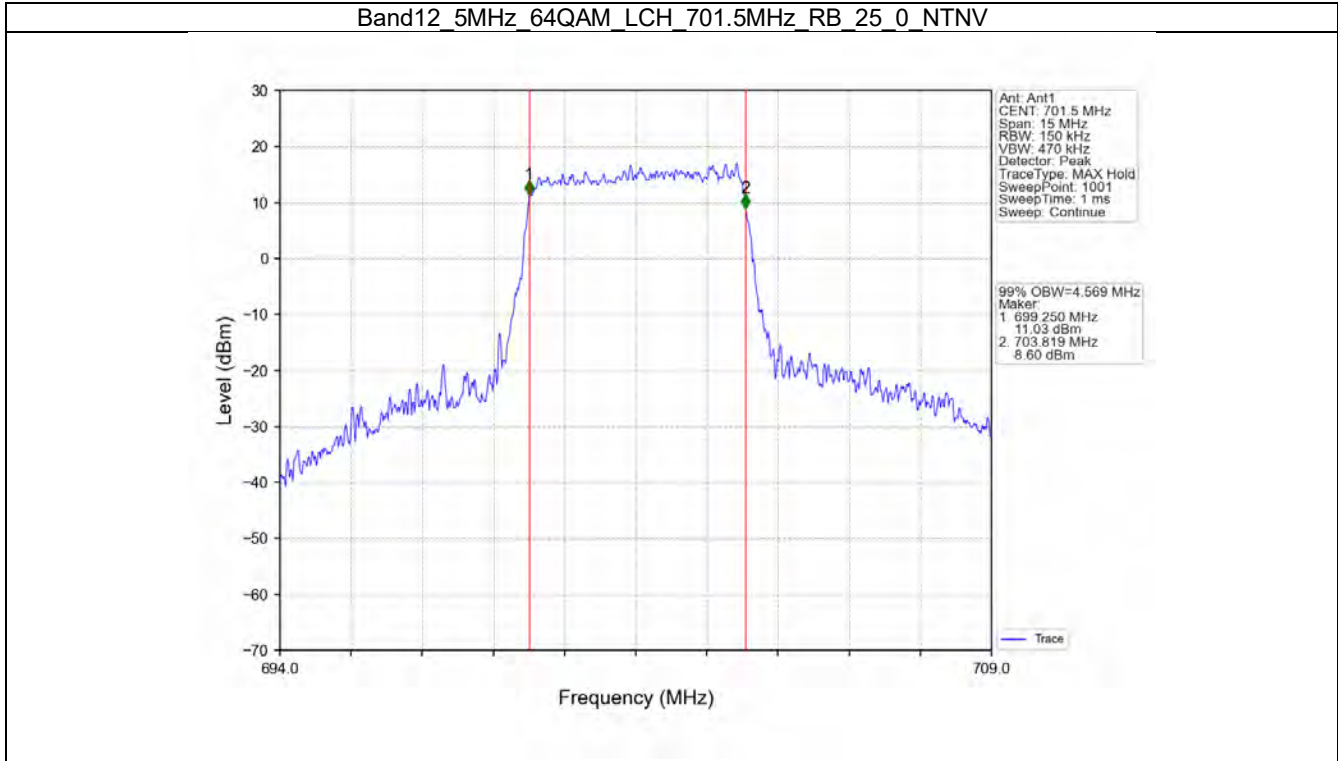


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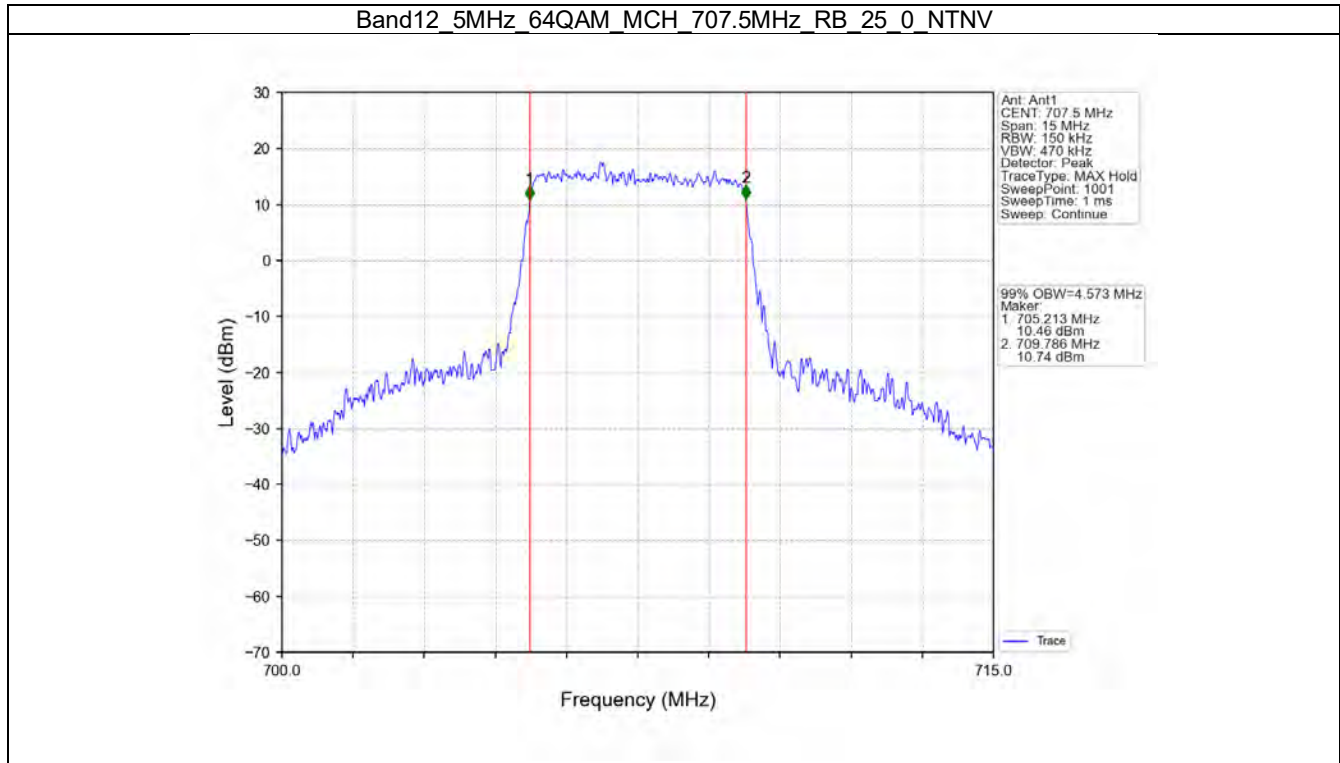


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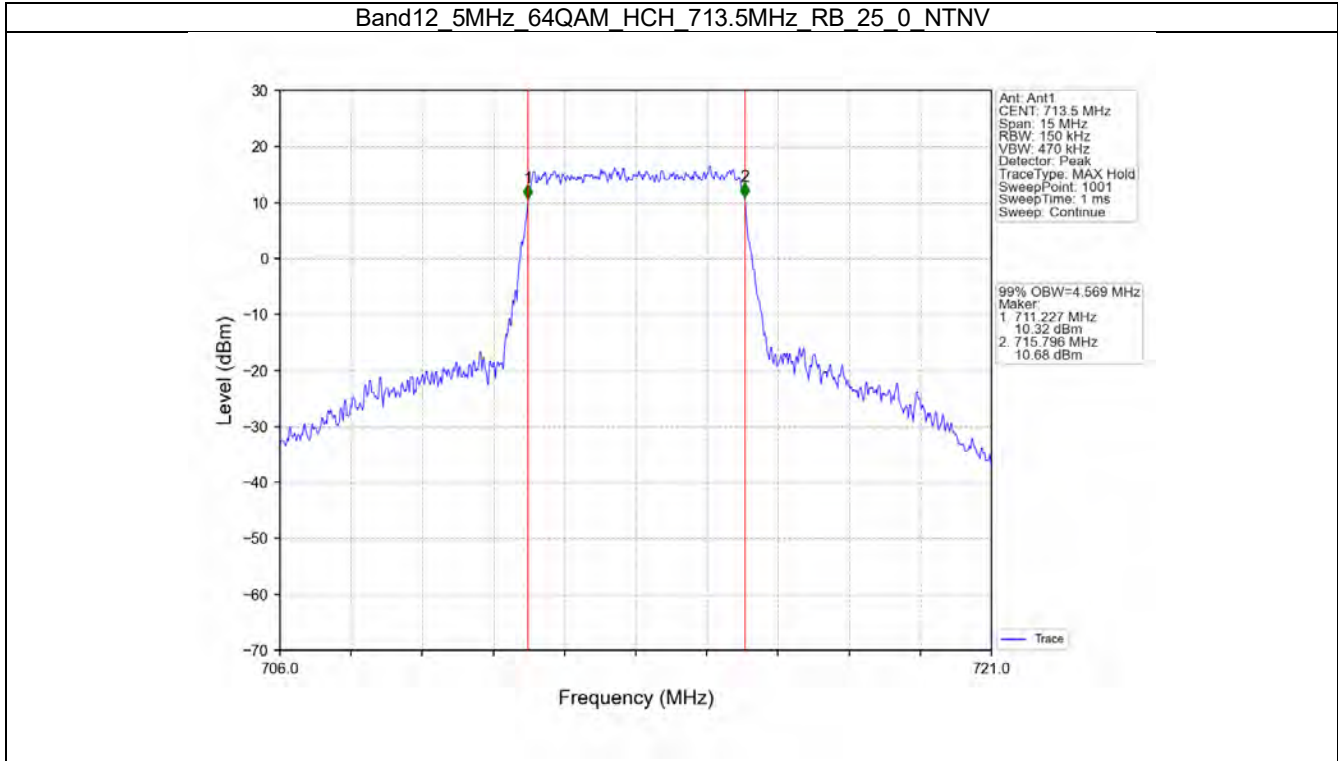


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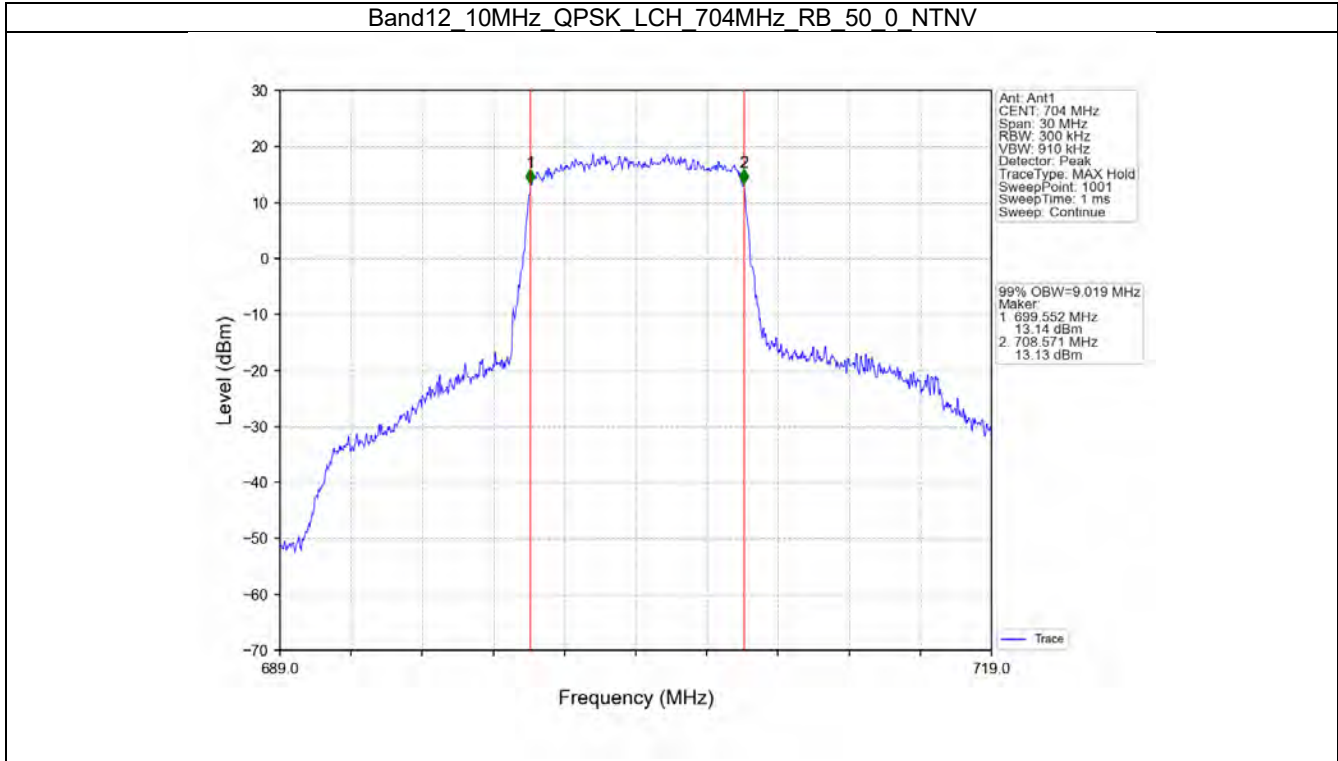


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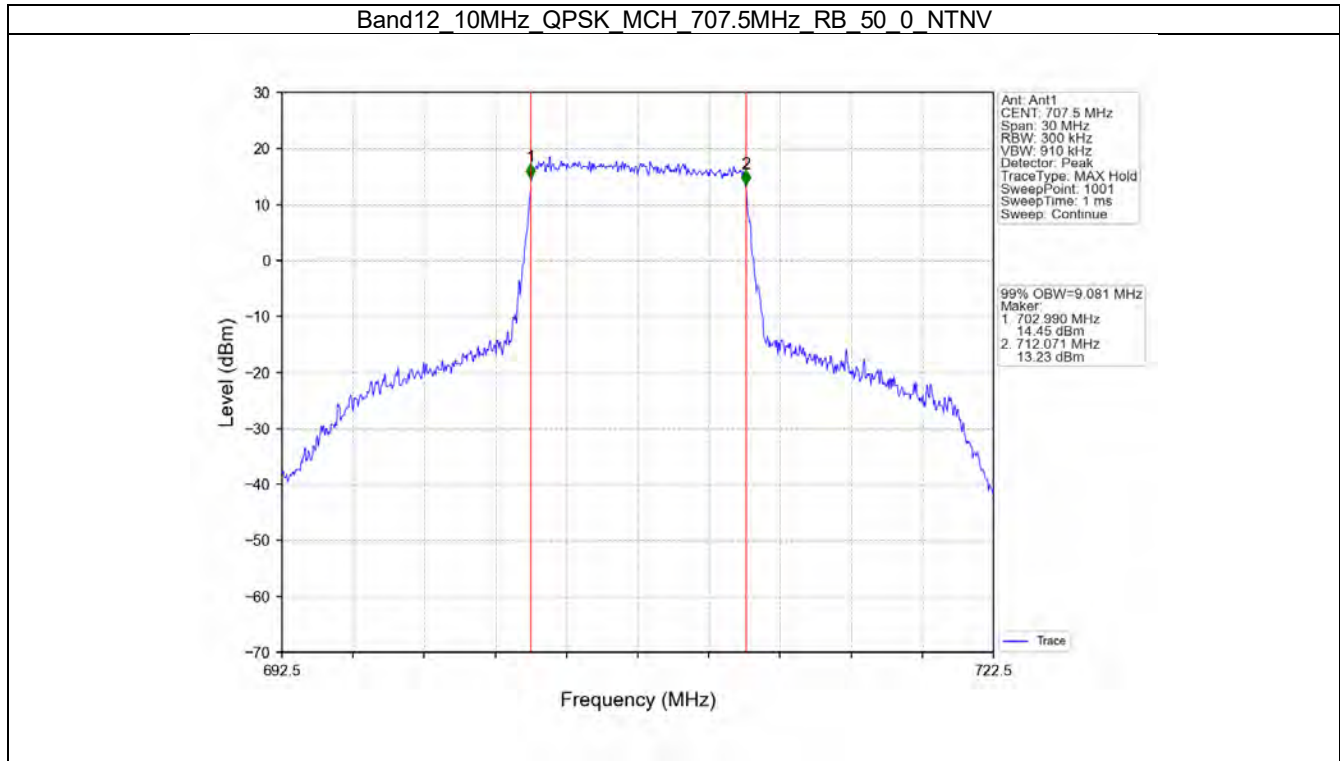


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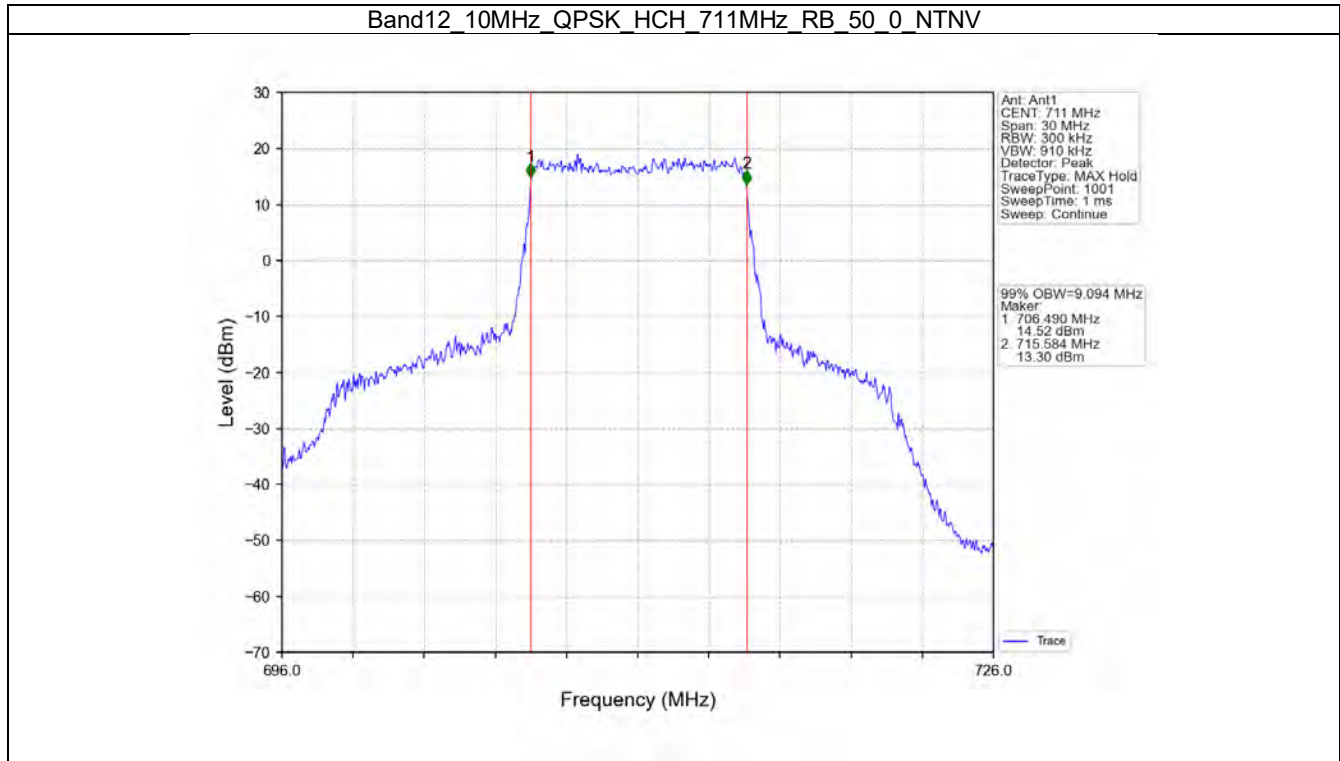


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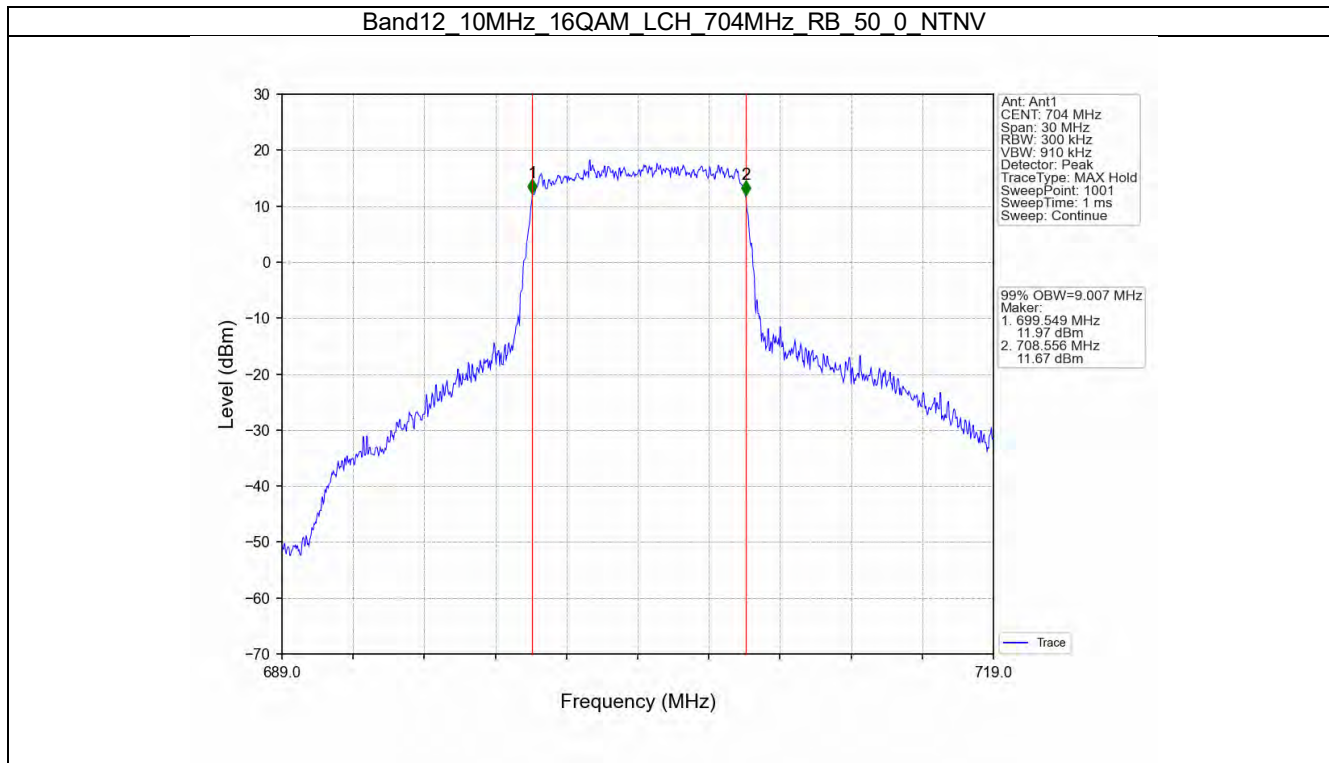
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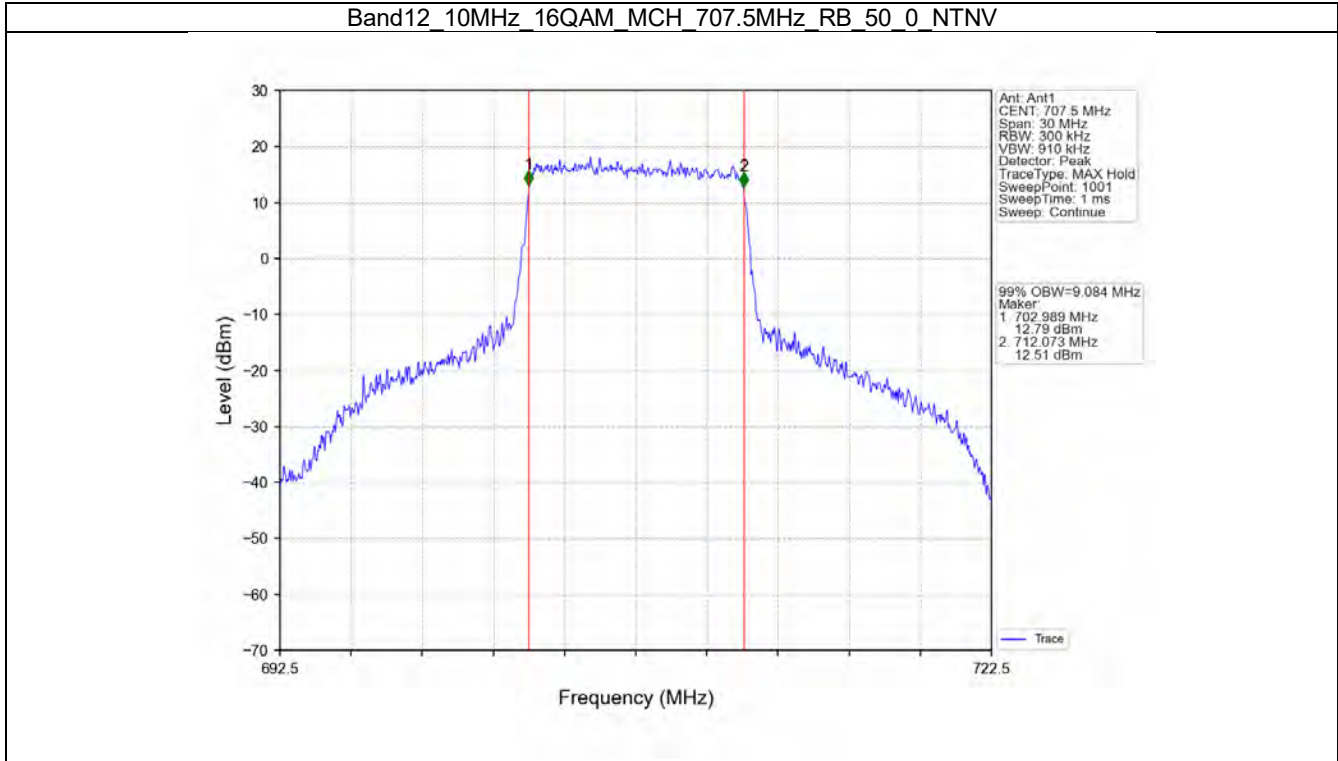


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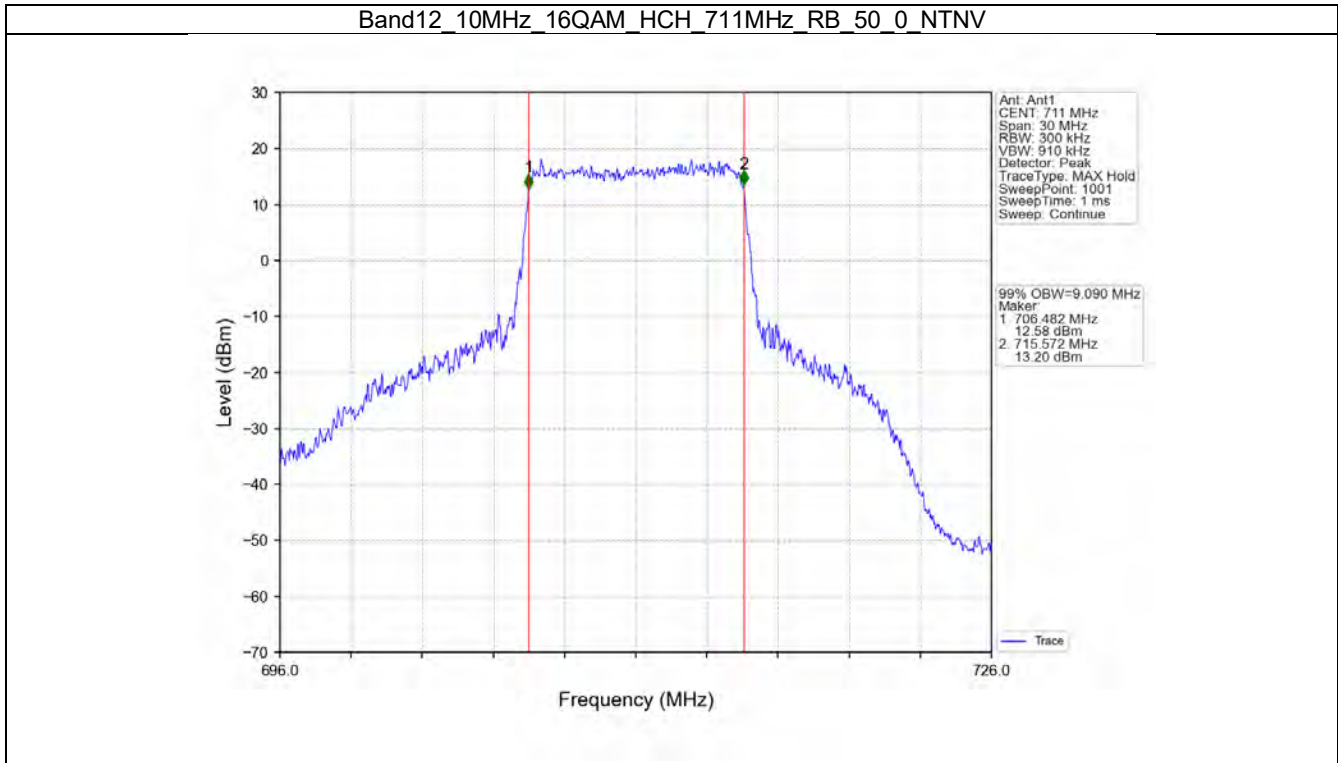


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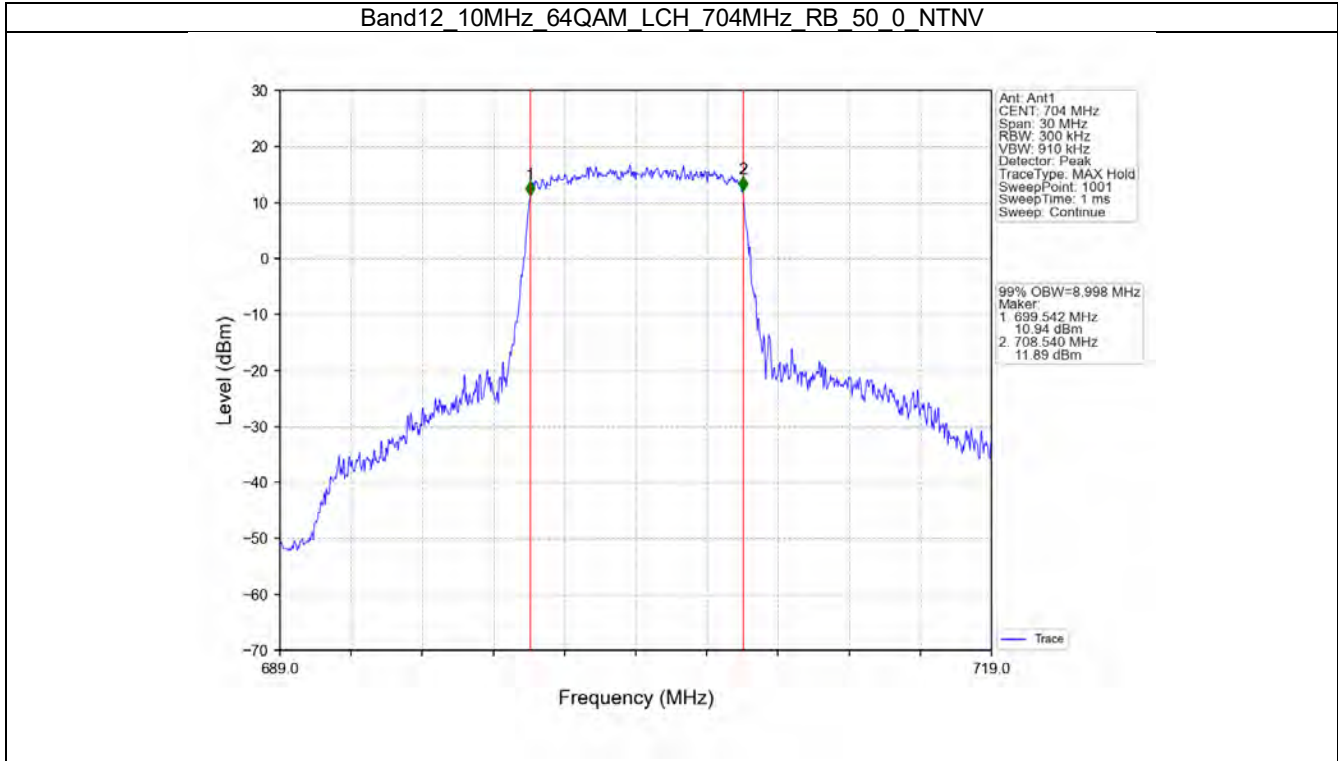


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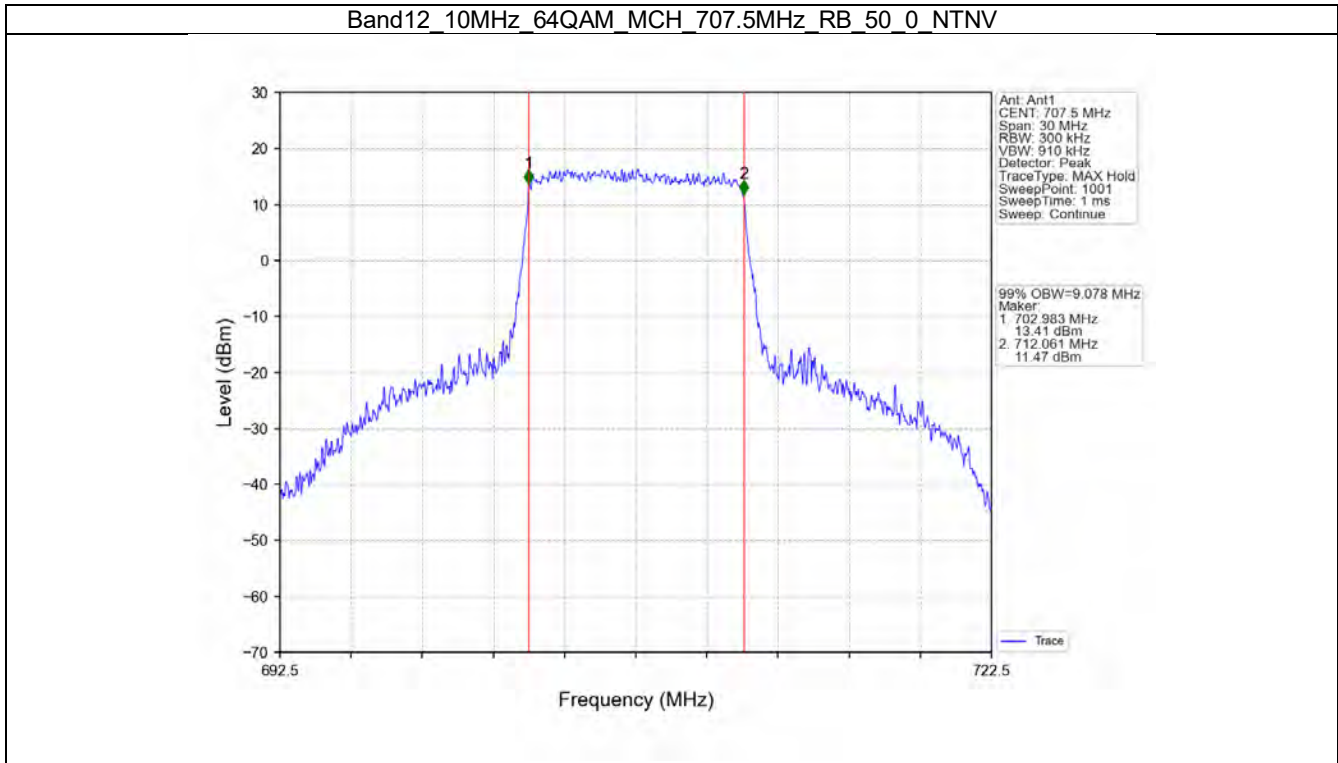


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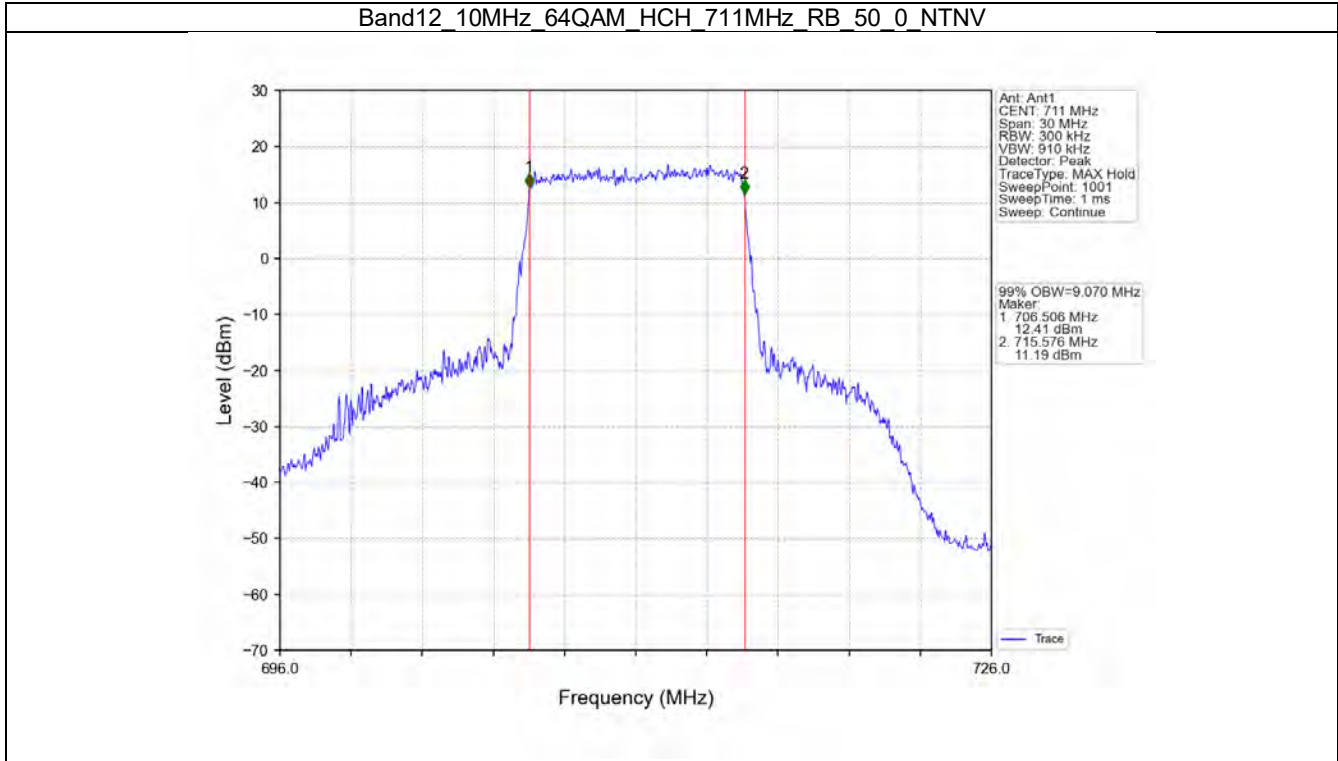


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3.2 Band12_XDB

3.2.1 Test Result

Band: 12 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.420	/	Pass
		707.5	6	0	1.427	/	Pass
		715.3	6	0	1.416	/	Pass
	16QAM	699.7	6	0	1.397	/	Pass
		707.5	6	0	1.416	/	Pass
		715.3	6	0	1.437	/	Pass
	64QAM	699.7	6	0	1.393	/	Pass
		707.5	6	0	1.416	/	Pass
		715.3	6	0	1.426	/	Pass
3	QPSK	700.5	15	0	3.153	/	Pass
		707.5	15	0	3.135	/	Pass
		714.5	15	0	3.202	/	Pass
	16QAM	700.5	15	0	3.085	/	Pass
		707.5	15	0	3.139	/	Pass
		714.5	15	0	3.121	/	Pass
	64QAM	700.5	15	0	3.126	/	Pass
		707.5	15	0	3.089	/	Pass
		714.5	15	0	3.177	/	Pass
5	QPSK	701.5	25	0	5.261	/	Pass
		707.5	25	0	5.191	/	Pass
		713.5	25	0	5.226	/	Pass
	16QAM	701.5	25	0	5.175	/	Pass
		707.5	25	0	5.173	/	Pass
		713.5	25	0	5.348	/	Pass
	64QAM	701.5	25	0	5.157	/	Pass
		707.5	25	0	5.296	/	Pass
		713.5	25	0	5.264	/	Pass
10	QPSK	704	50	0	10.089	/	Pass
		707.5	50	0	10.253	/	Pass
		711	50	0	10.305	/	Pass
	16QAM	704	50	0	10.021	/	Pass
		707.5	50	0	10.146	/	Pass
		711	50	0	10.195	/	Pass
	64QAM	704	50	0	10.035	/	Pass
		707.5	50	0	10.159	/	Pass
		711	50	0	10.169	/	Pass



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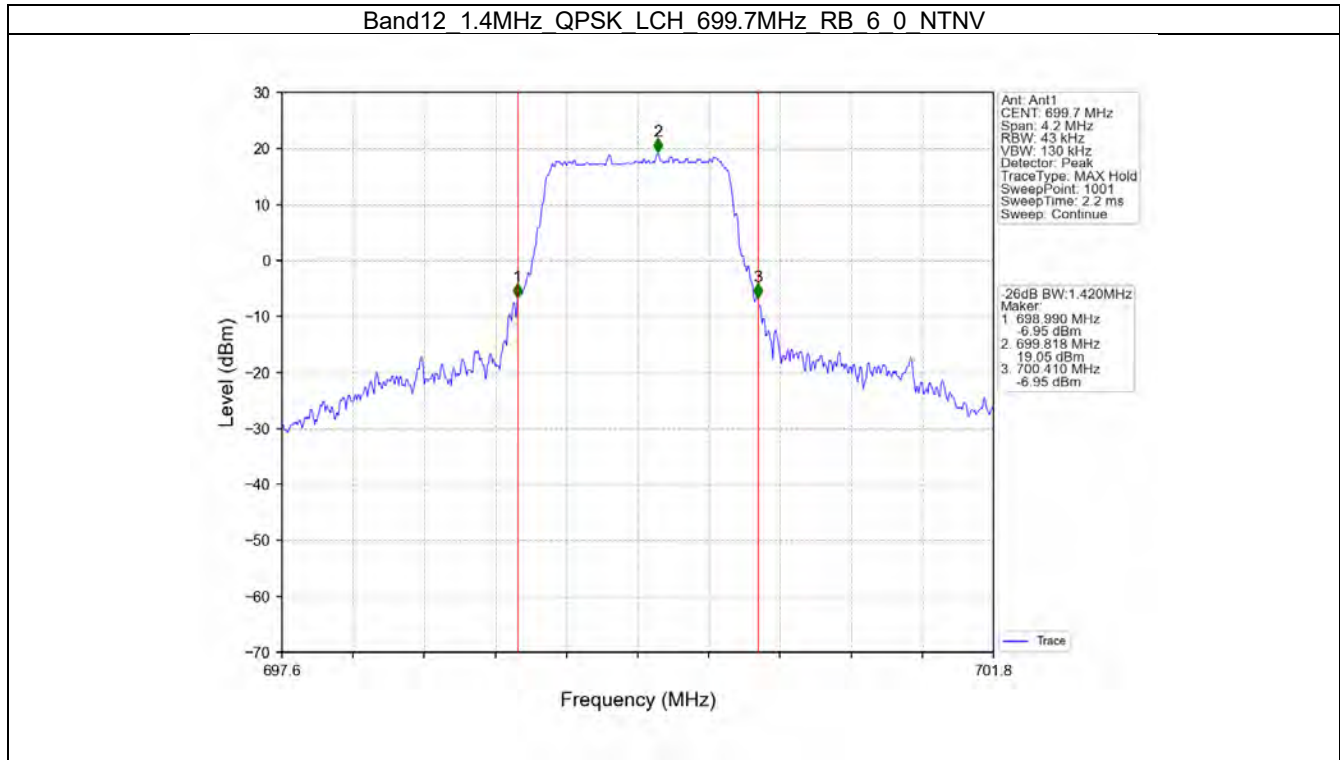
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3.2.2 Test Graph



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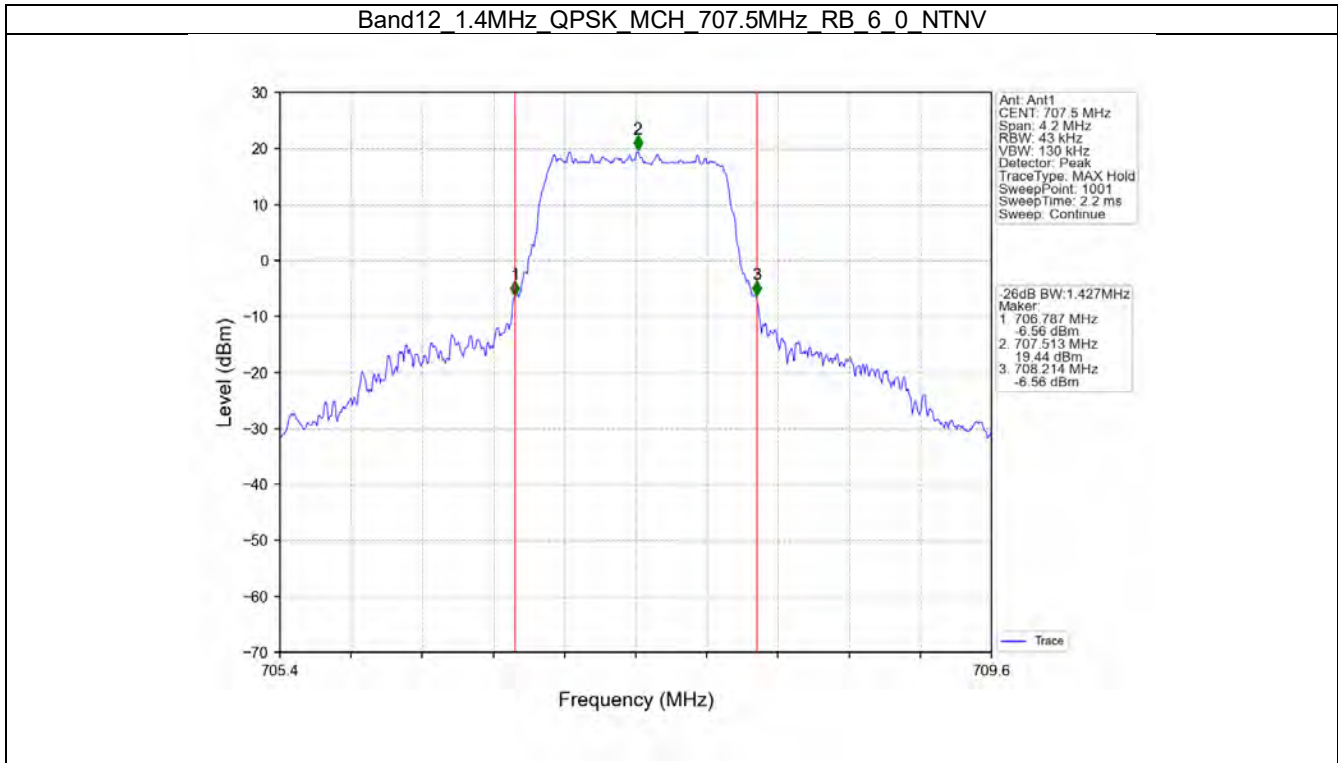


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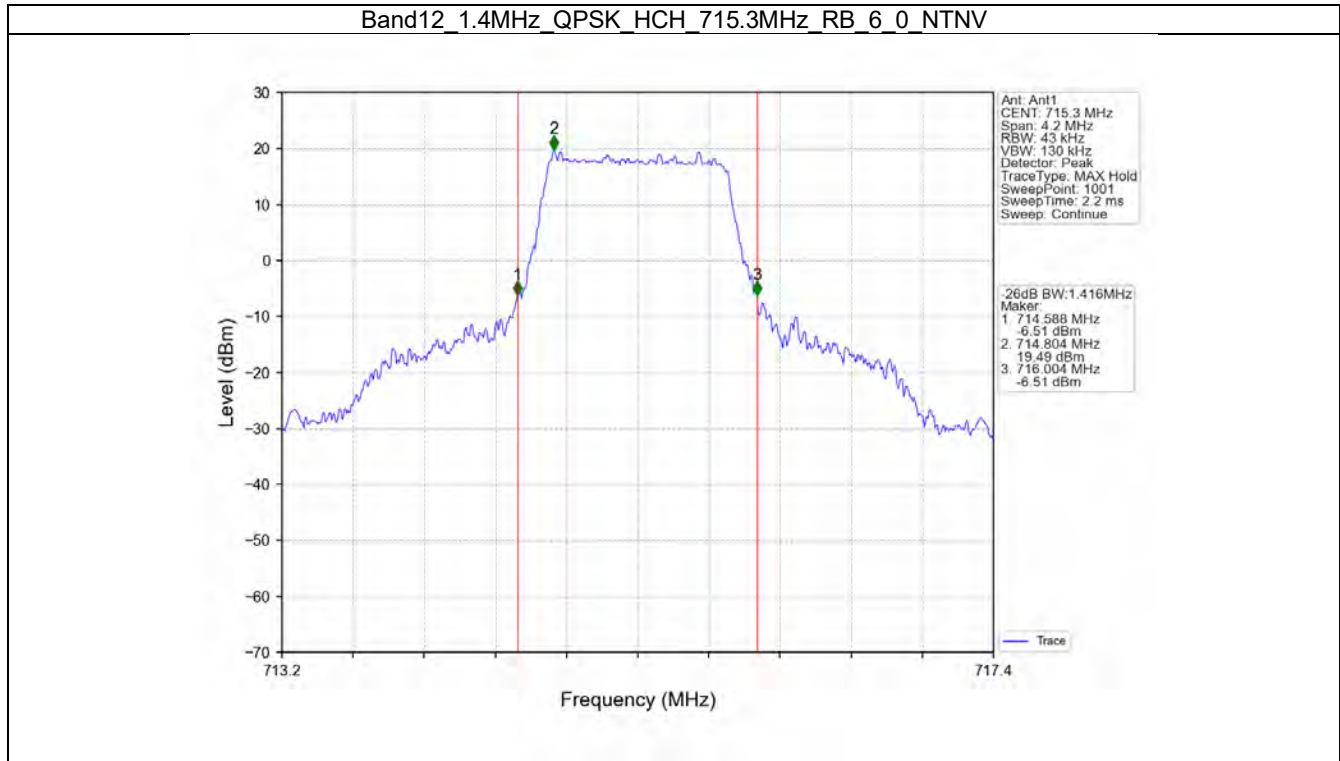


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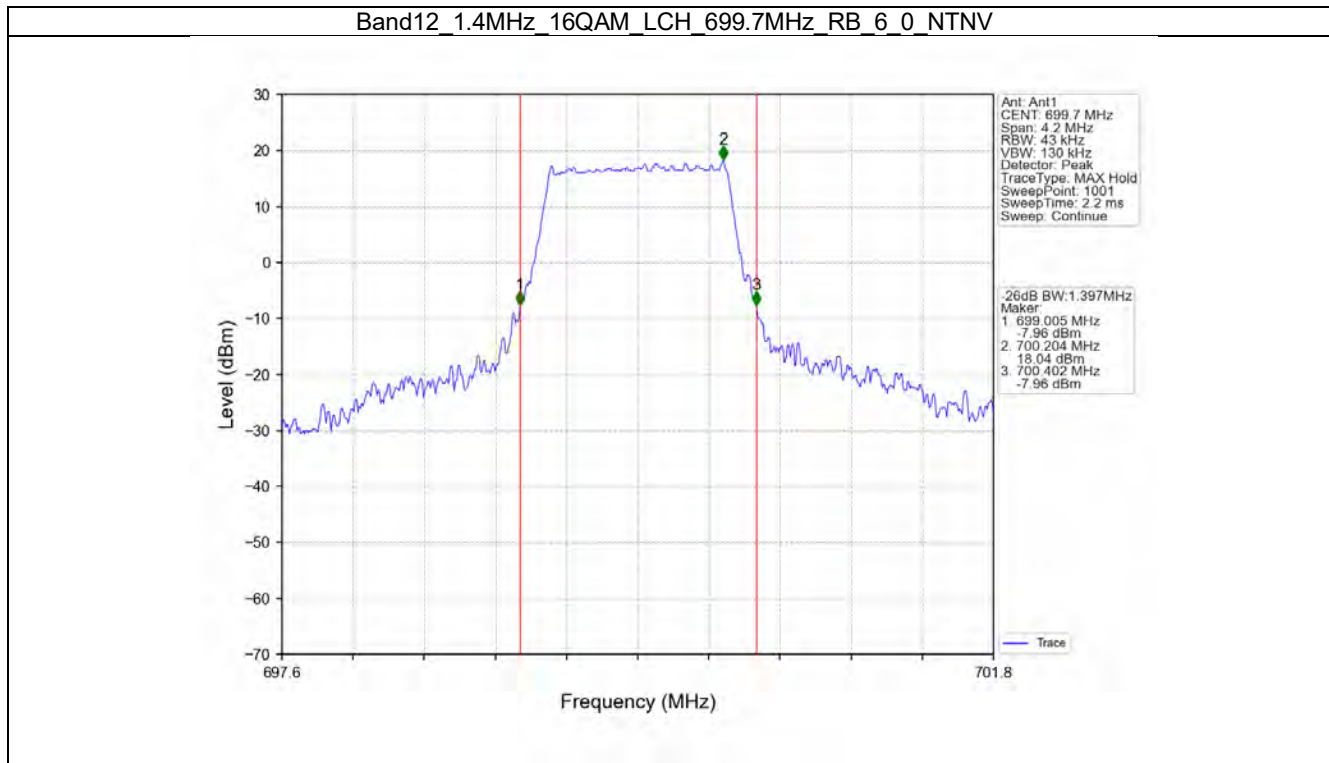
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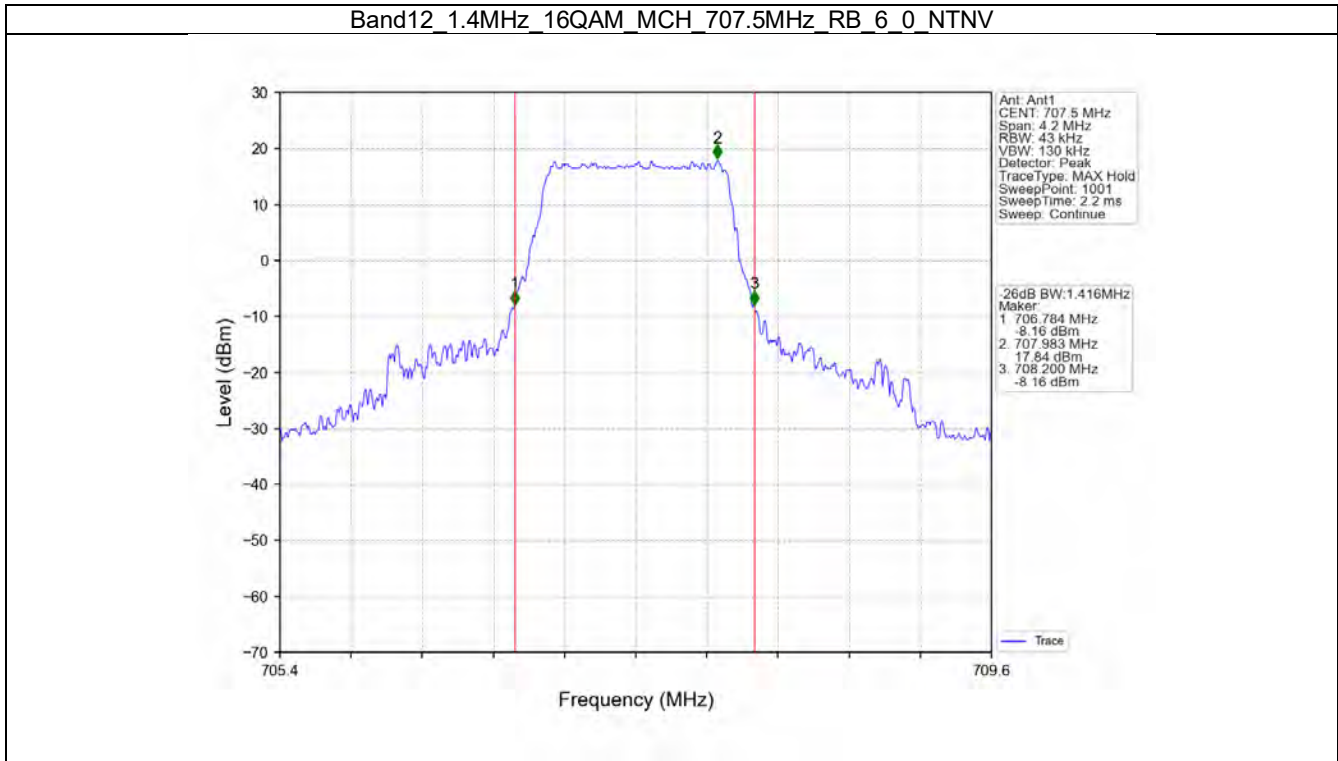


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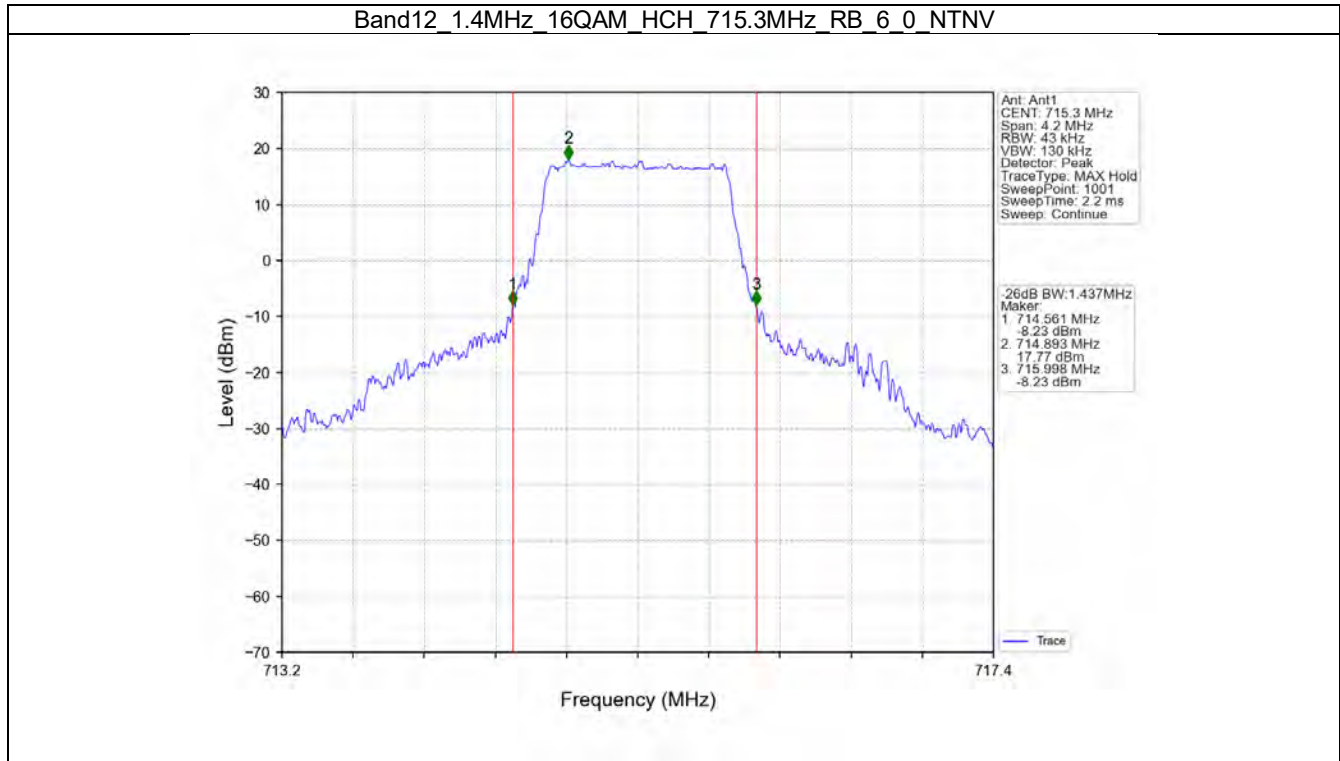


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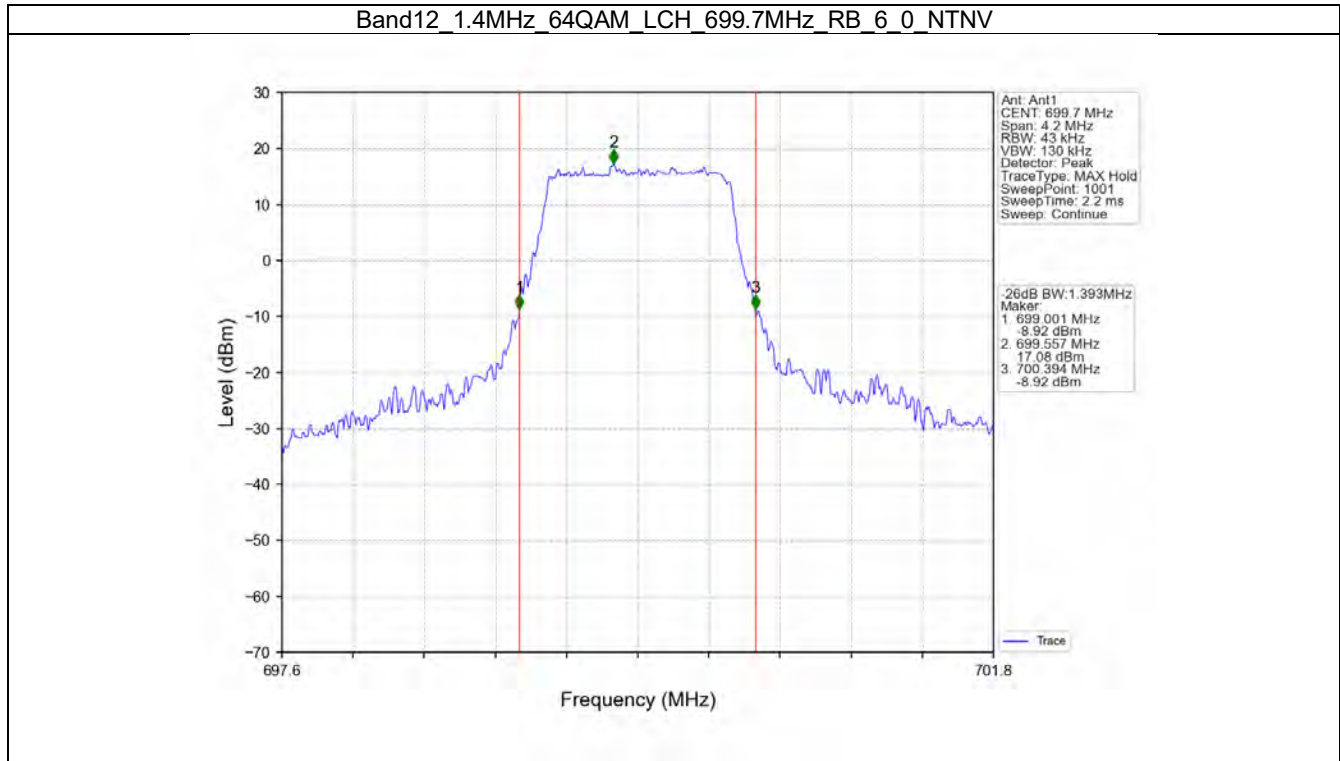


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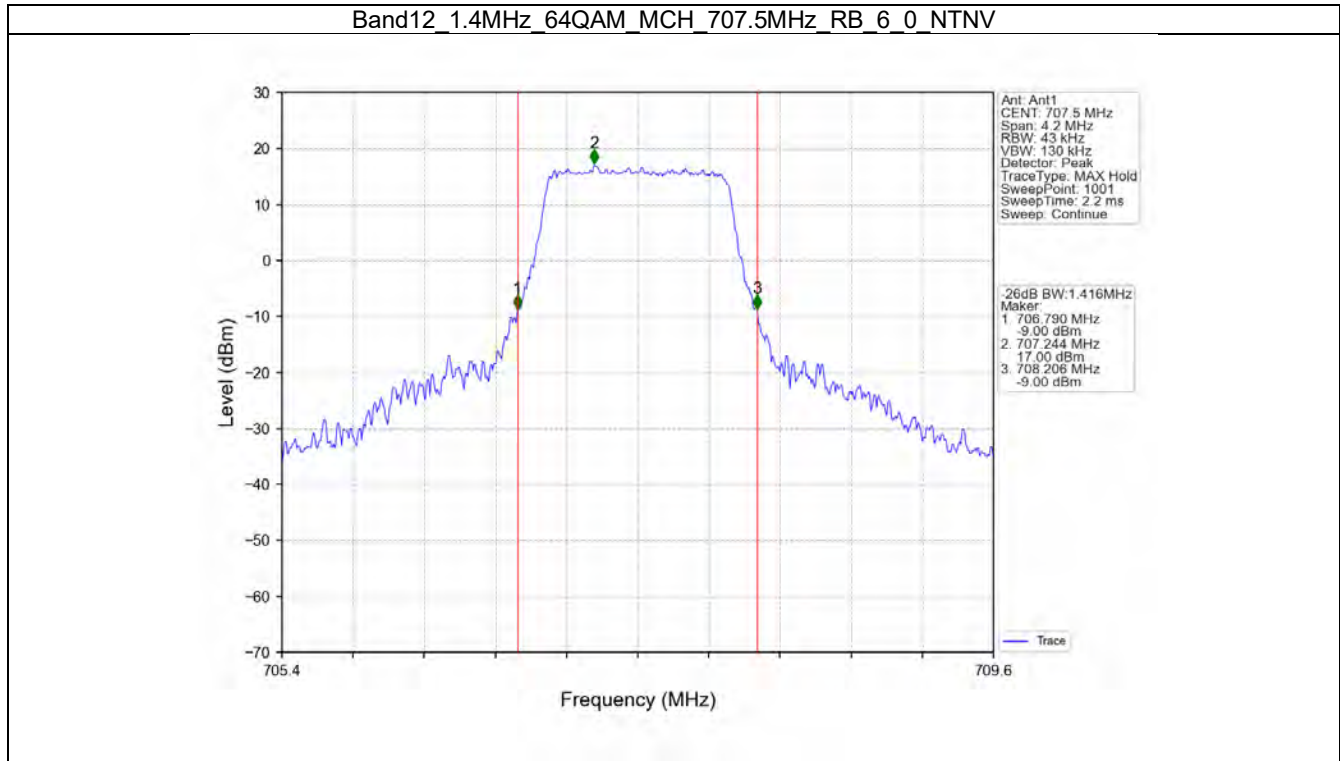


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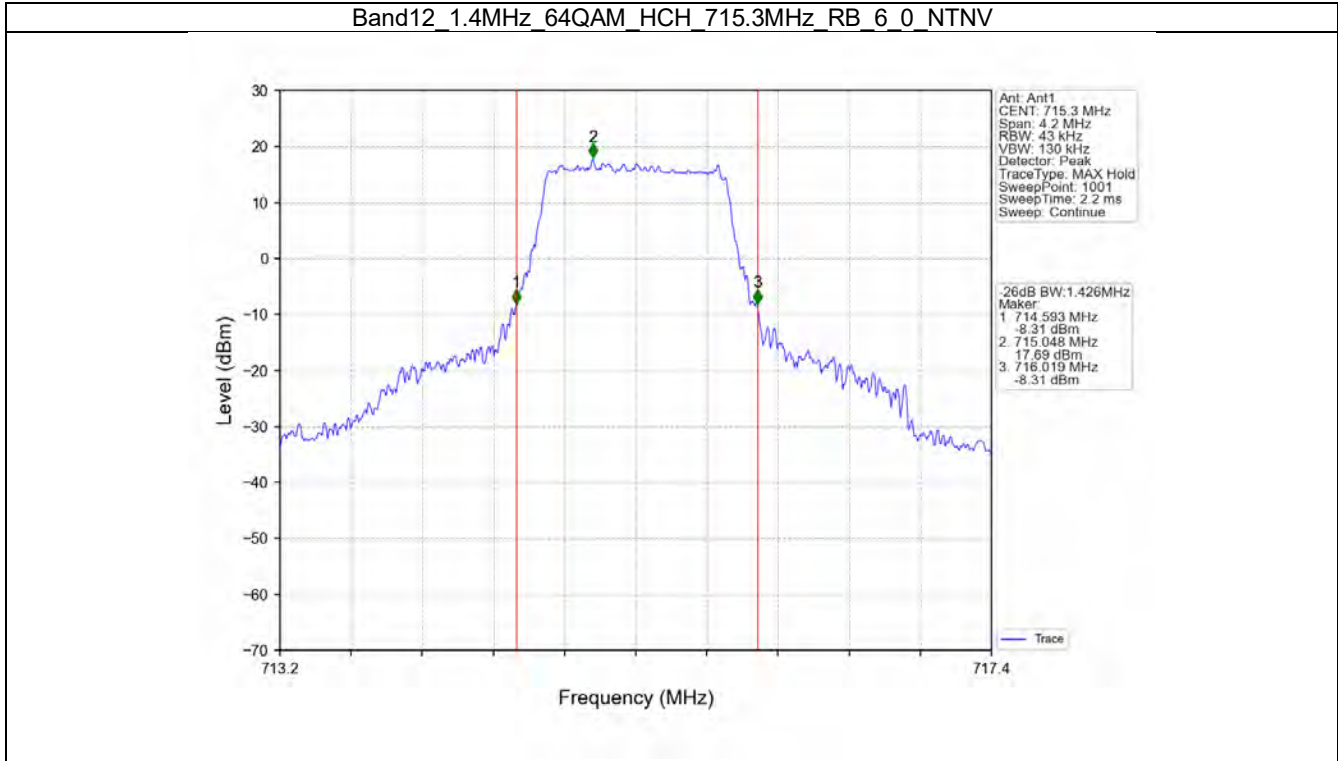


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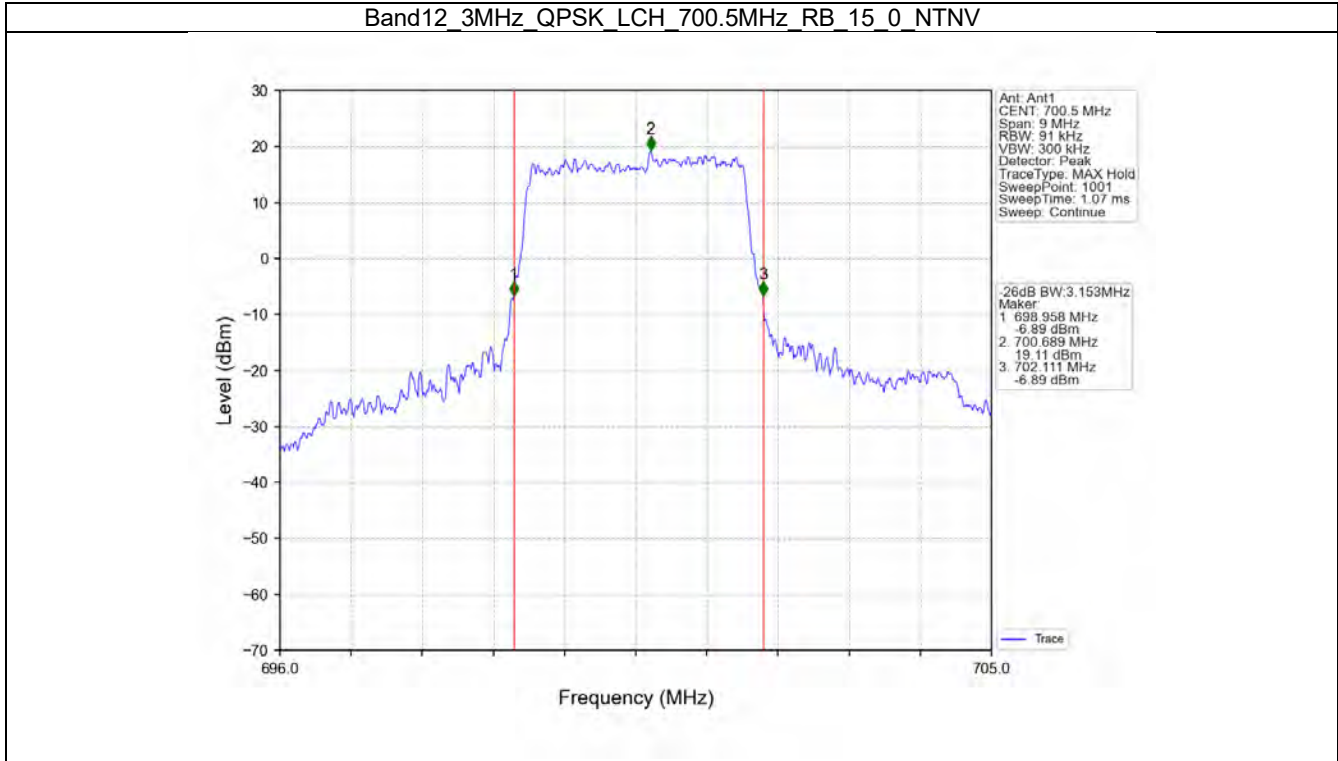


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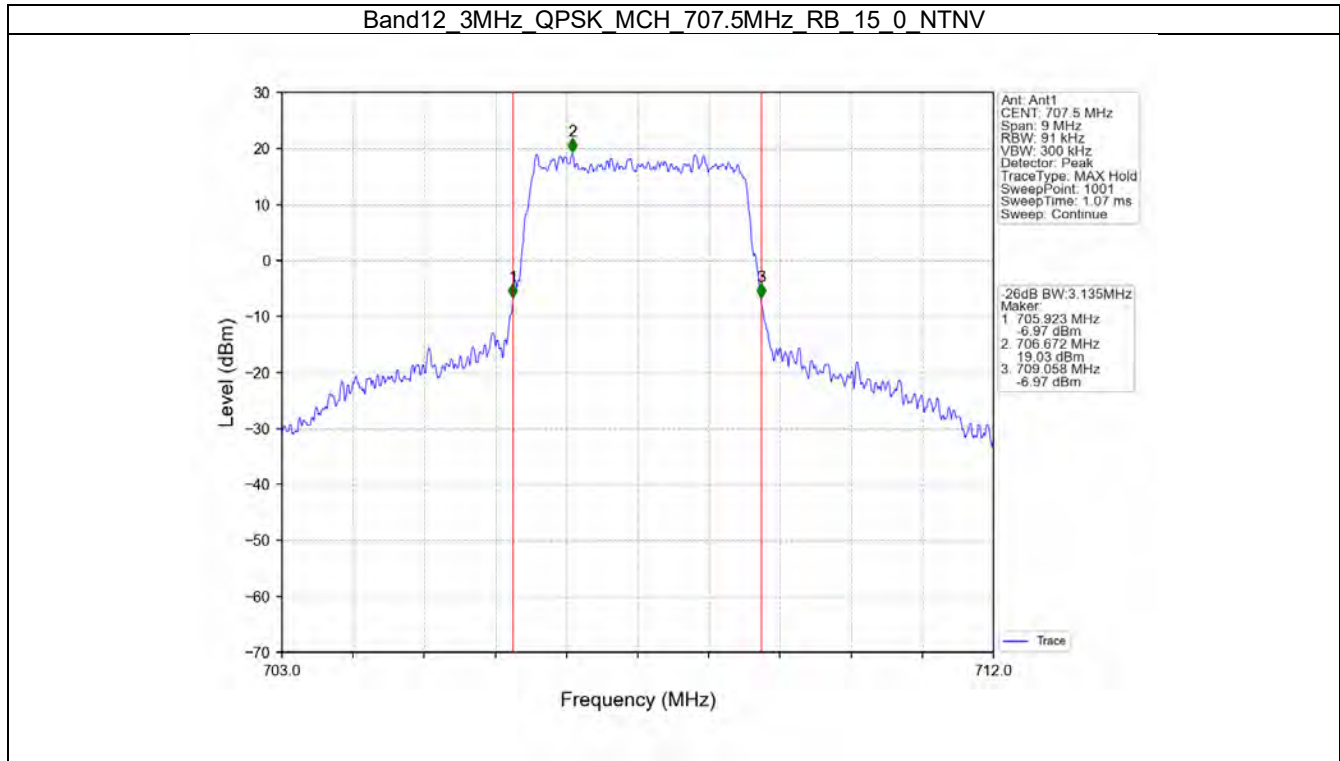


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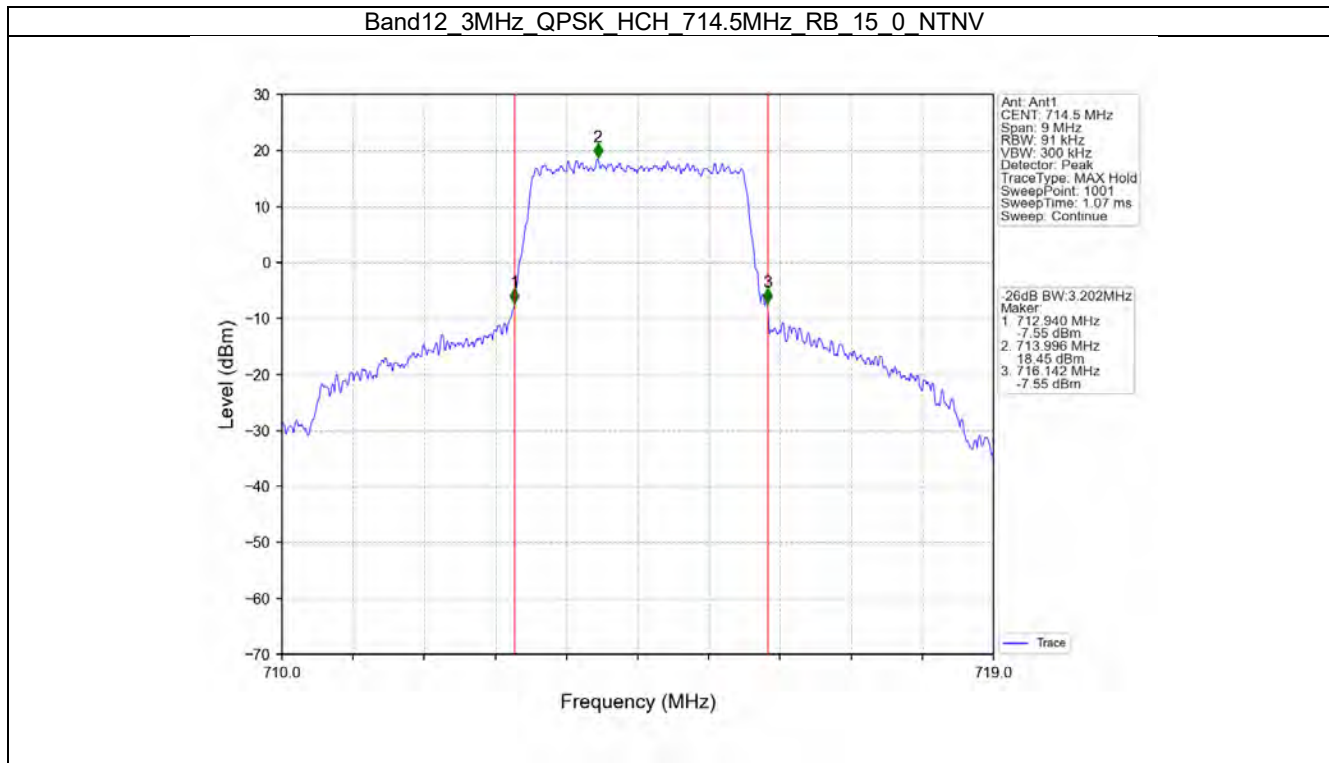
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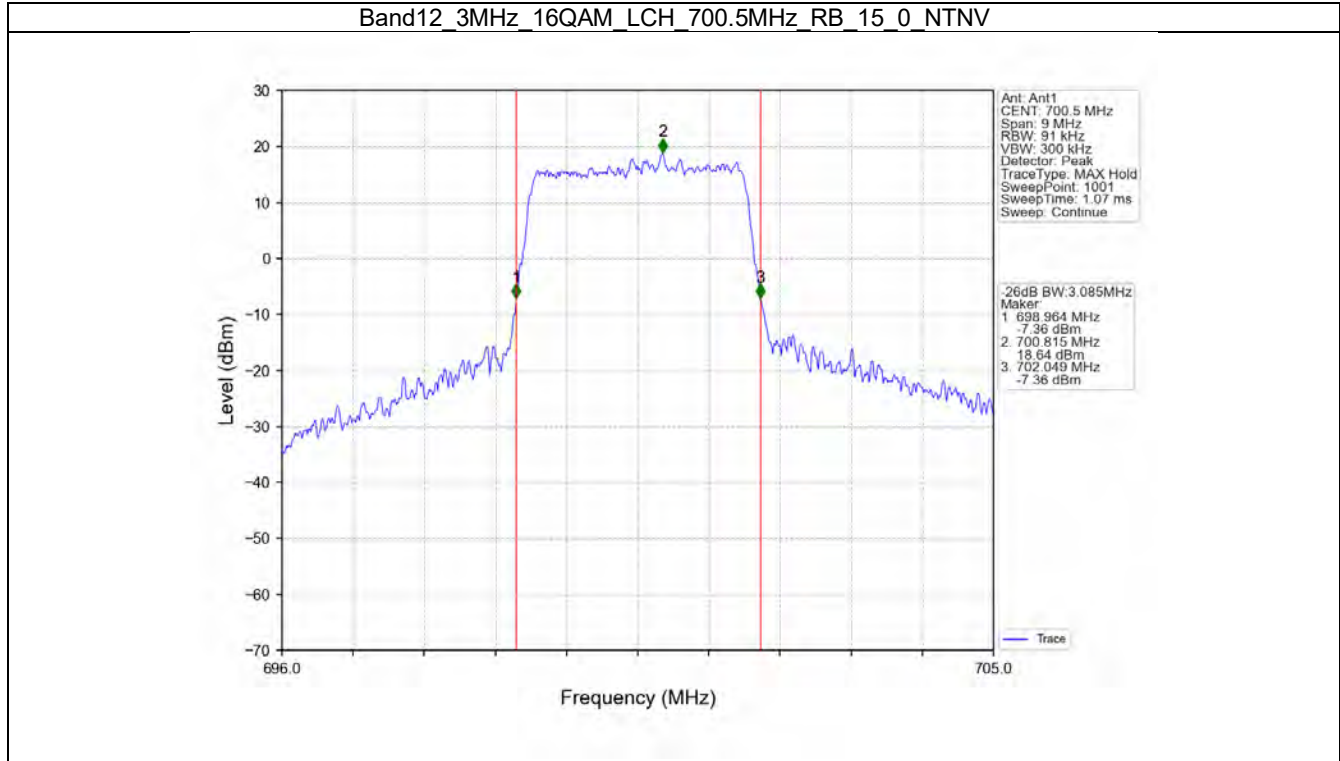


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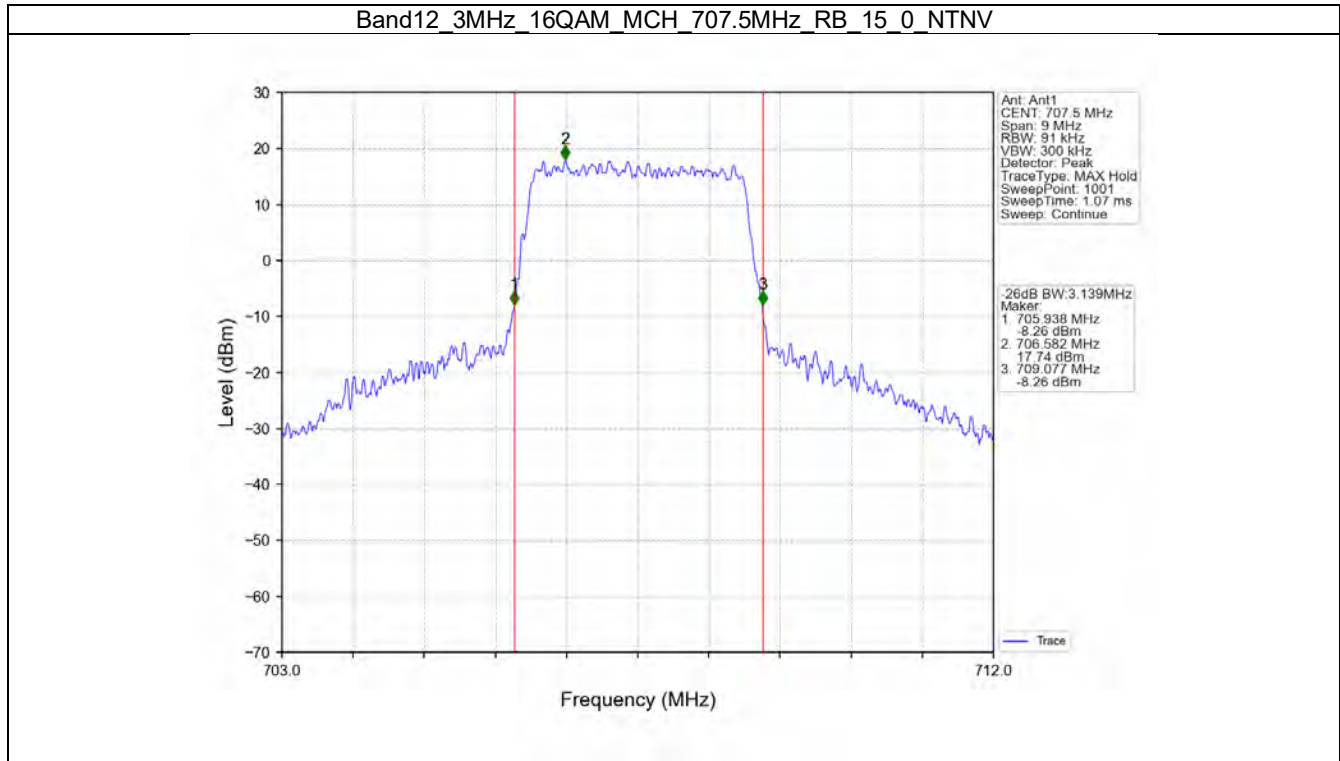


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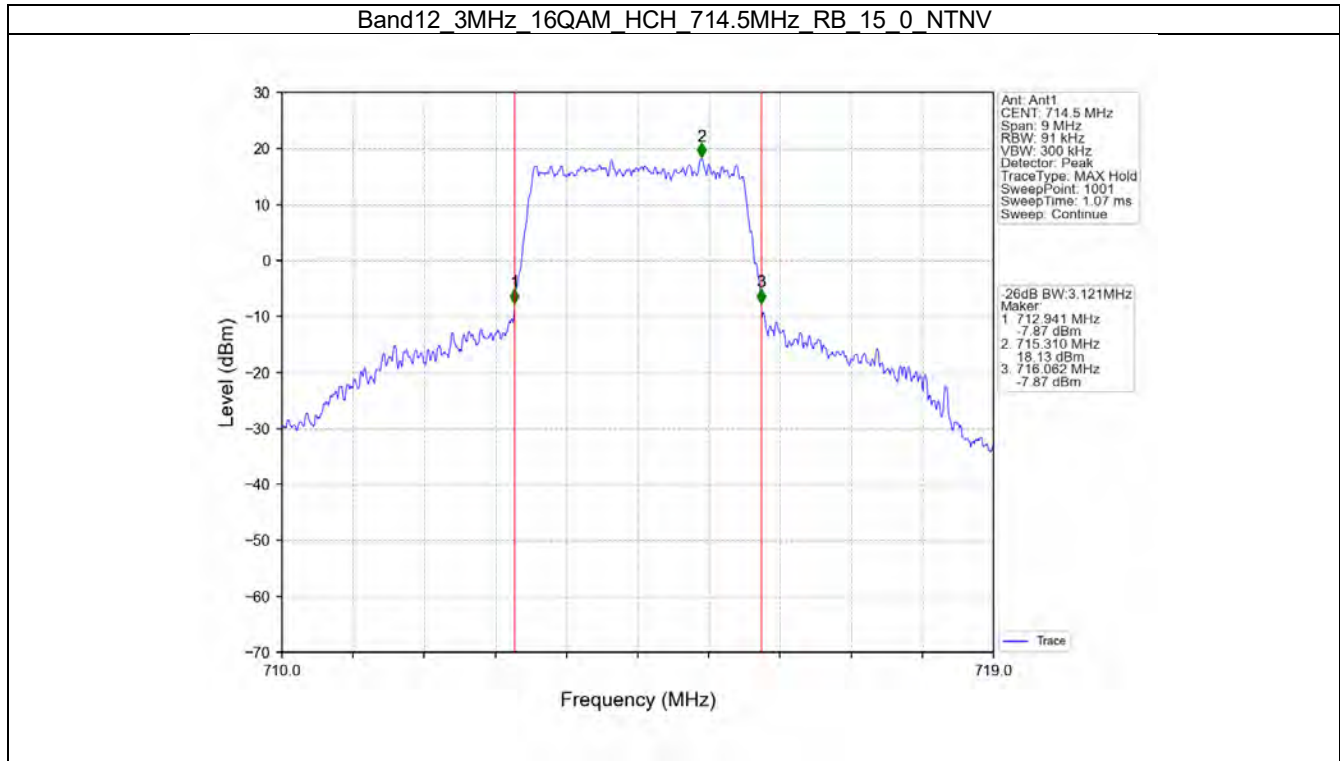


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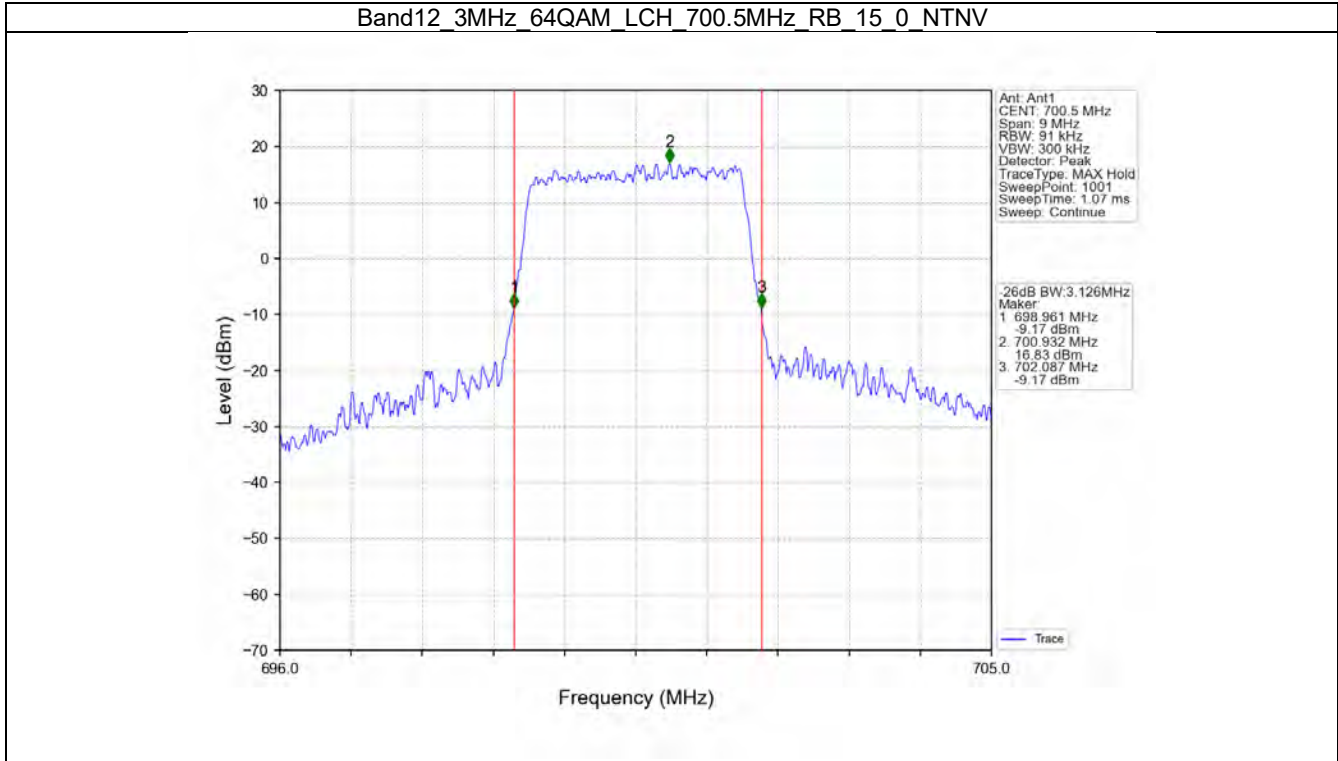


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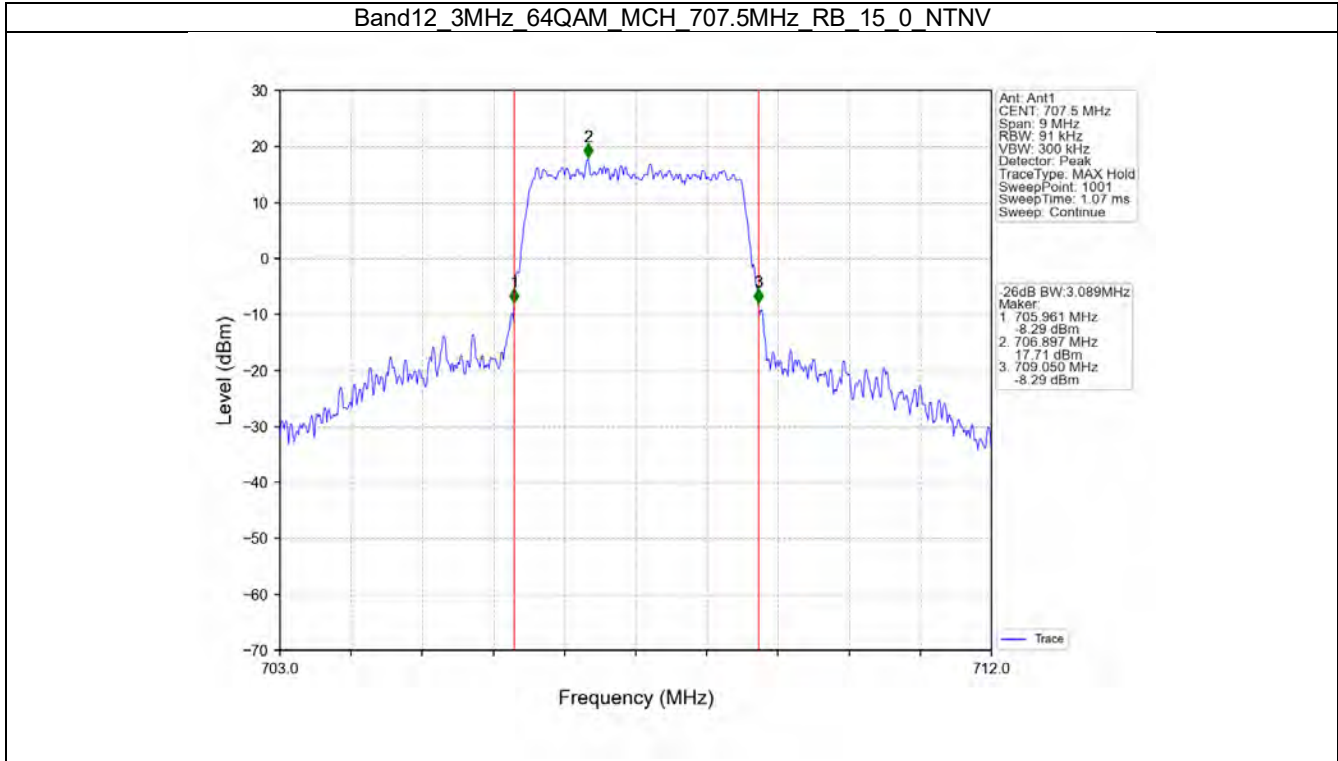


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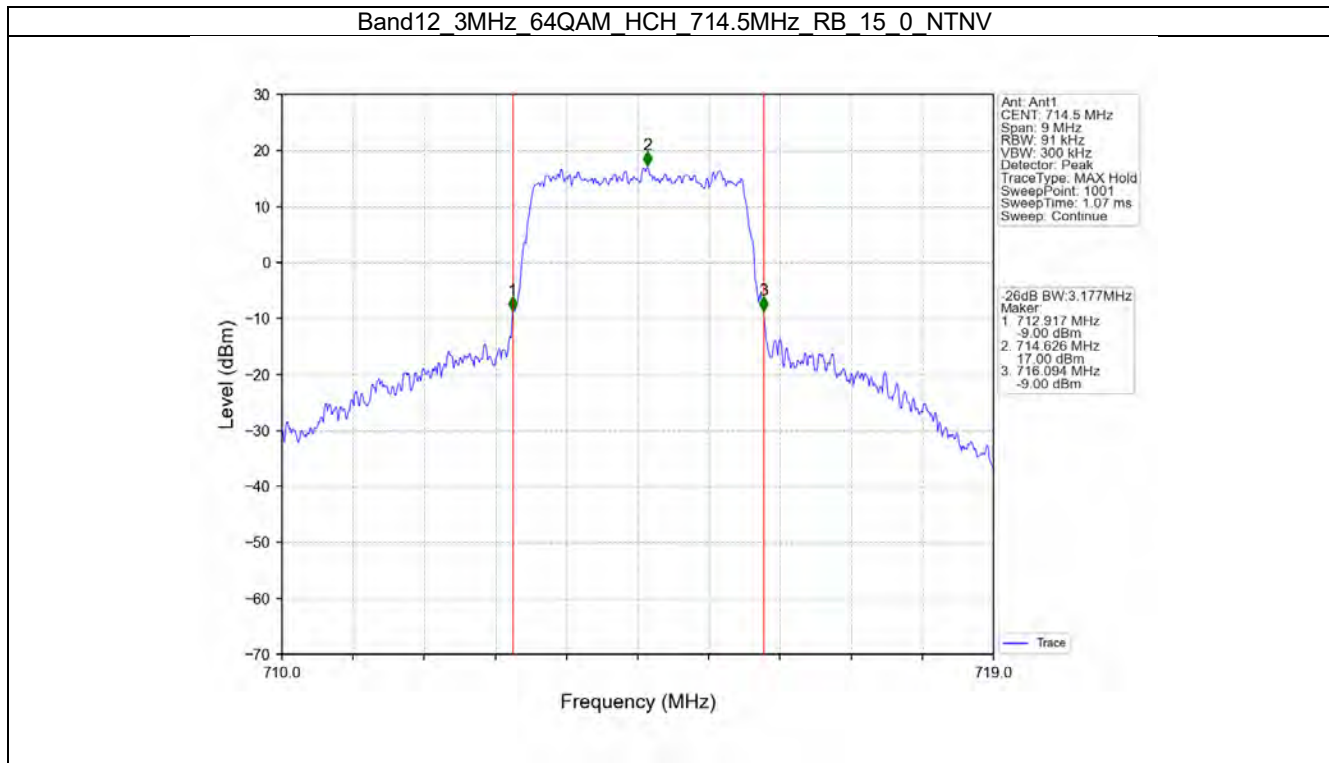
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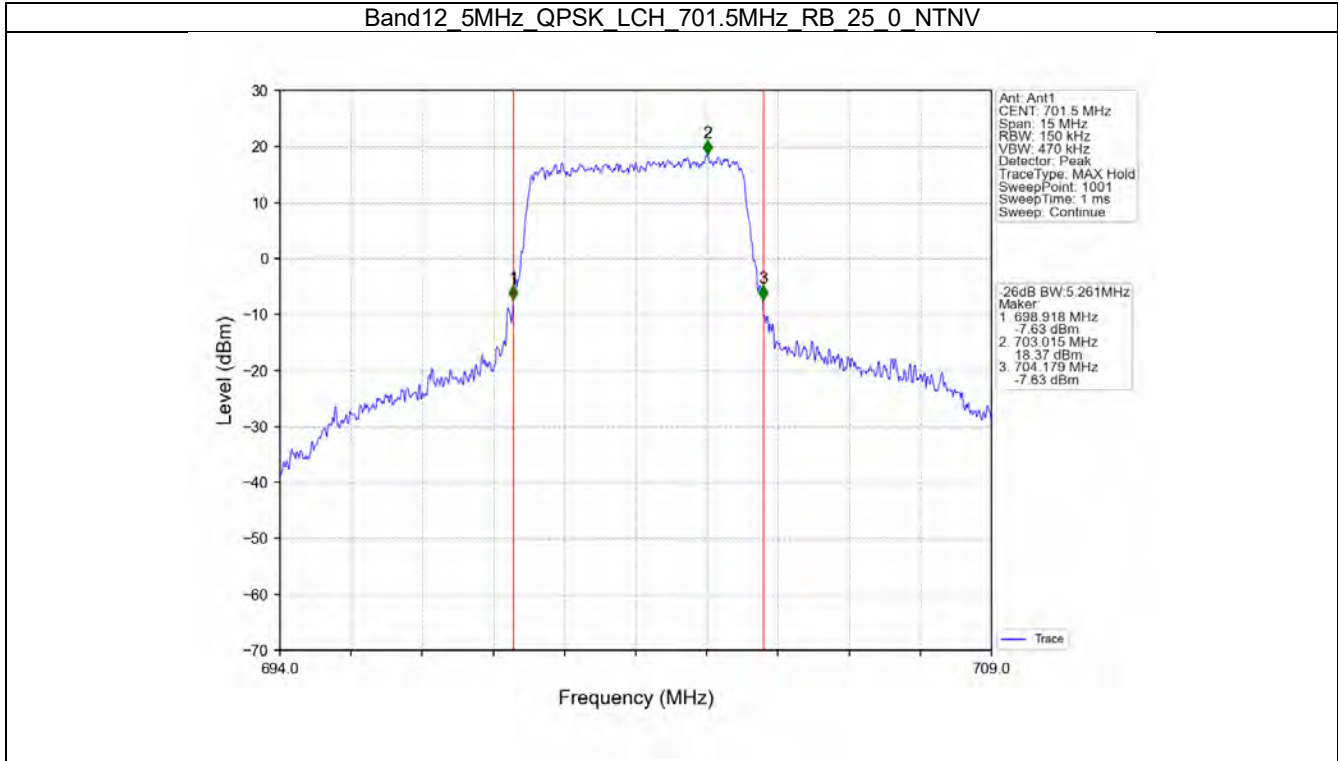


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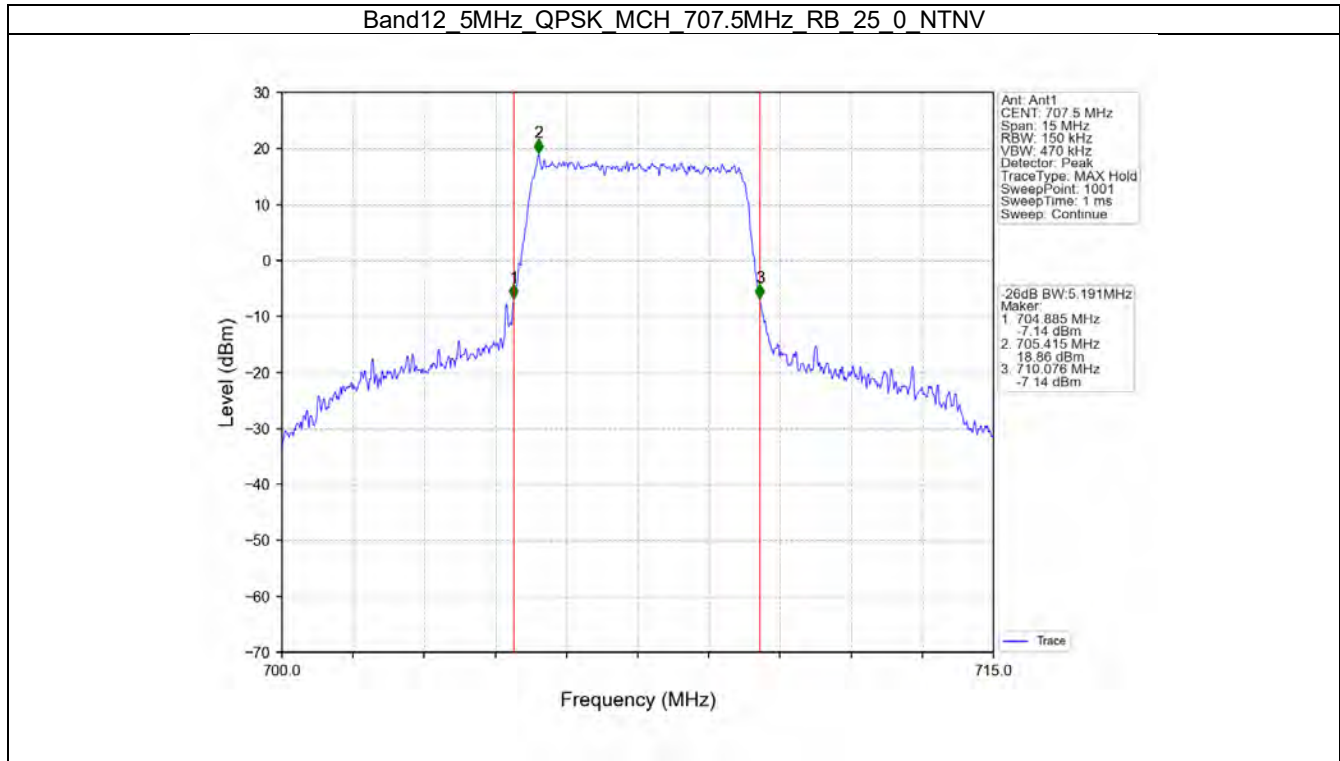


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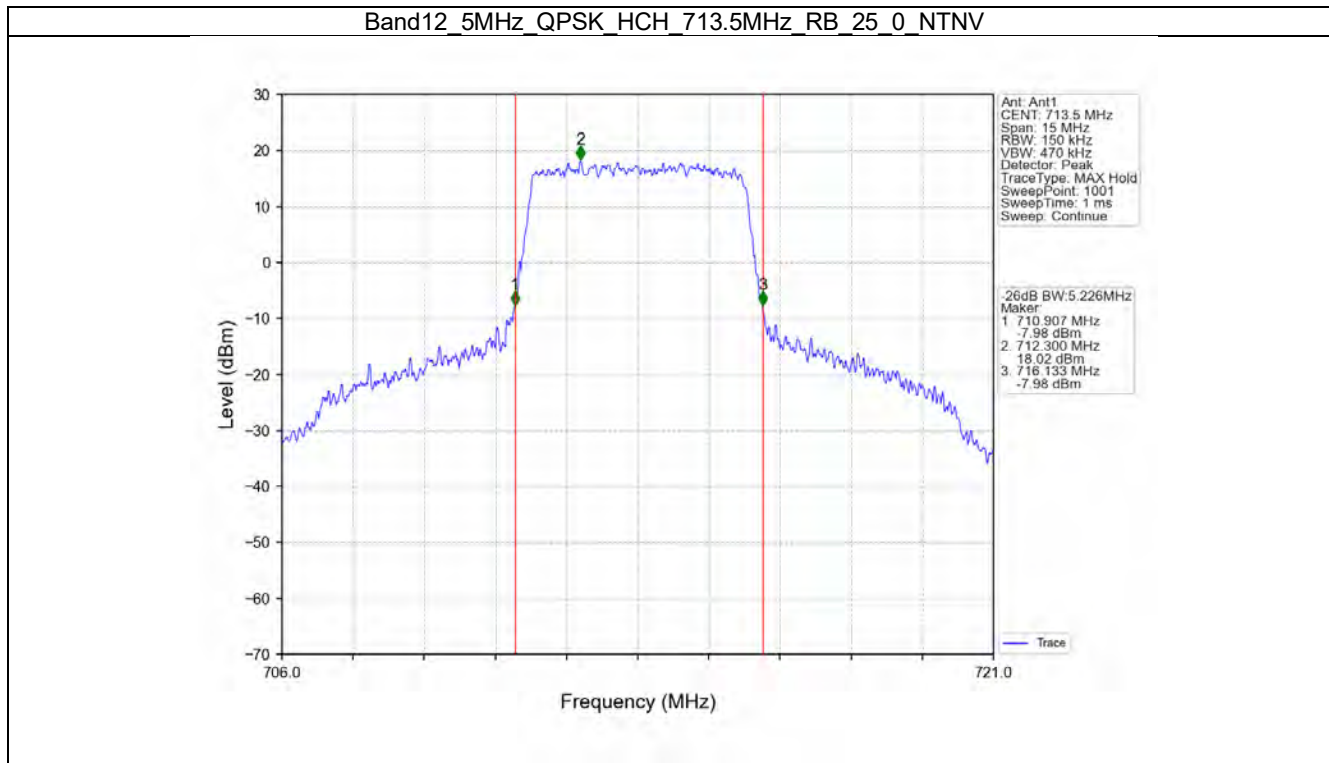
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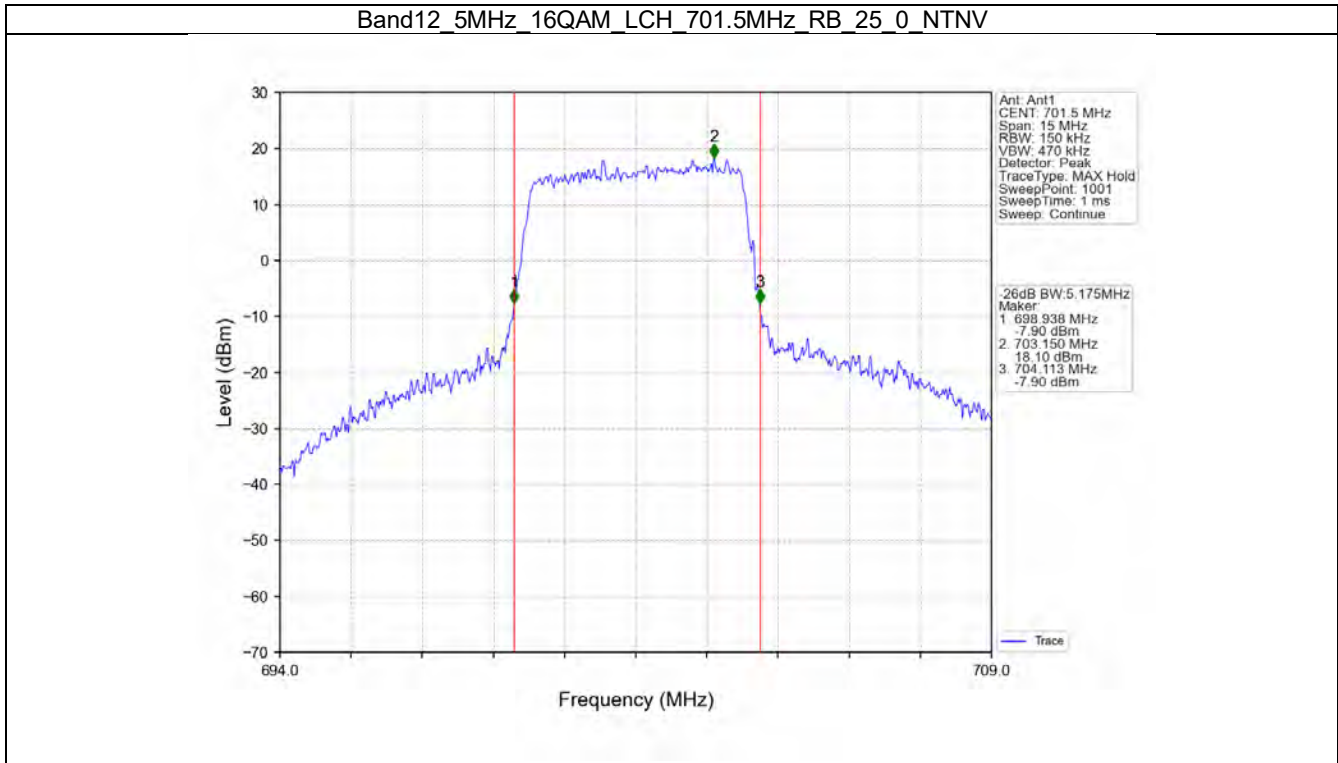


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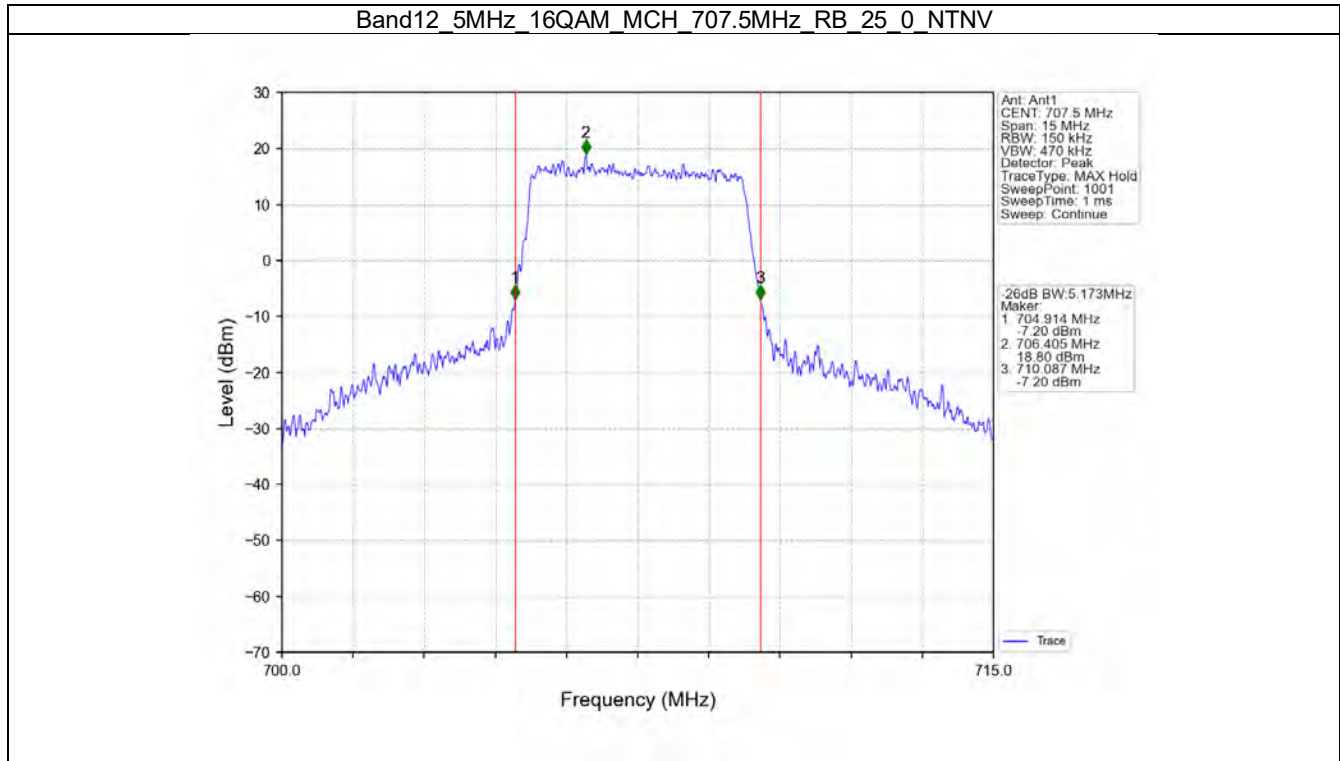


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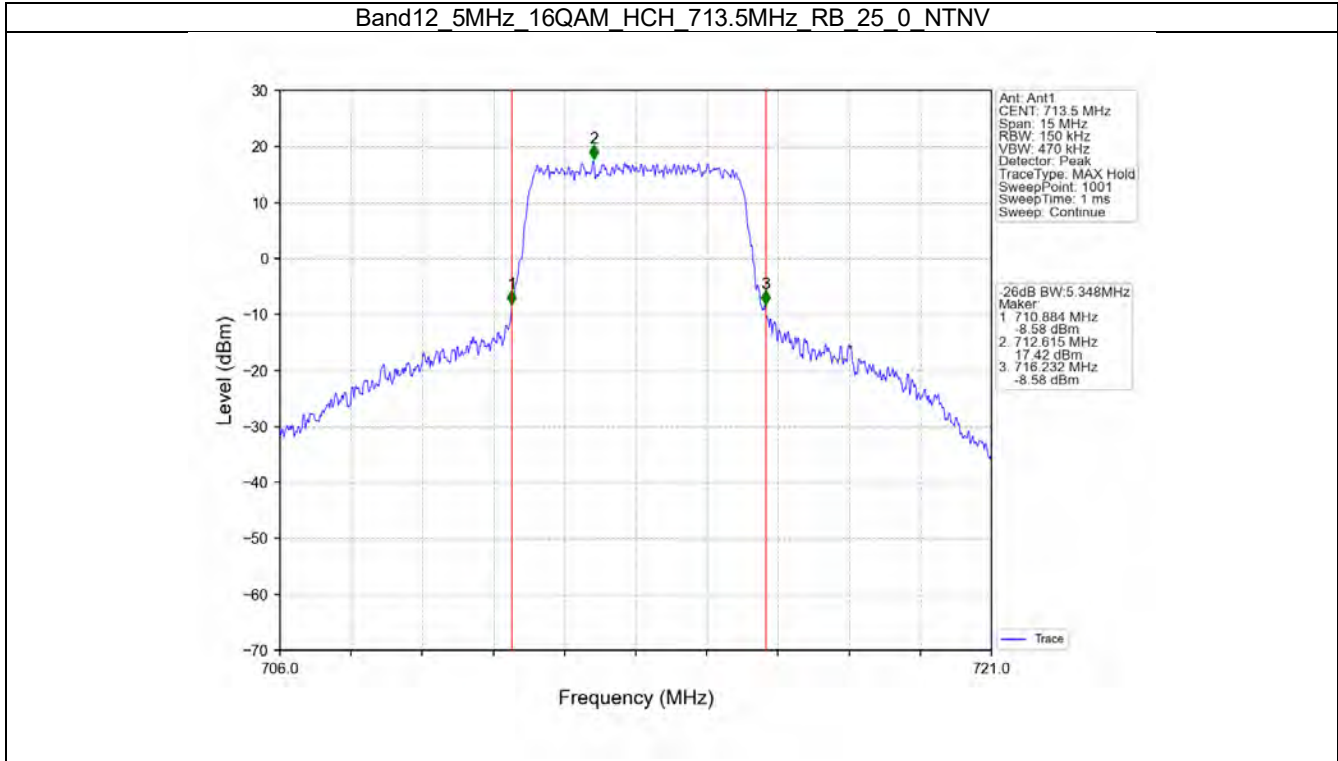


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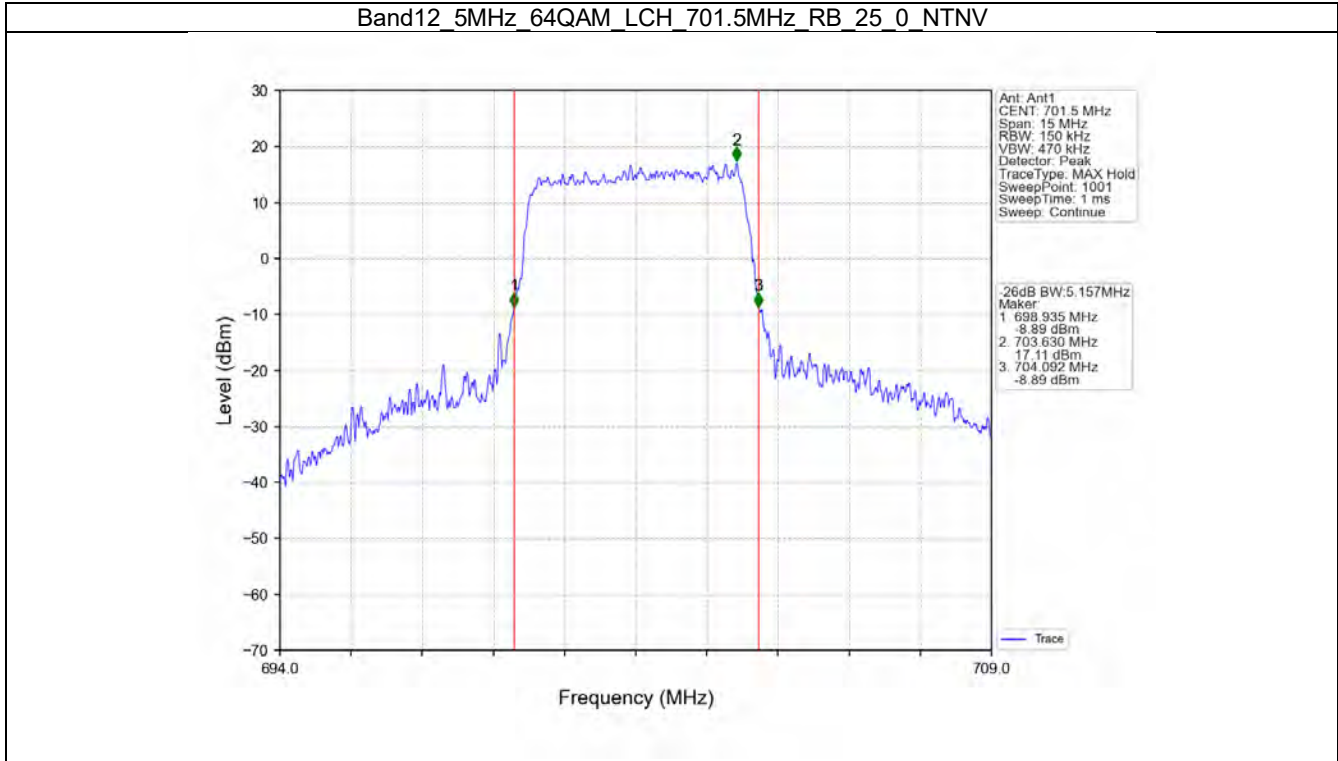


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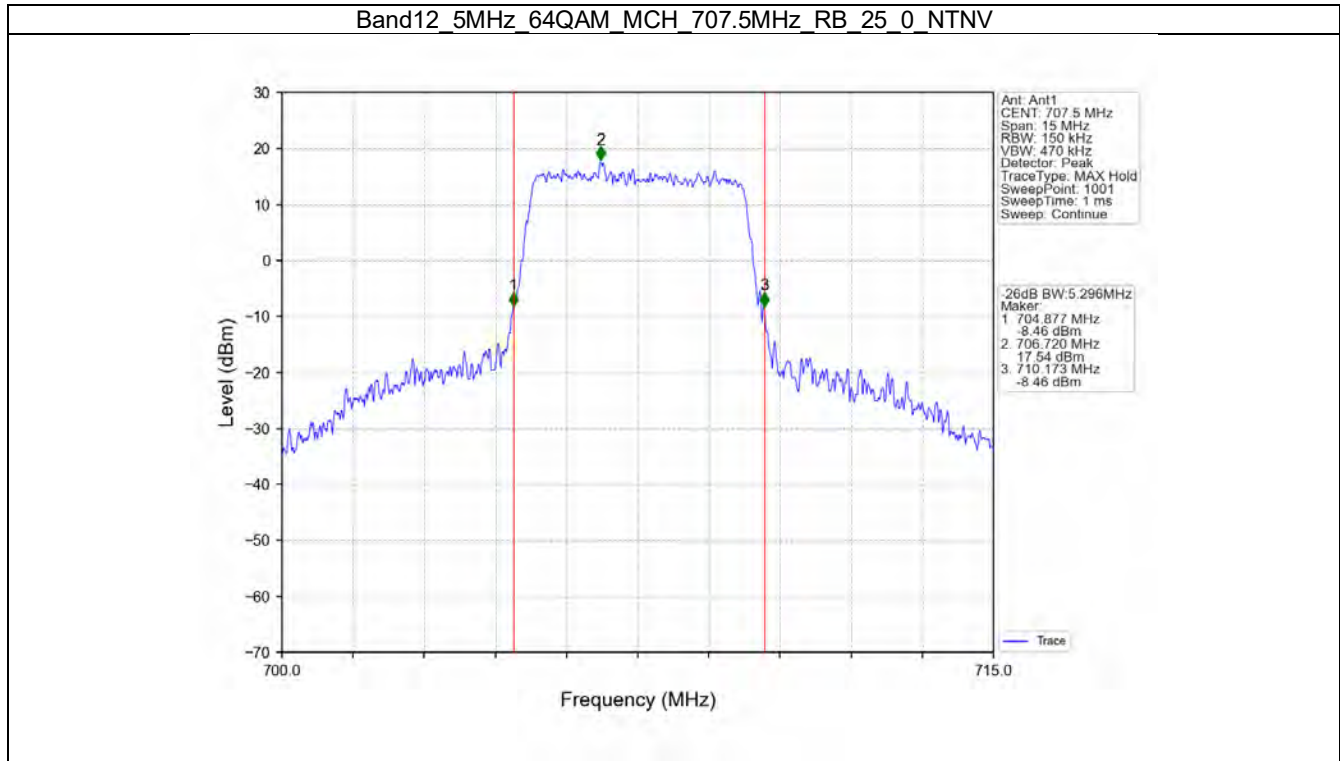


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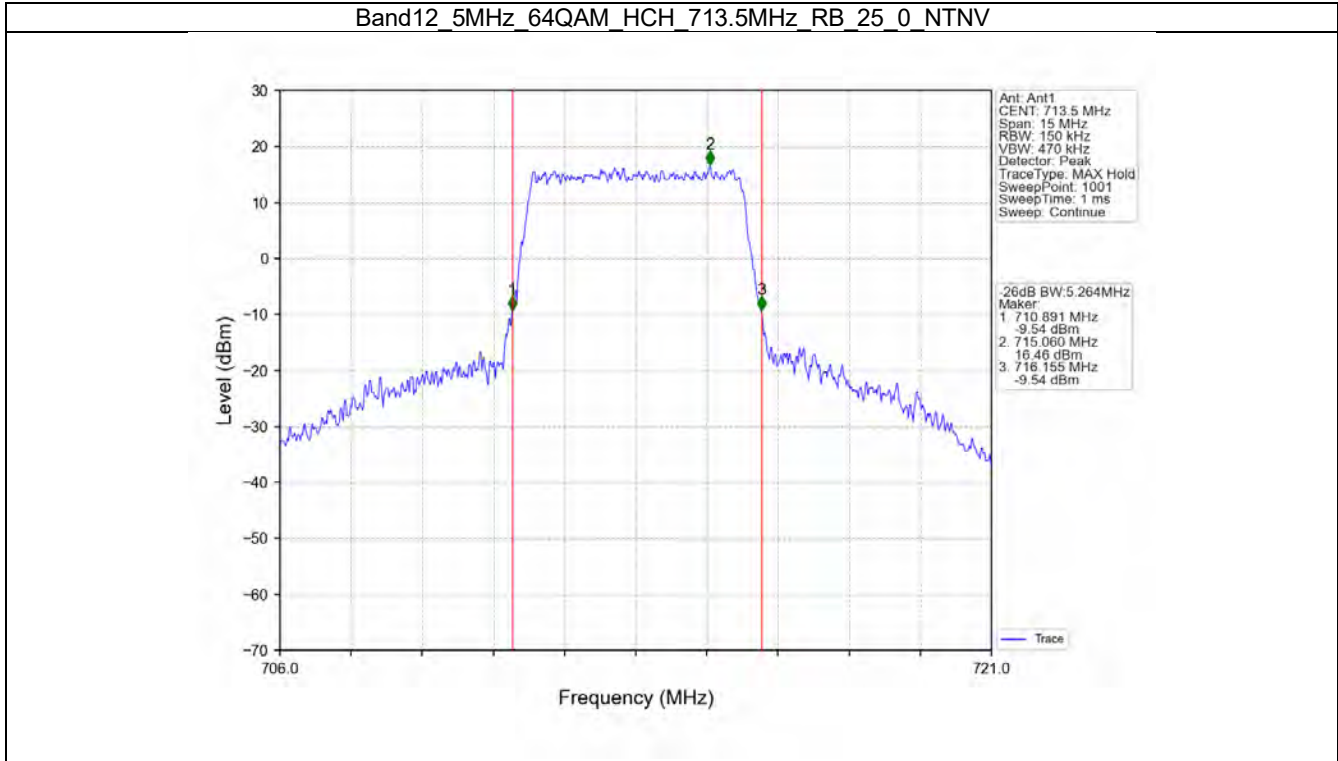


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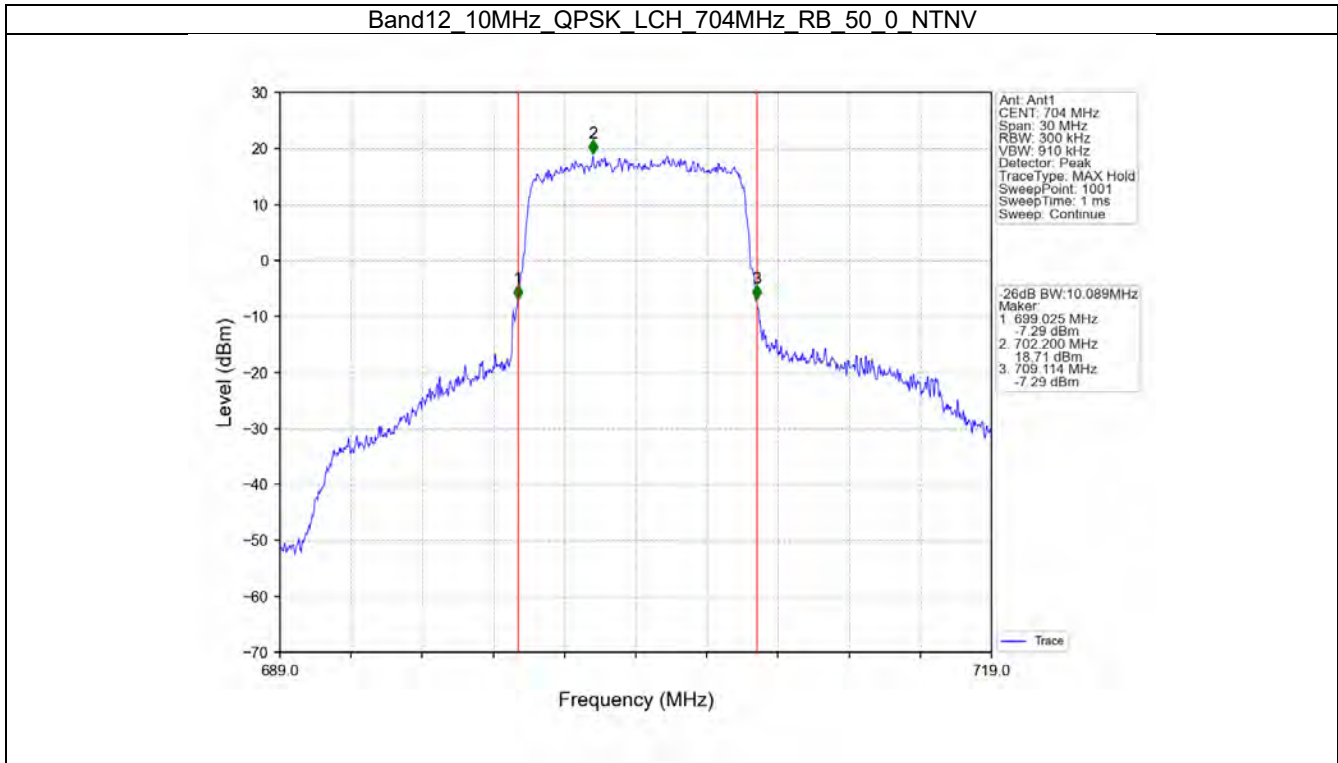


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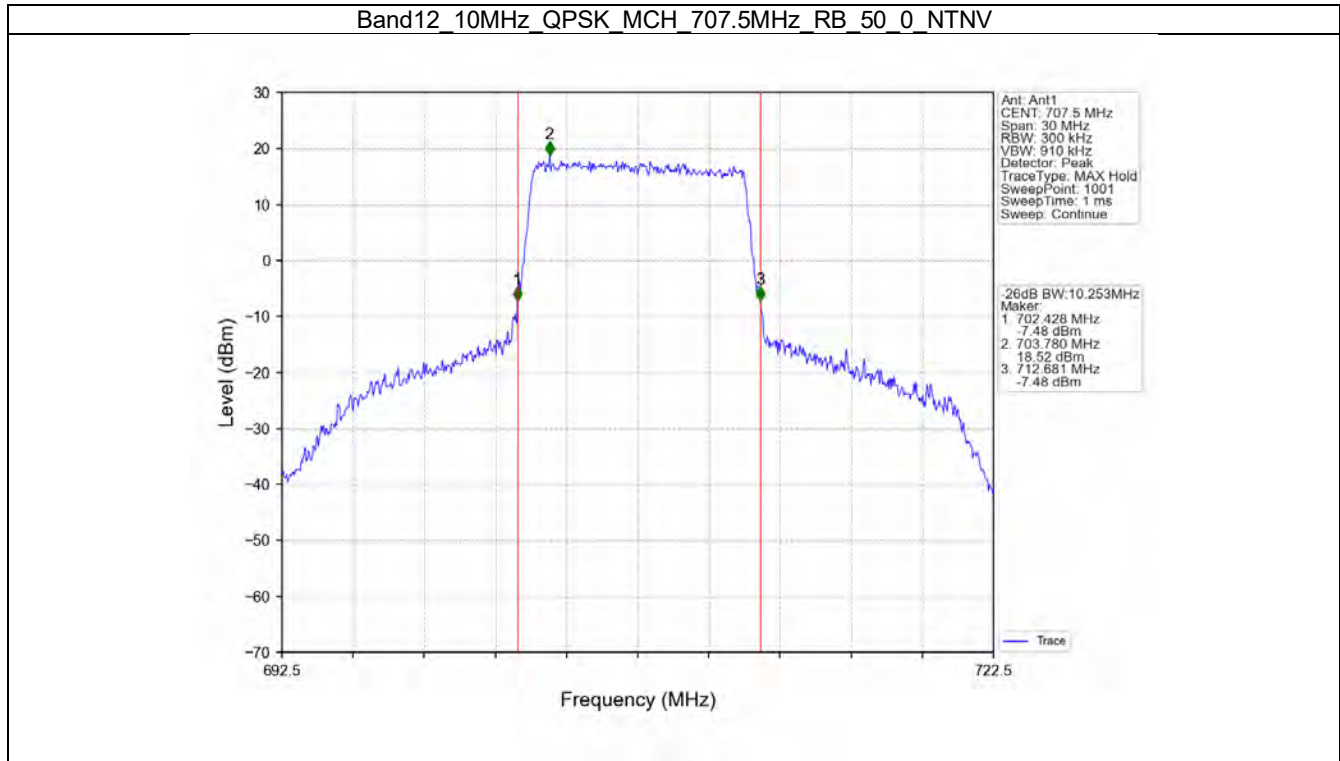


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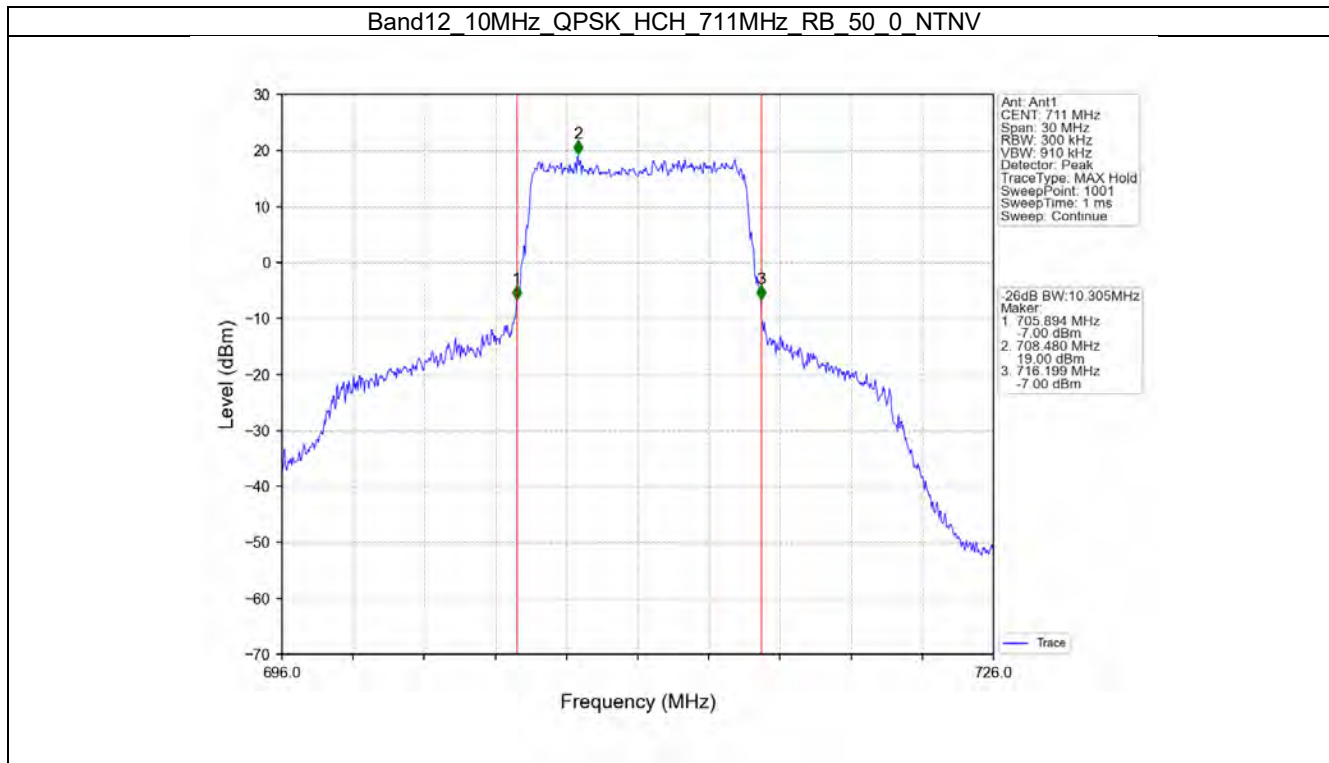
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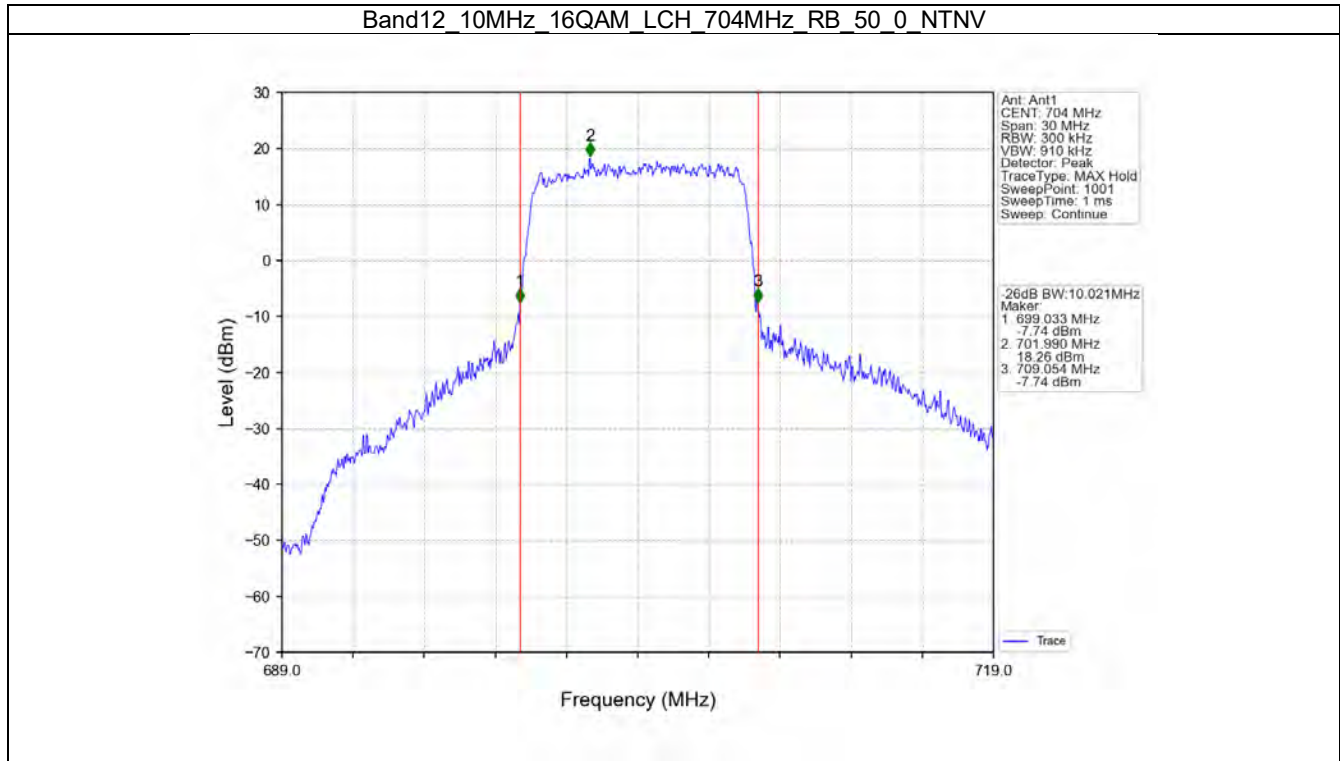


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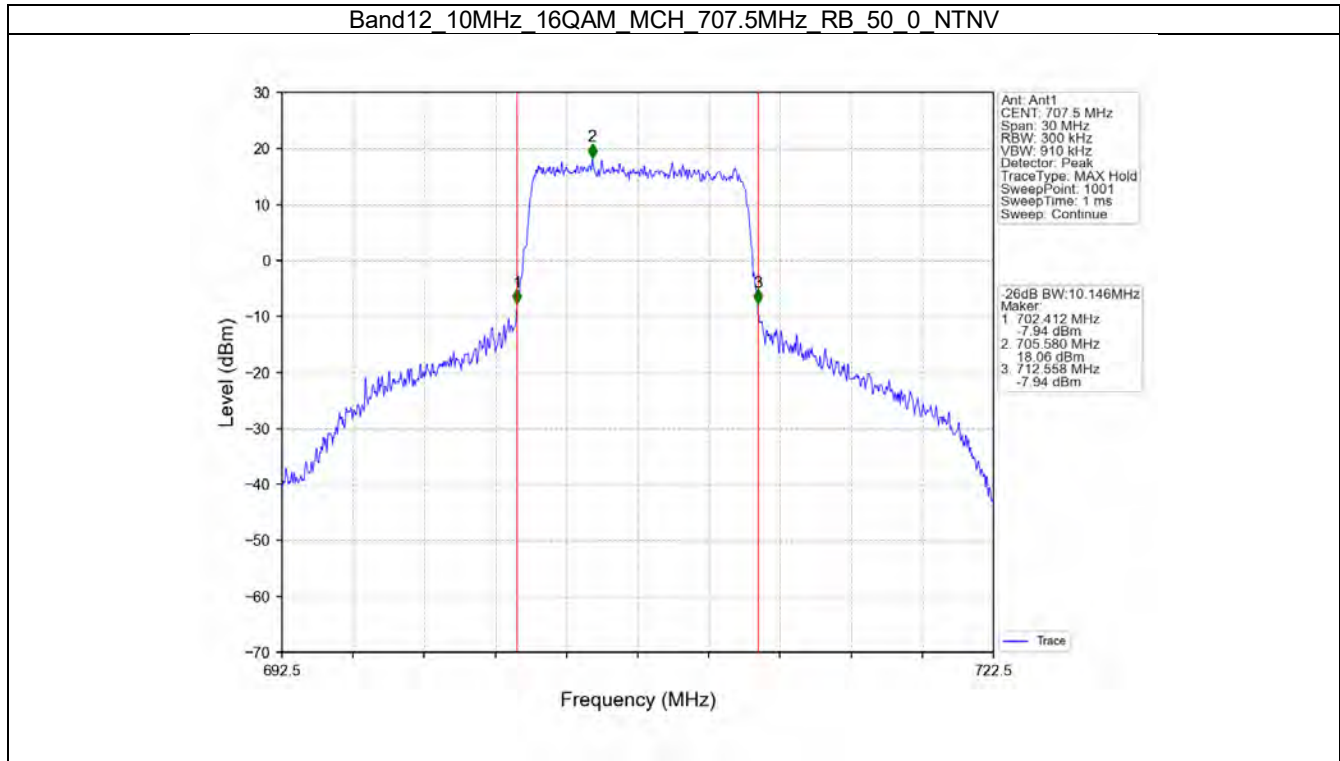


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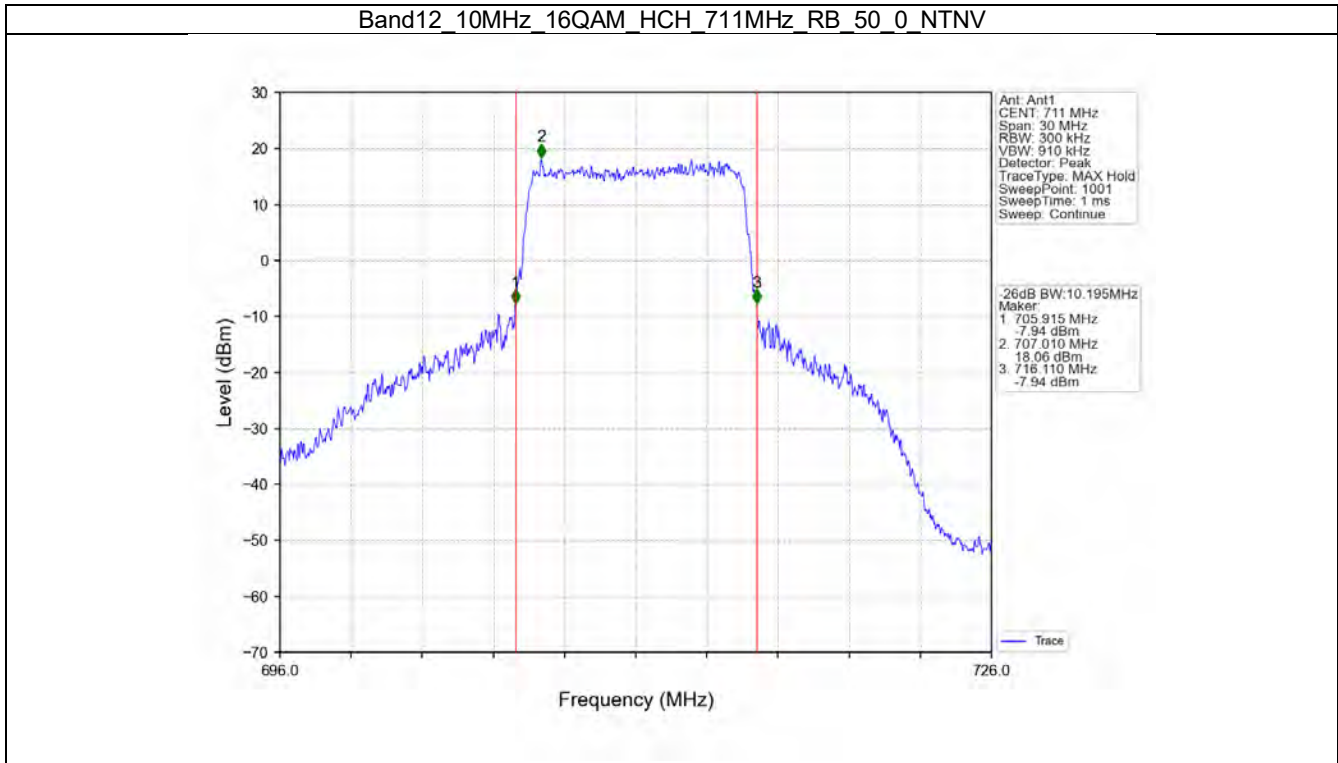


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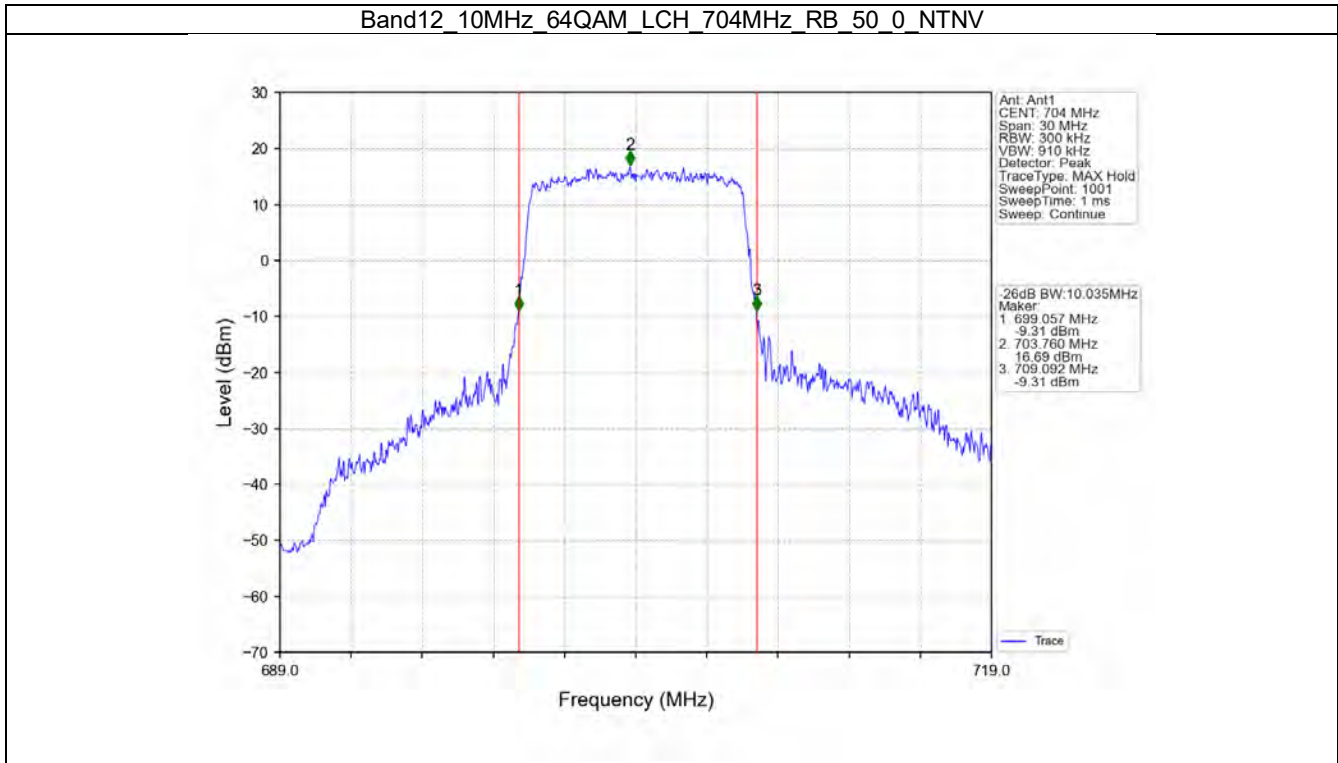


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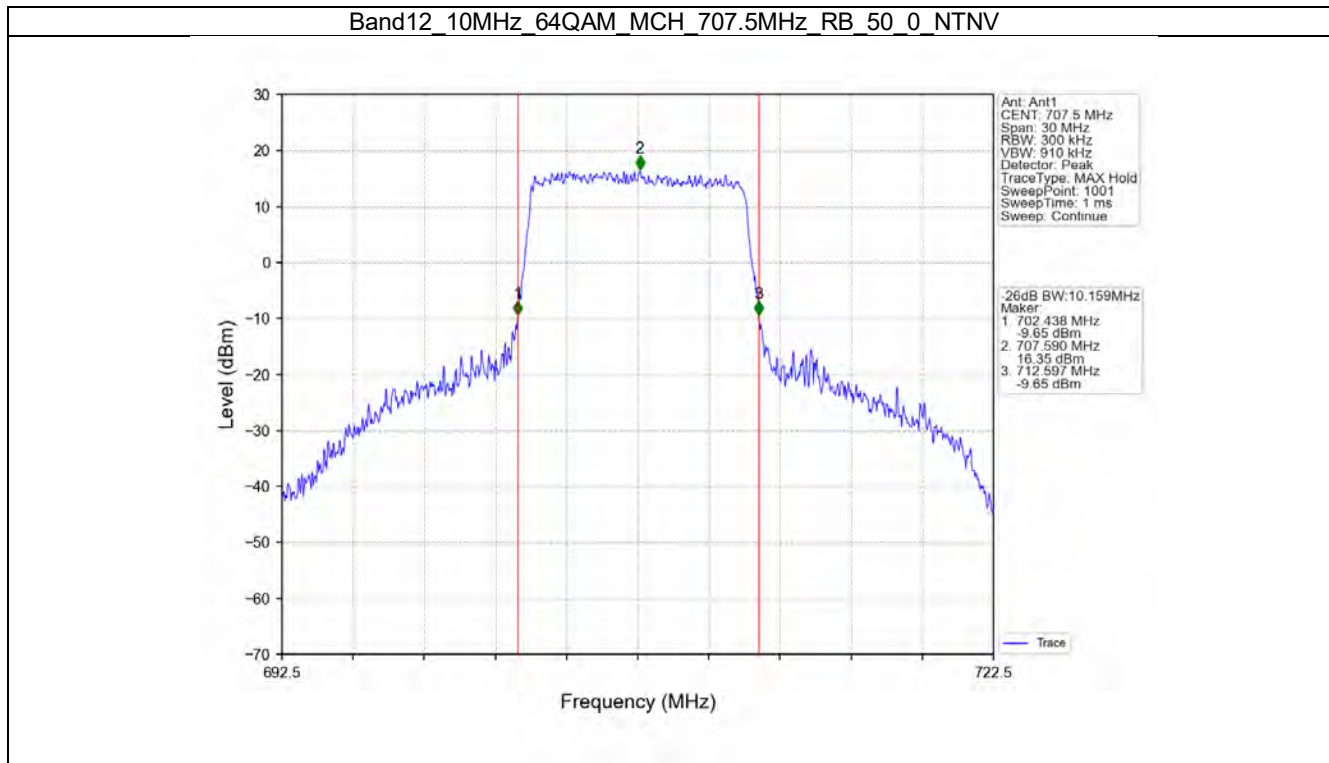
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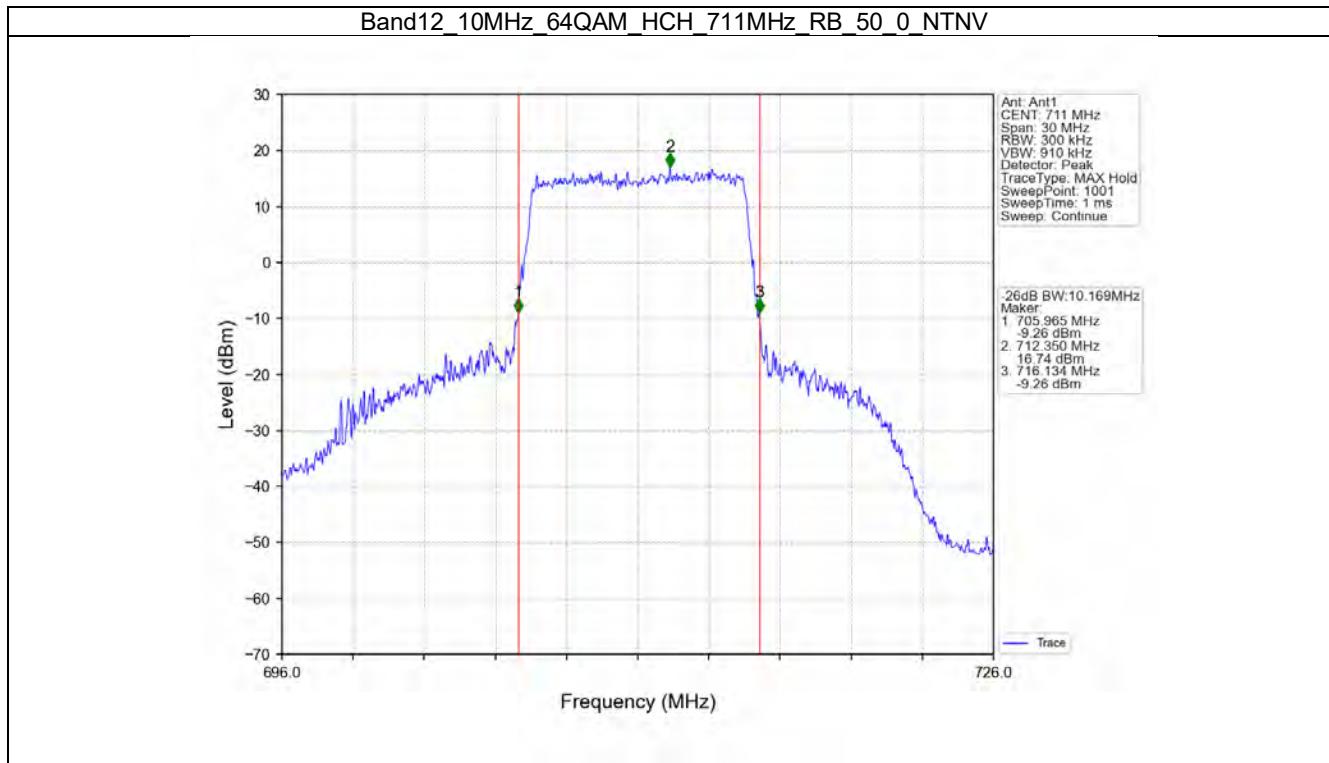
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4. Peak-Average Ratio

4.1 B12_1.4MHz

4.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	4.92	<=13	Pass
	707.5	6	0	4.58	<=13	Pass
	715.3	6	0	4.09	<=13	Pass
16QAM	699.7	6	0	5.89	<=13	Pass
	707.5	6	0	5.48	<=13	Pass
	715.3	6	0	4.98	<=13	Pass
64QAM	699.7	6	0	6.42	<=13	Pass
	707.5	6	0	6.15	<=13	Pass
	715.3	6	0	5.69	<=13	Pass



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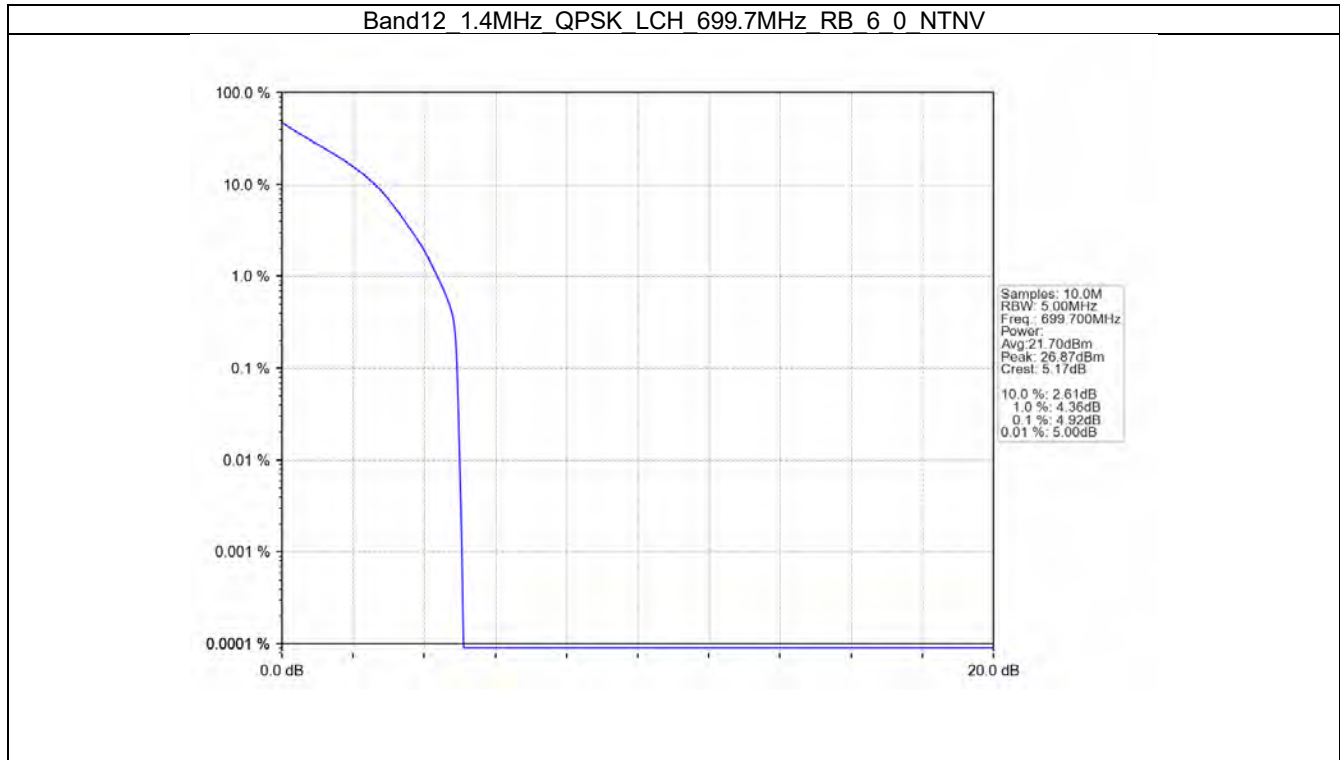
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4.1.2 Test Graph



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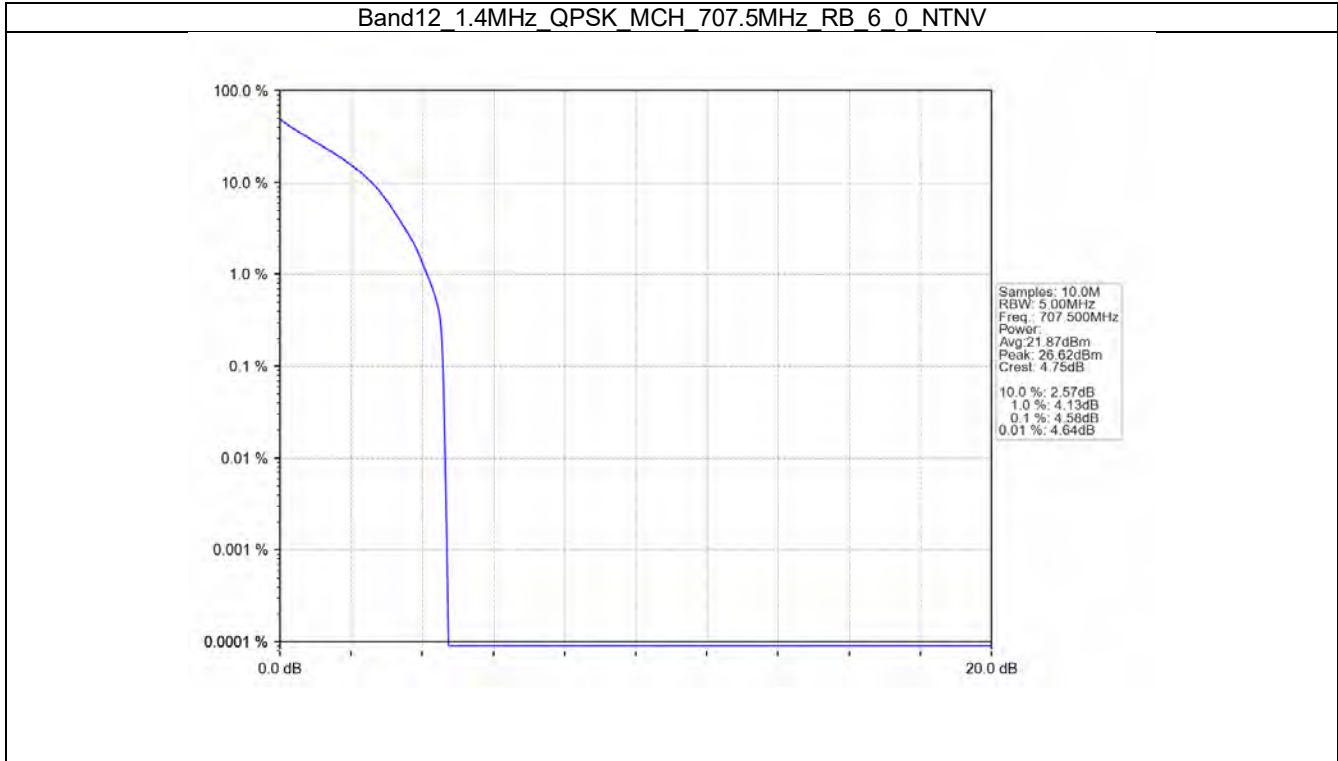


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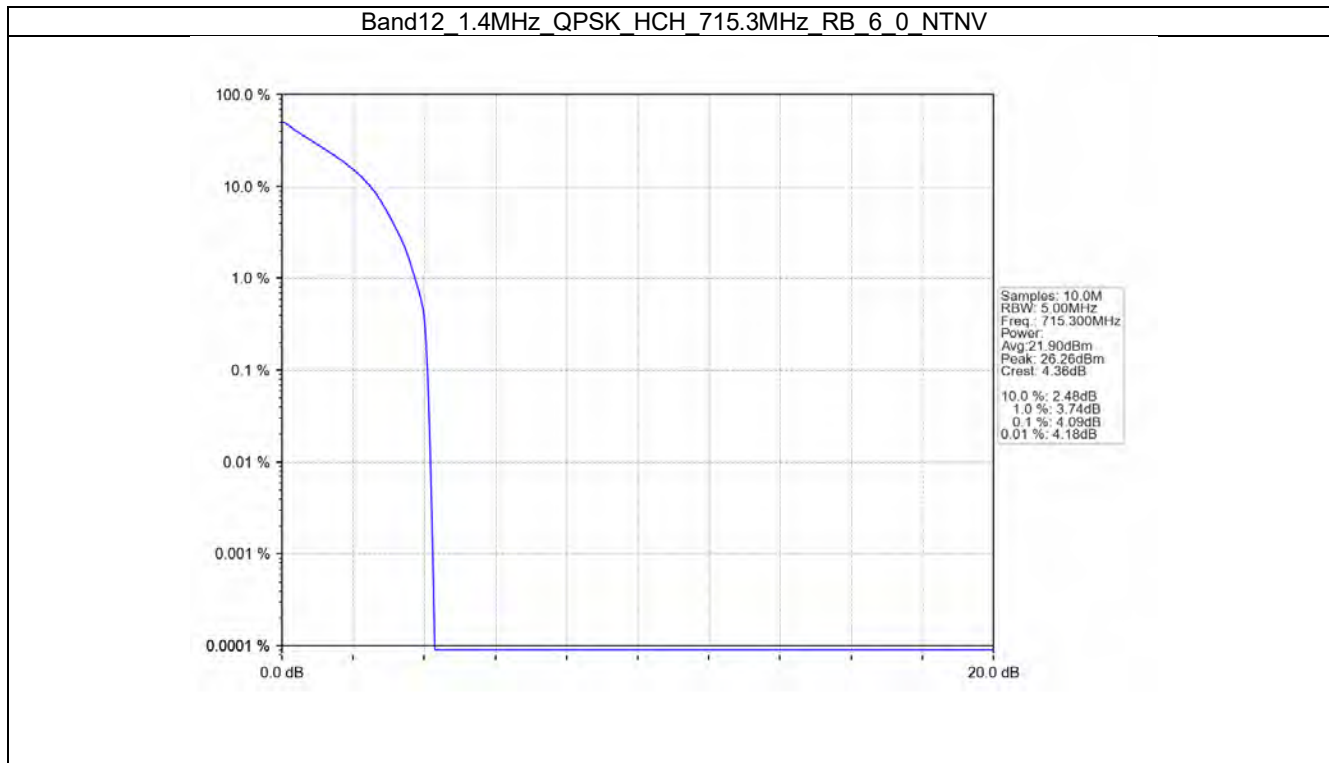
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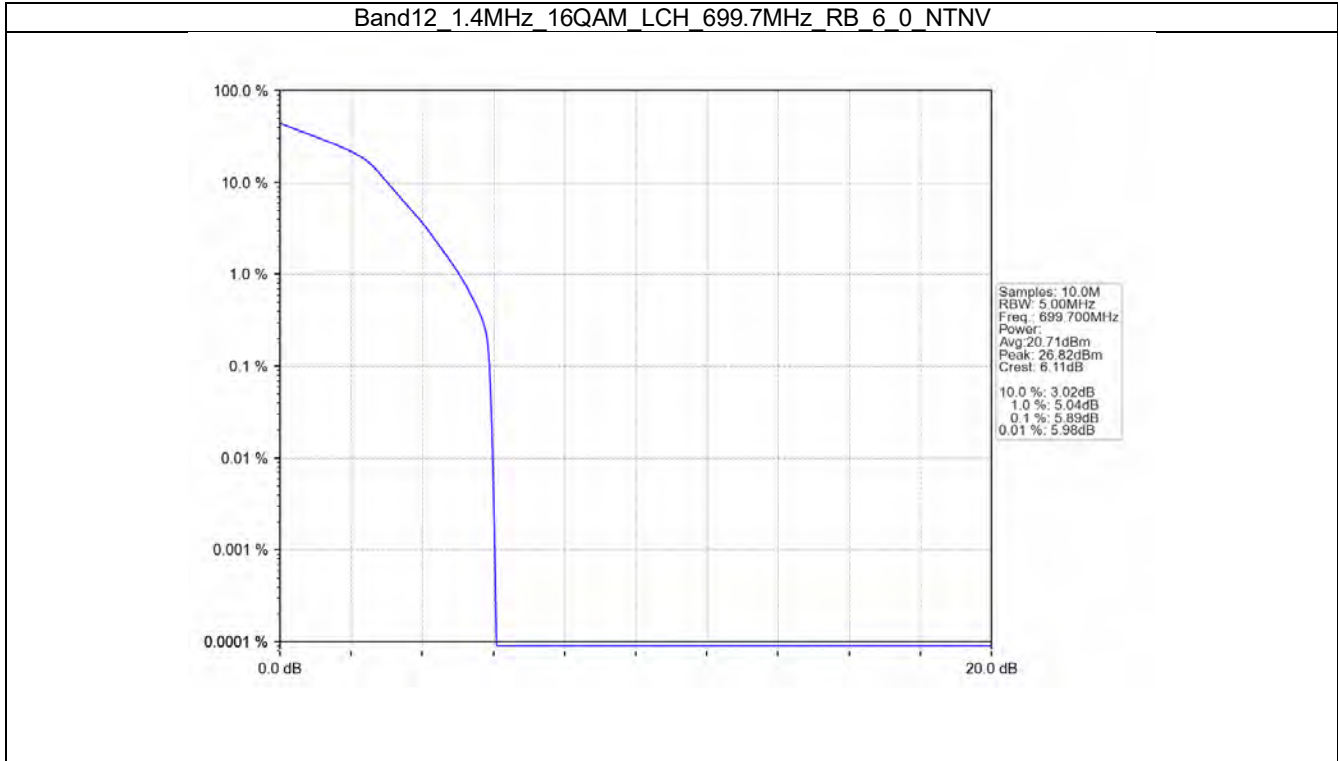


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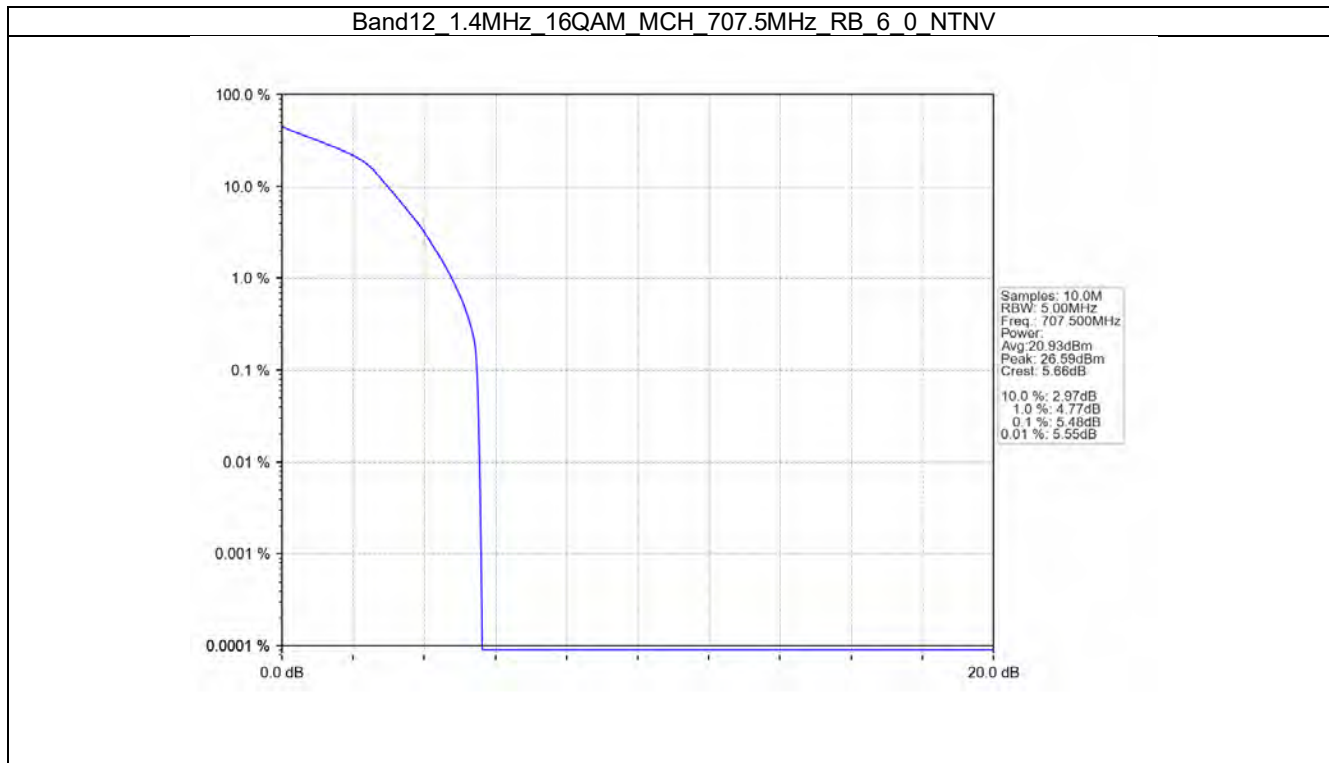
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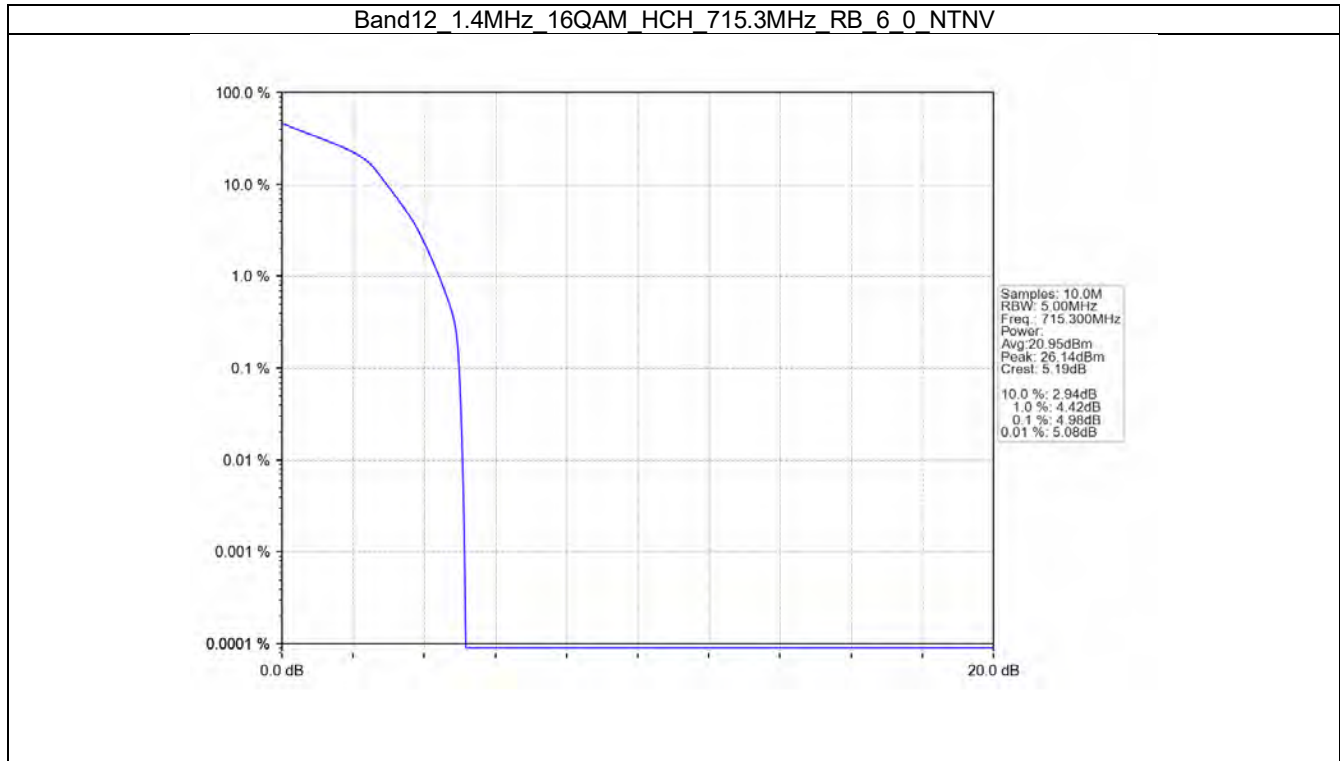


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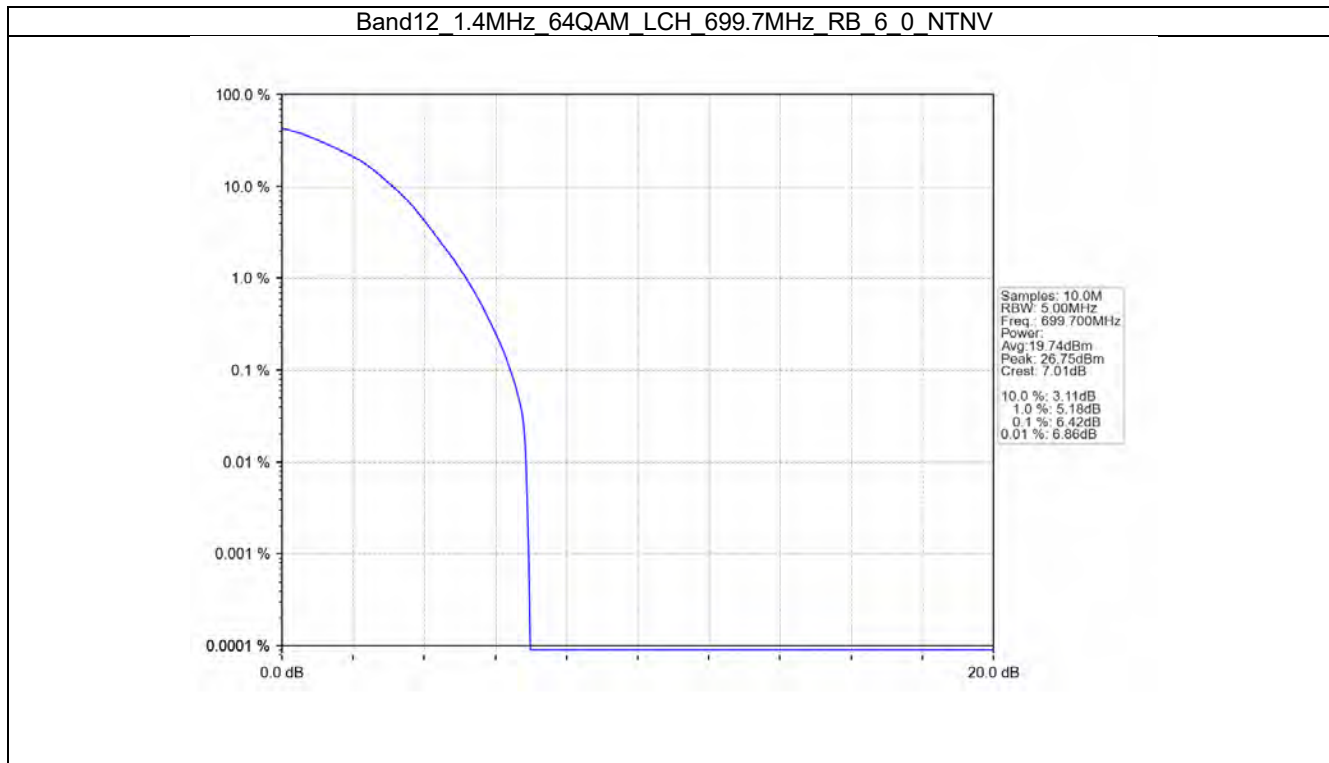
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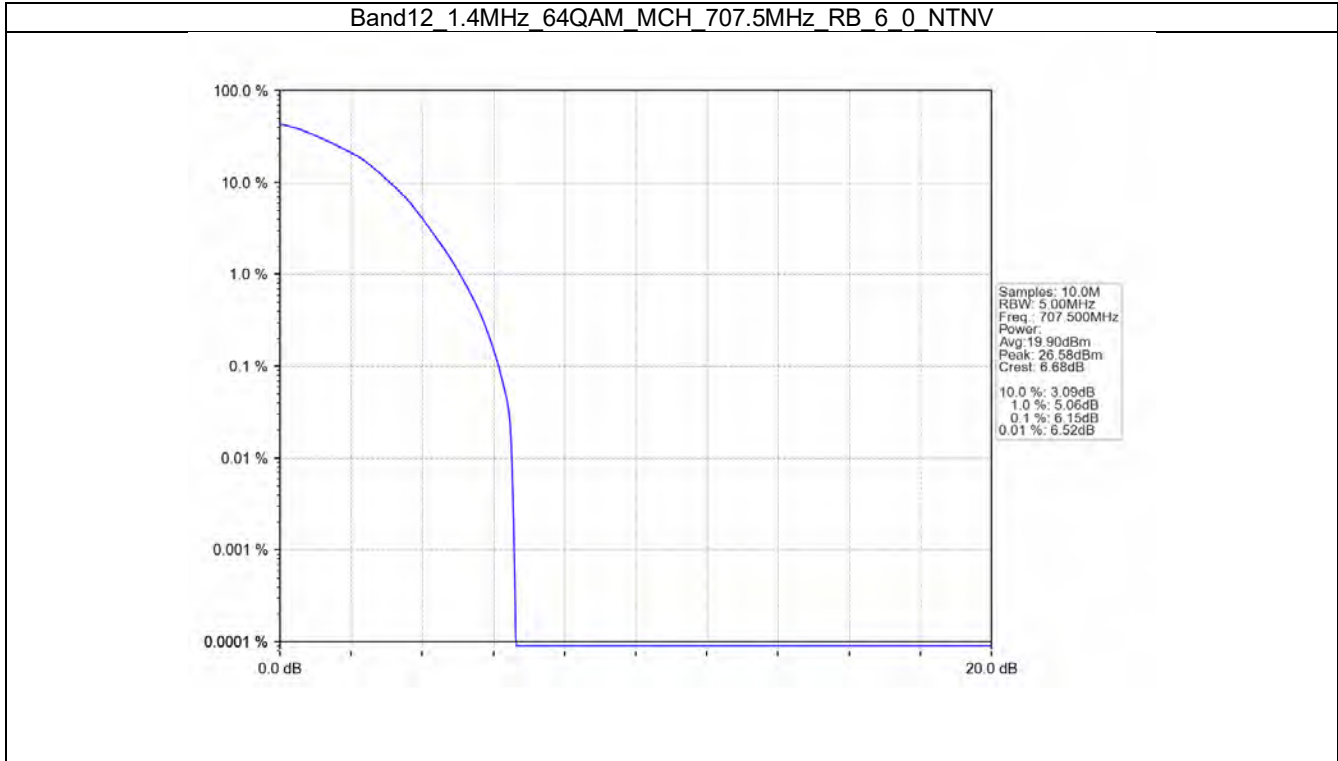


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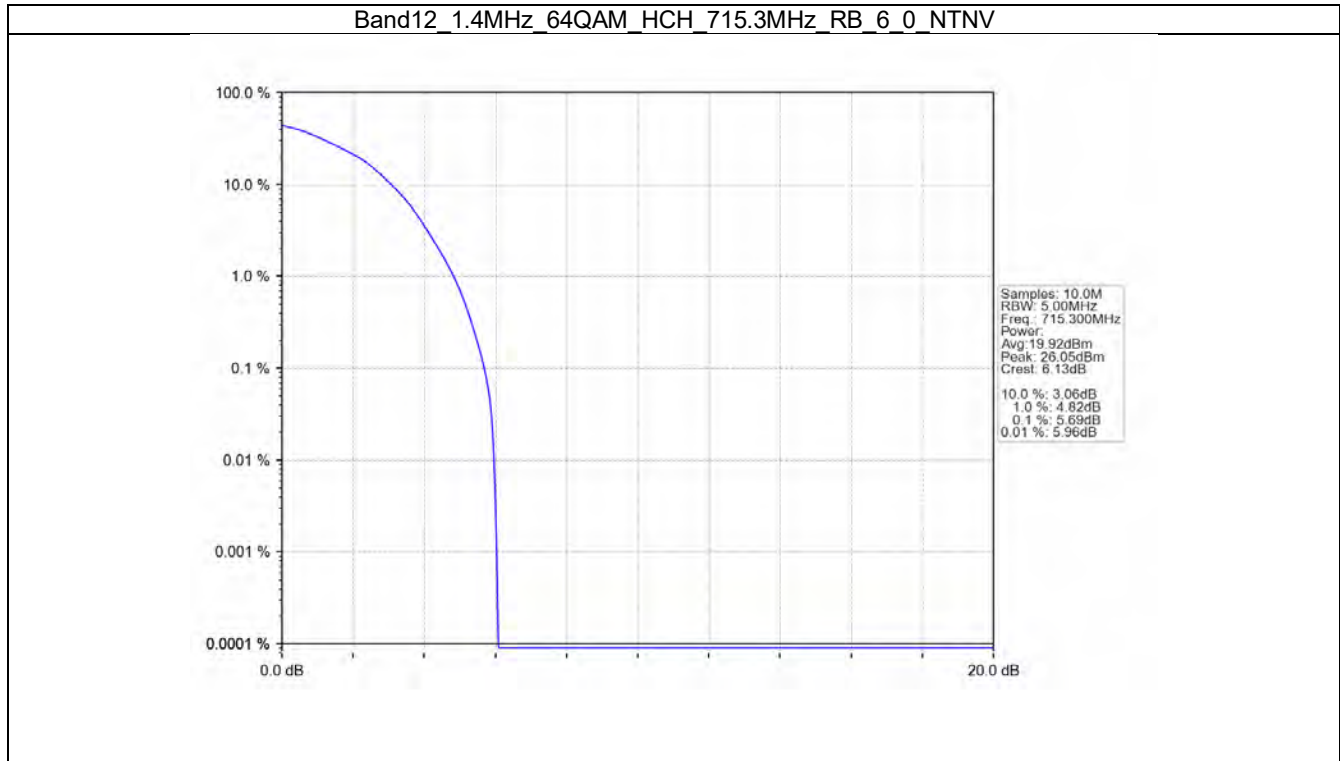
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4.2 B12_3MHz

4.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.04	<=13	Pass
	707.5	15	0	4.86	<=13	Pass
	714.5	15	0	4.44	<=13	Pass
16QAM	700.5	15	0	5.94	<=13	Pass
	707.5	15	0	5.73	<=13	Pass
	714.5	15	0	5.26	<=13	Pass
64QAM	700.5	15	0	6.41	<=13	Pass
	707.5	15	0	6.24	<=13	Pass
	714.5	15	0	5.85	<=13	Pass



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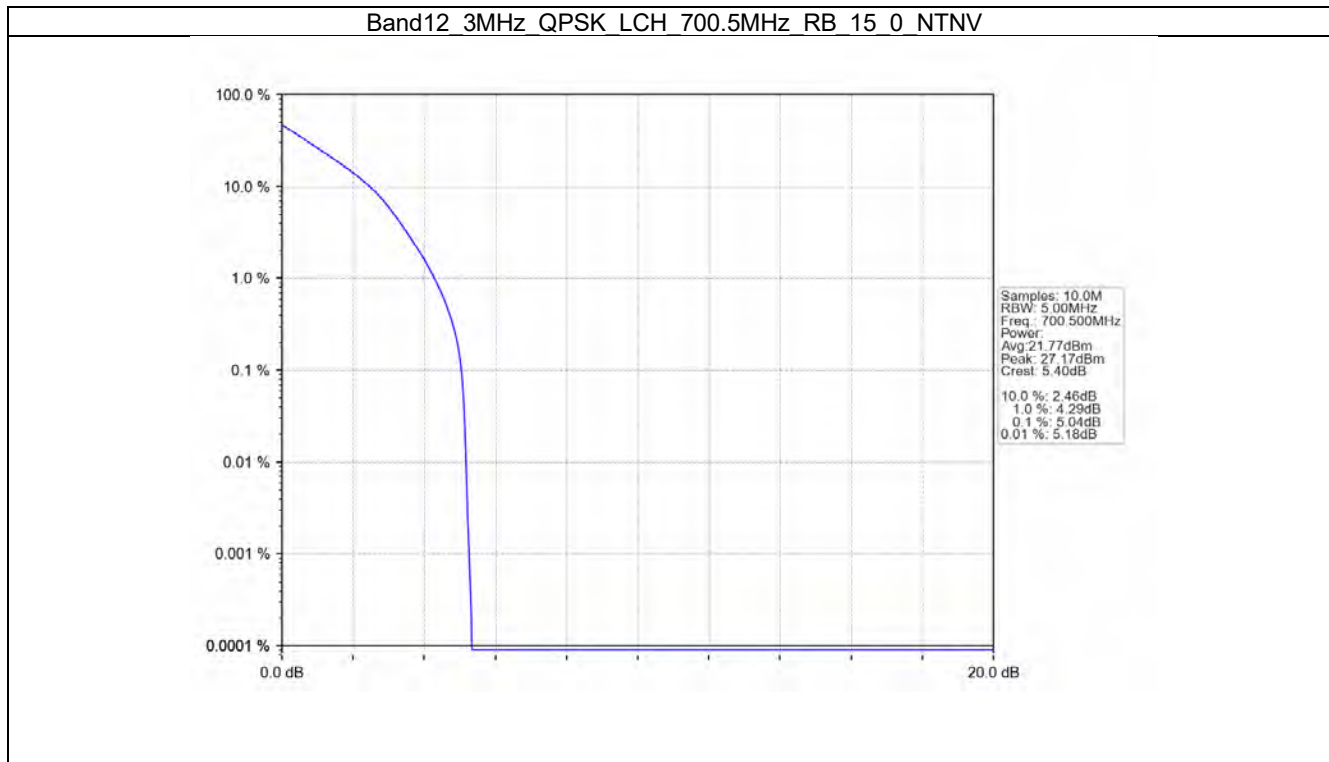
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4.2.2 Test Graph



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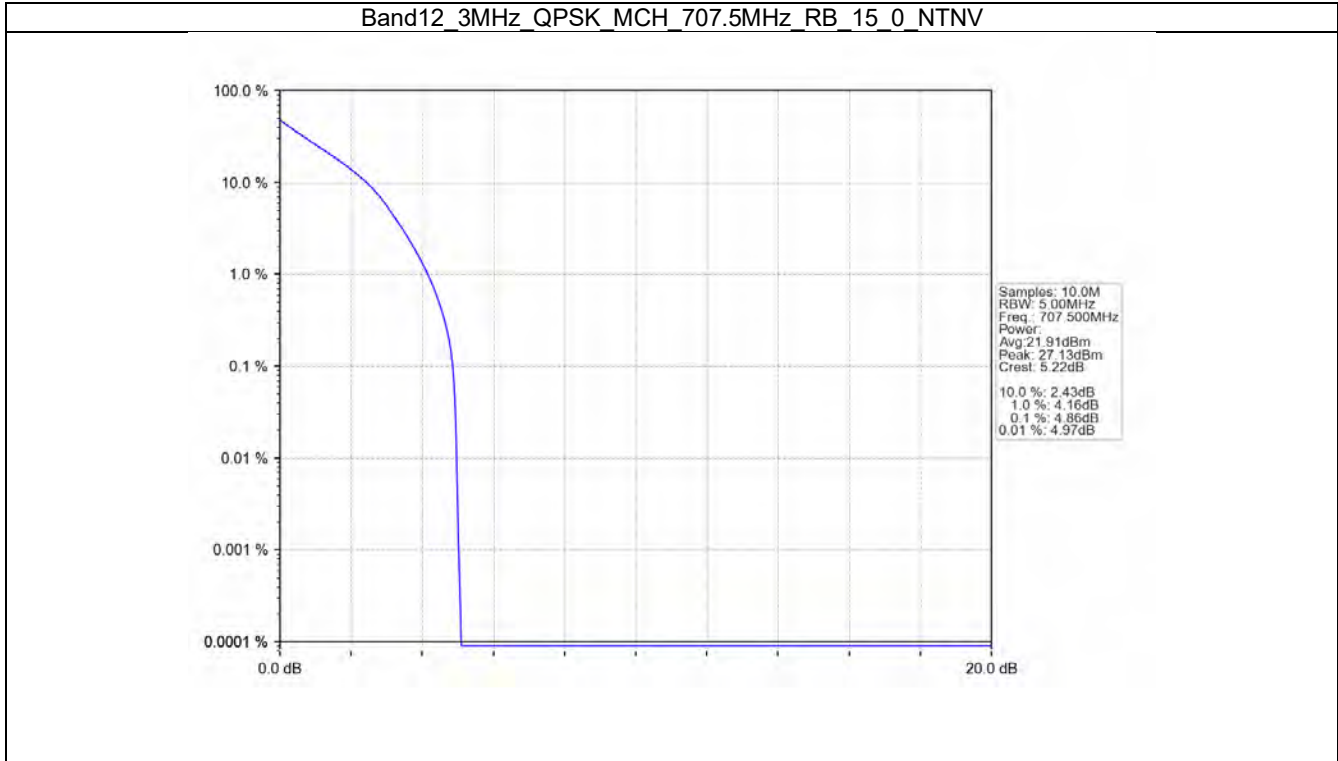
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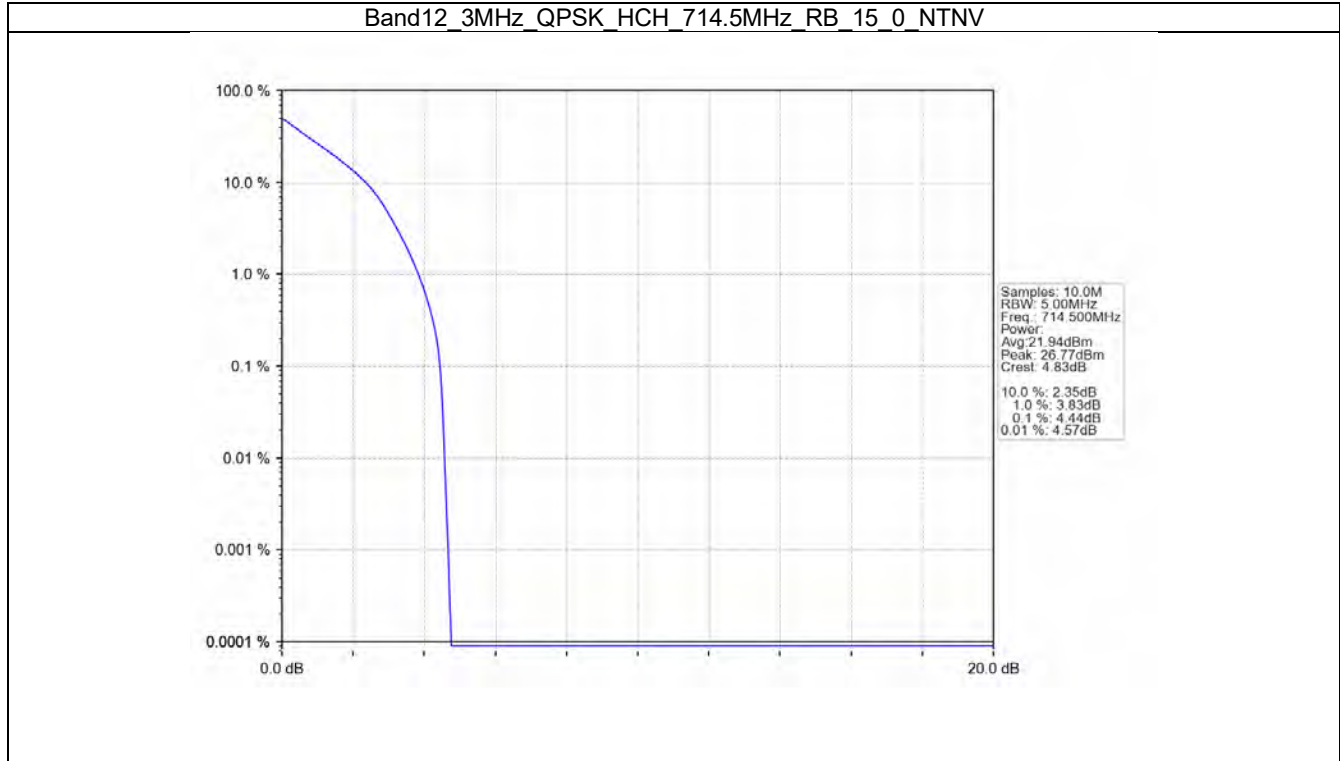


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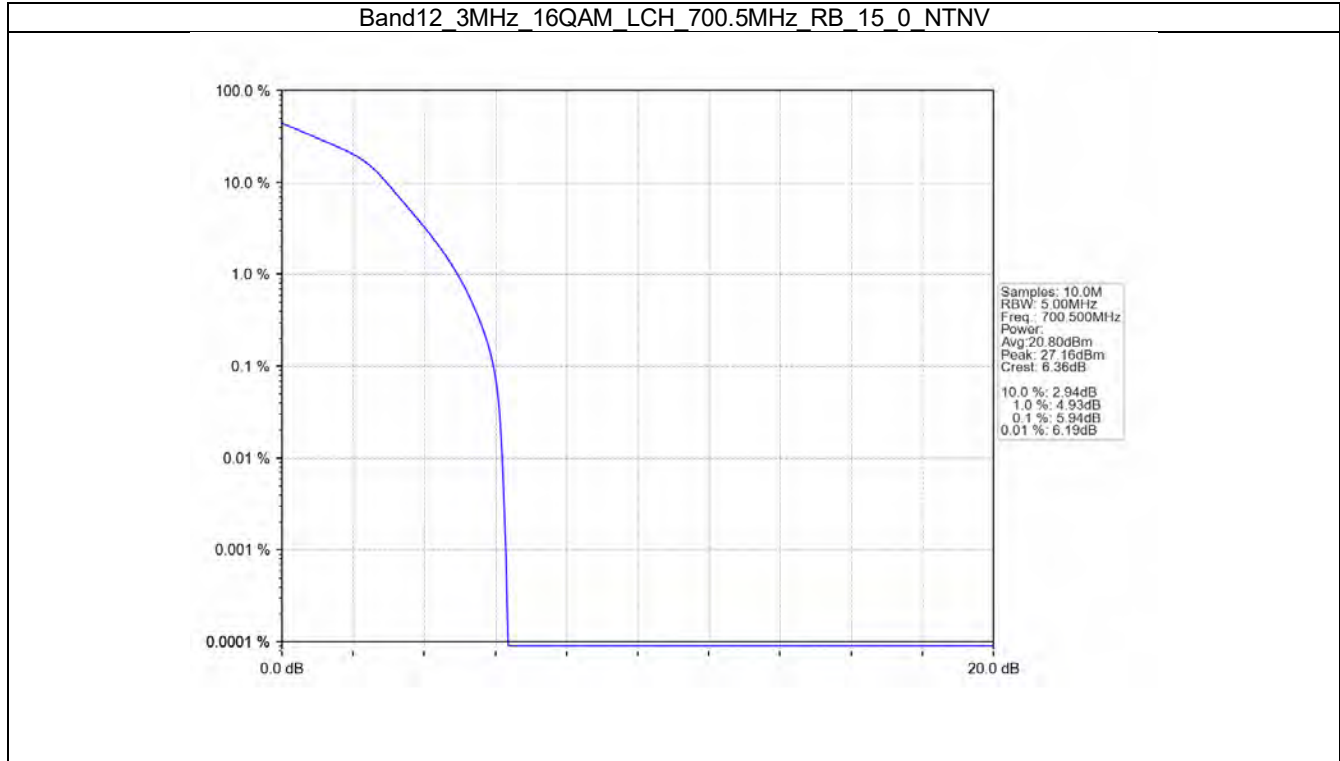


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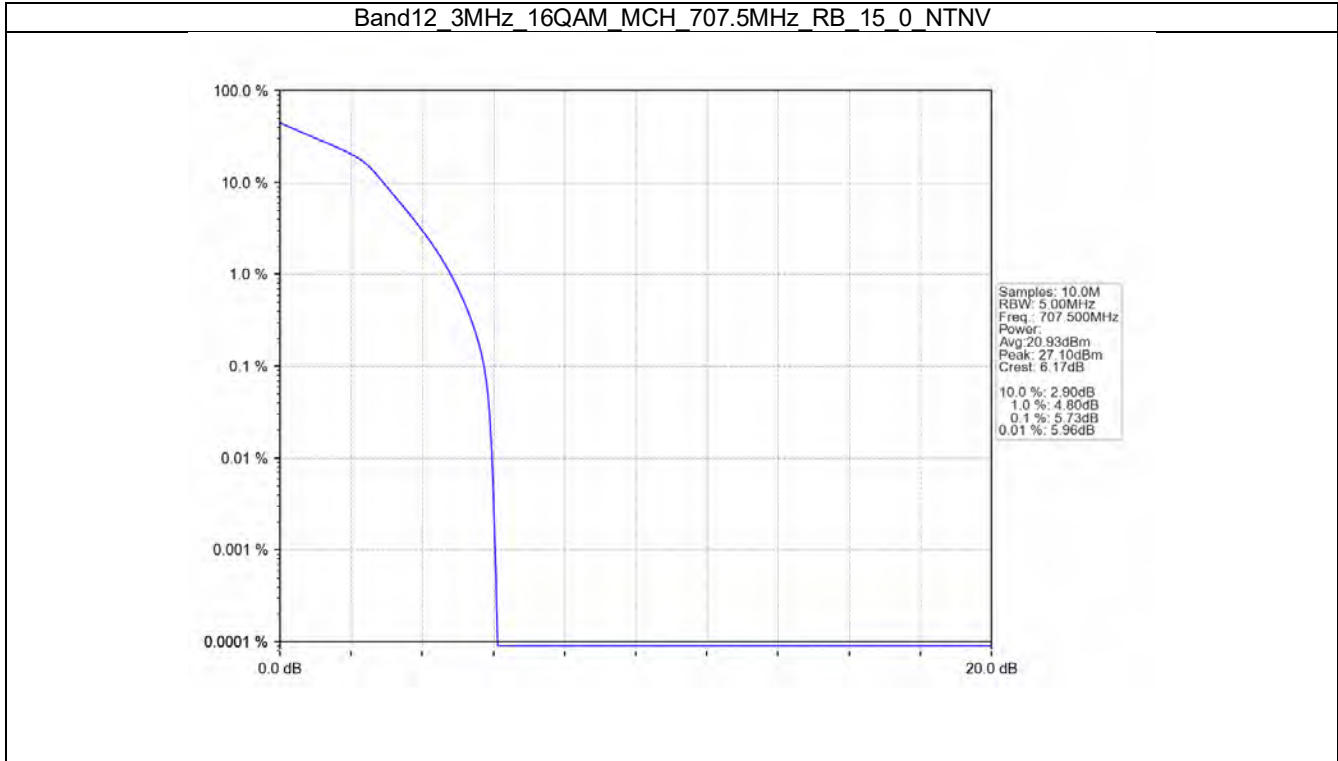


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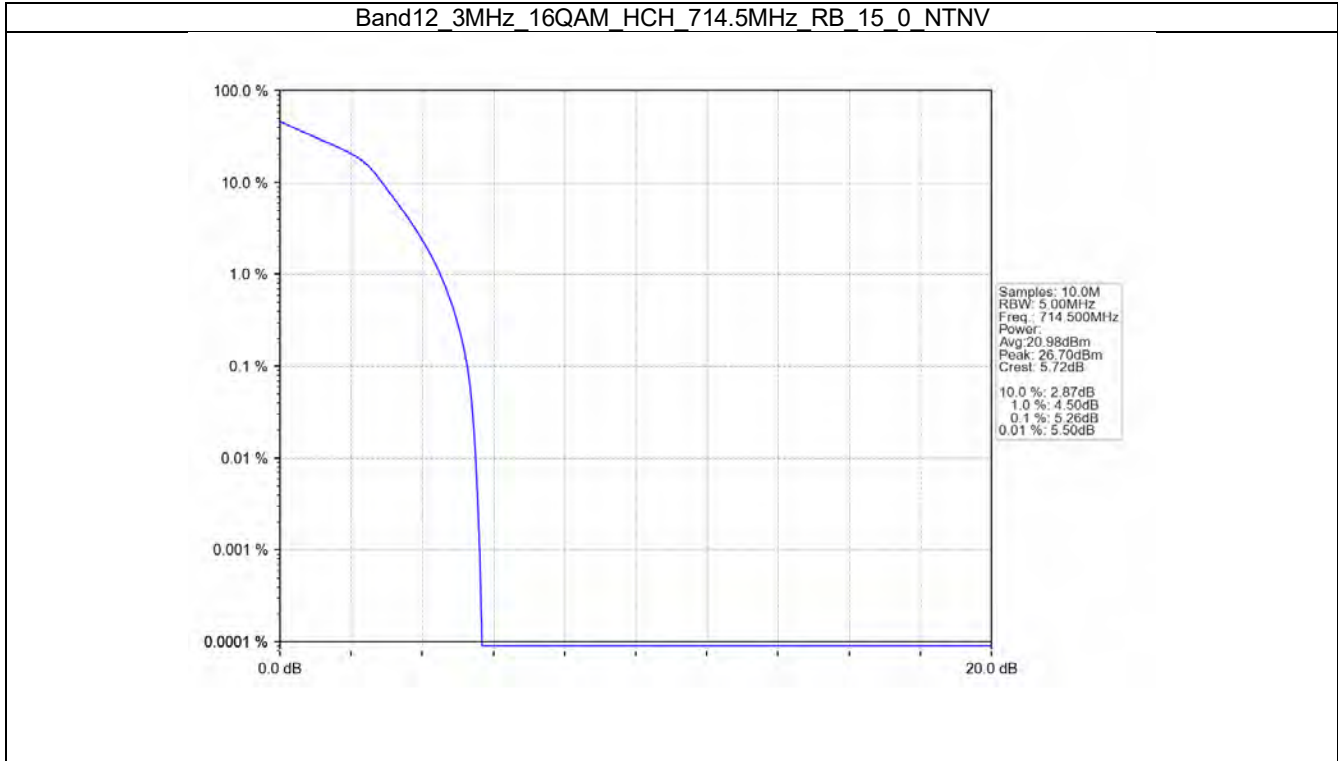


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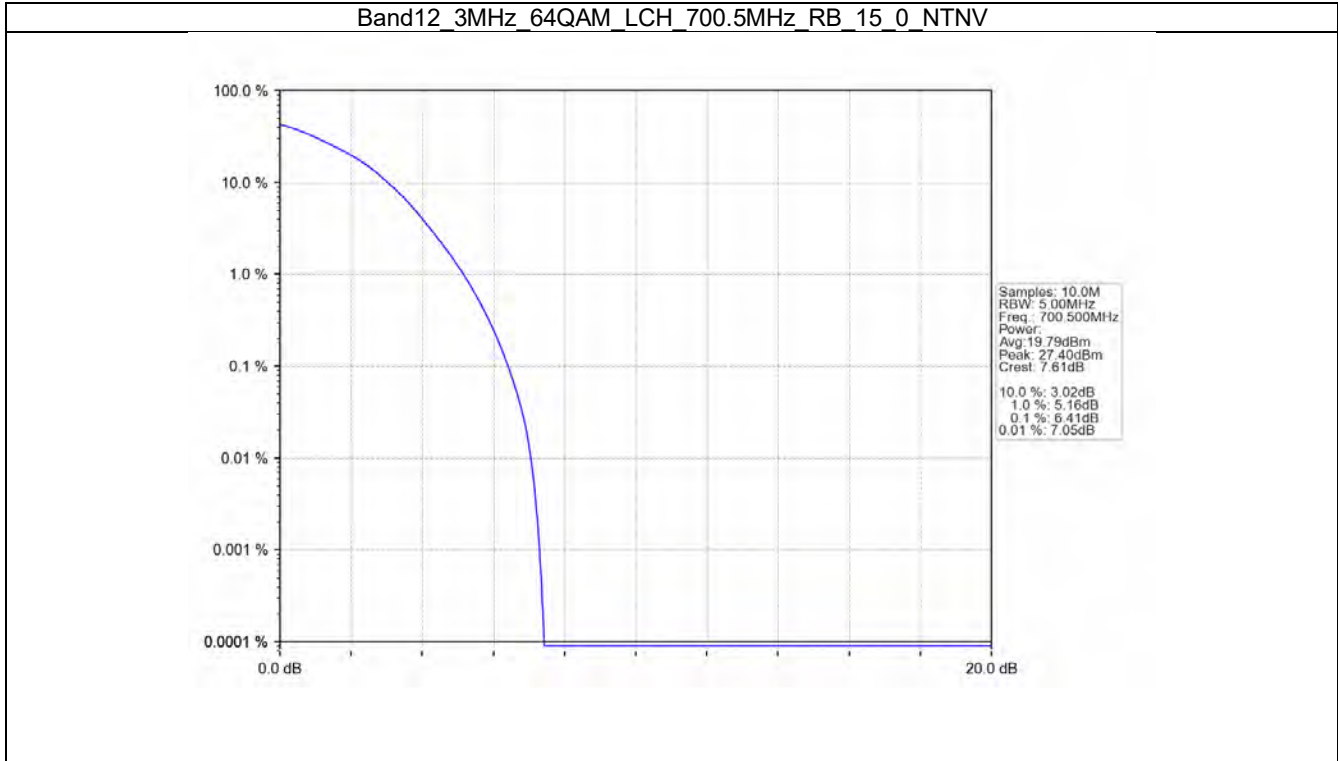


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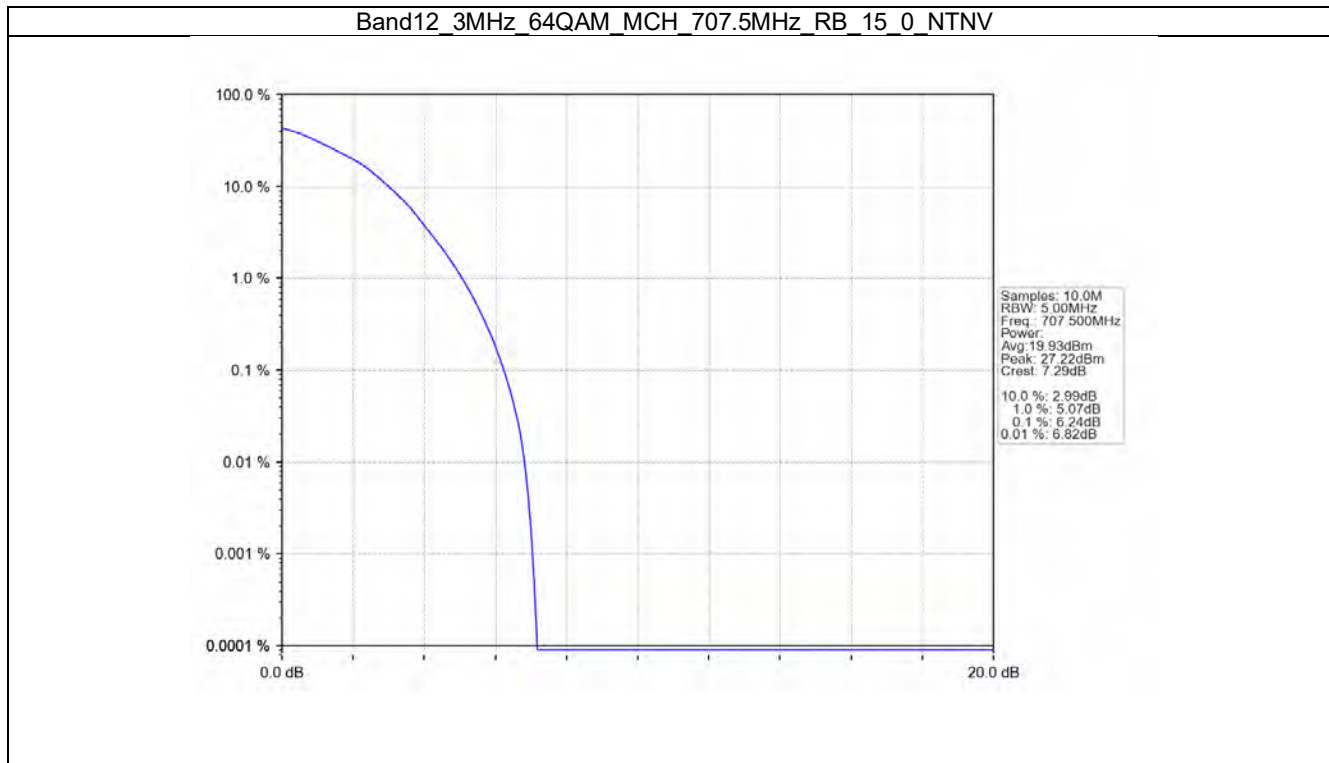
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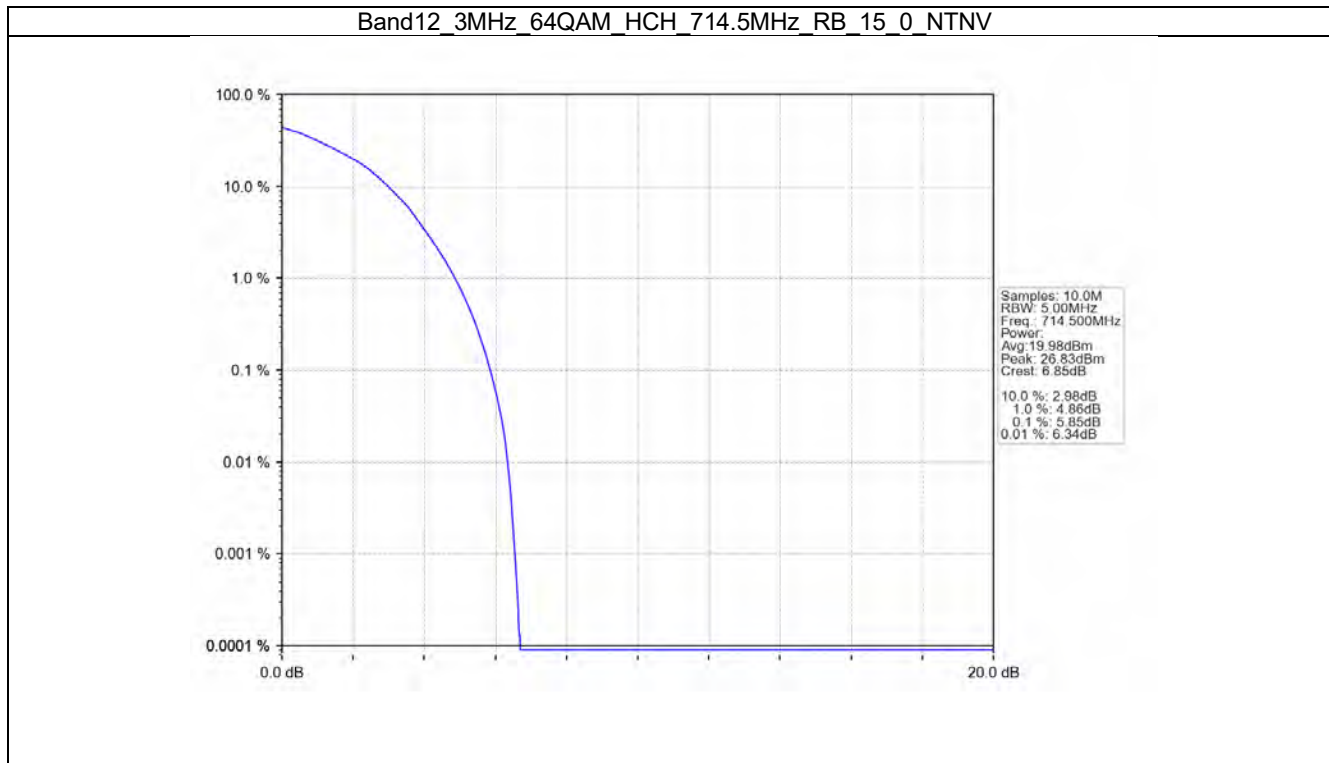
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4.3 B12_5MHz

4.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.14	<=13	Pass
	707.5	25	0	5.20	<=13	Pass
	713.5	25	0	5.00	<=13	Pass
16QAM	701.5	25	0	5.92	<=13	Pass
	707.5	25	0	5.99	<=13	Pass
	713.5	25	0	5.78	<=13	Pass
64QAM	701.5	25	0	6.32	<=13	Pass
	707.5	25	0	6.35	<=13	Pass
	713.5	25	0	6.18	<=13	Pass



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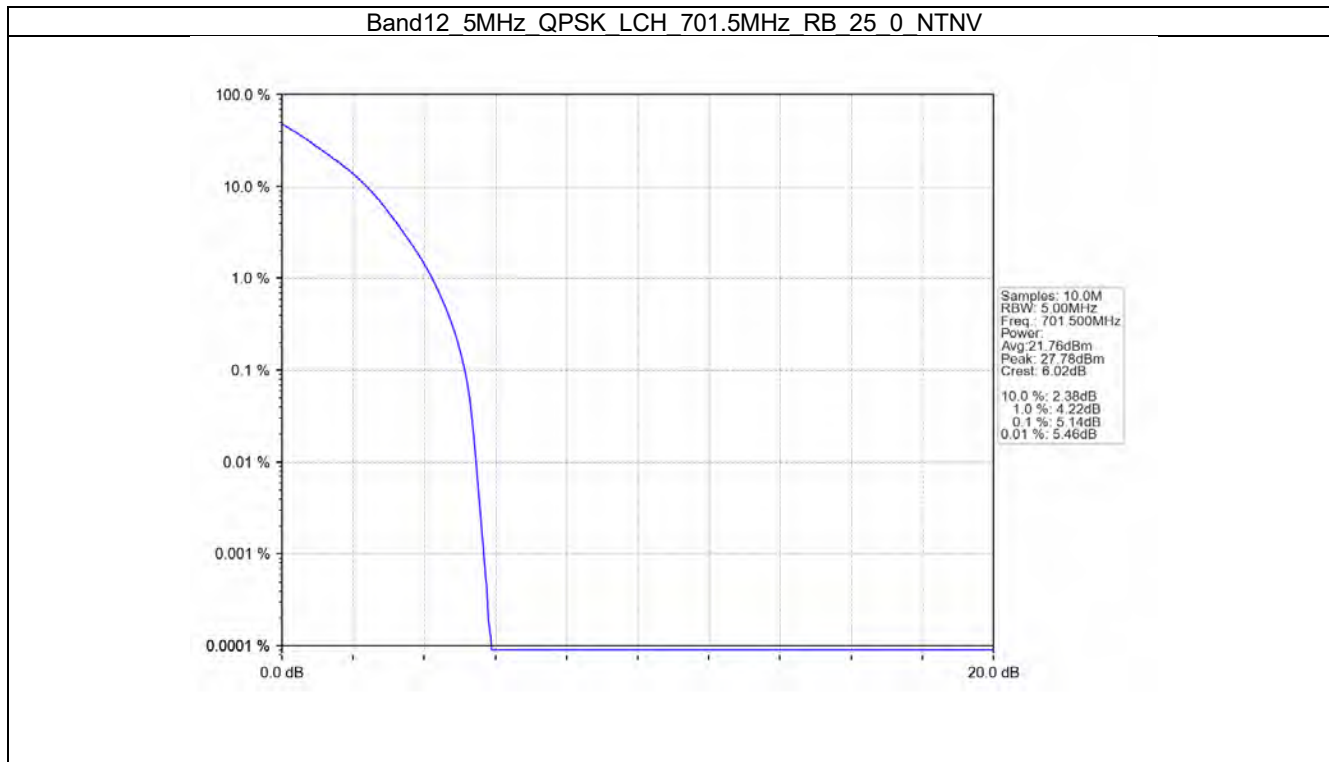
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4.3.2 Test Graph



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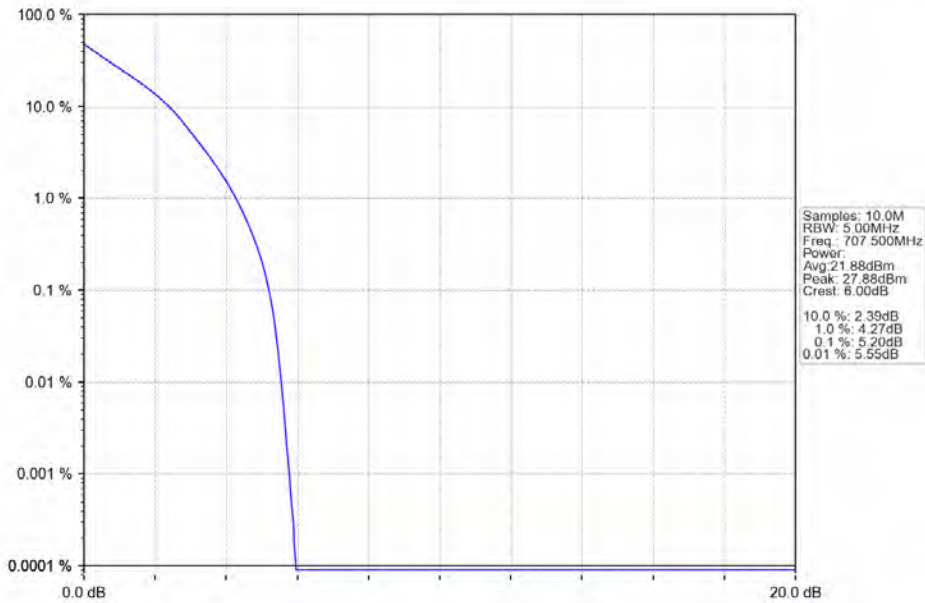
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Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



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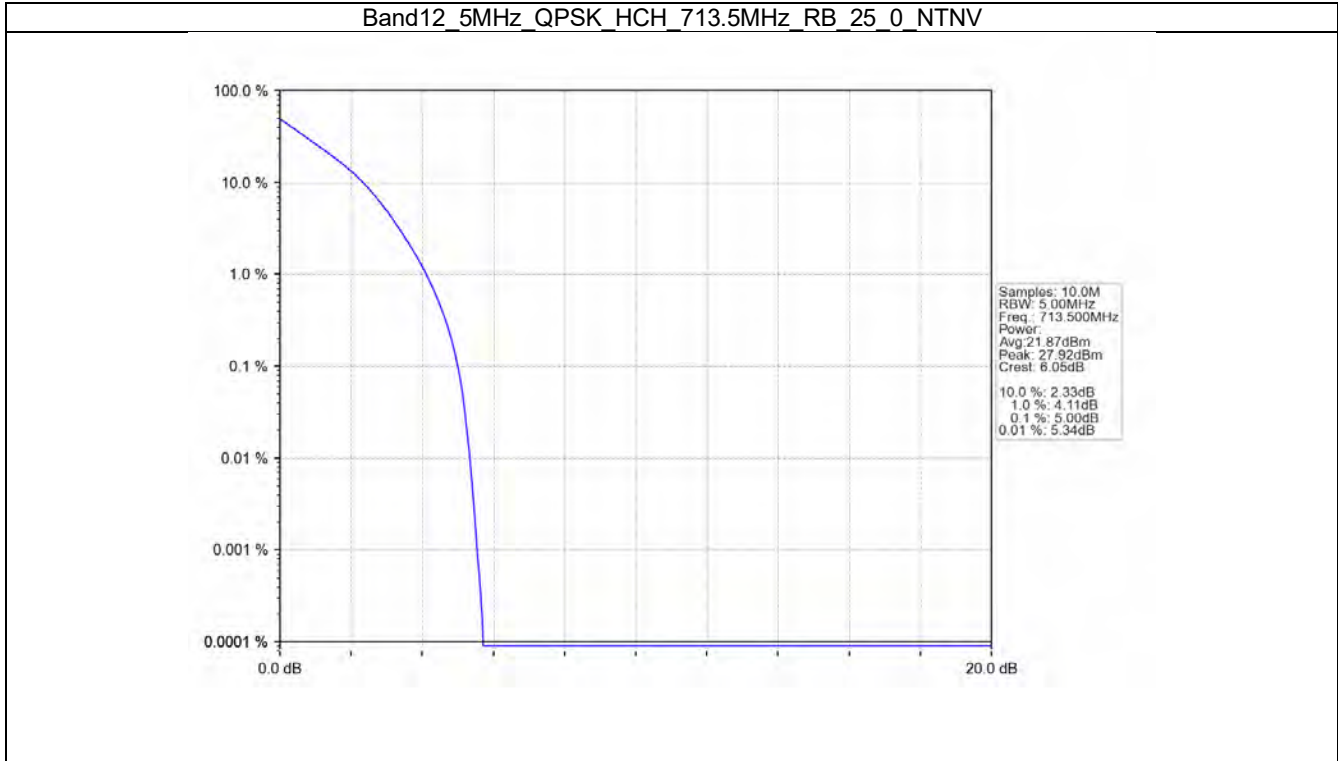
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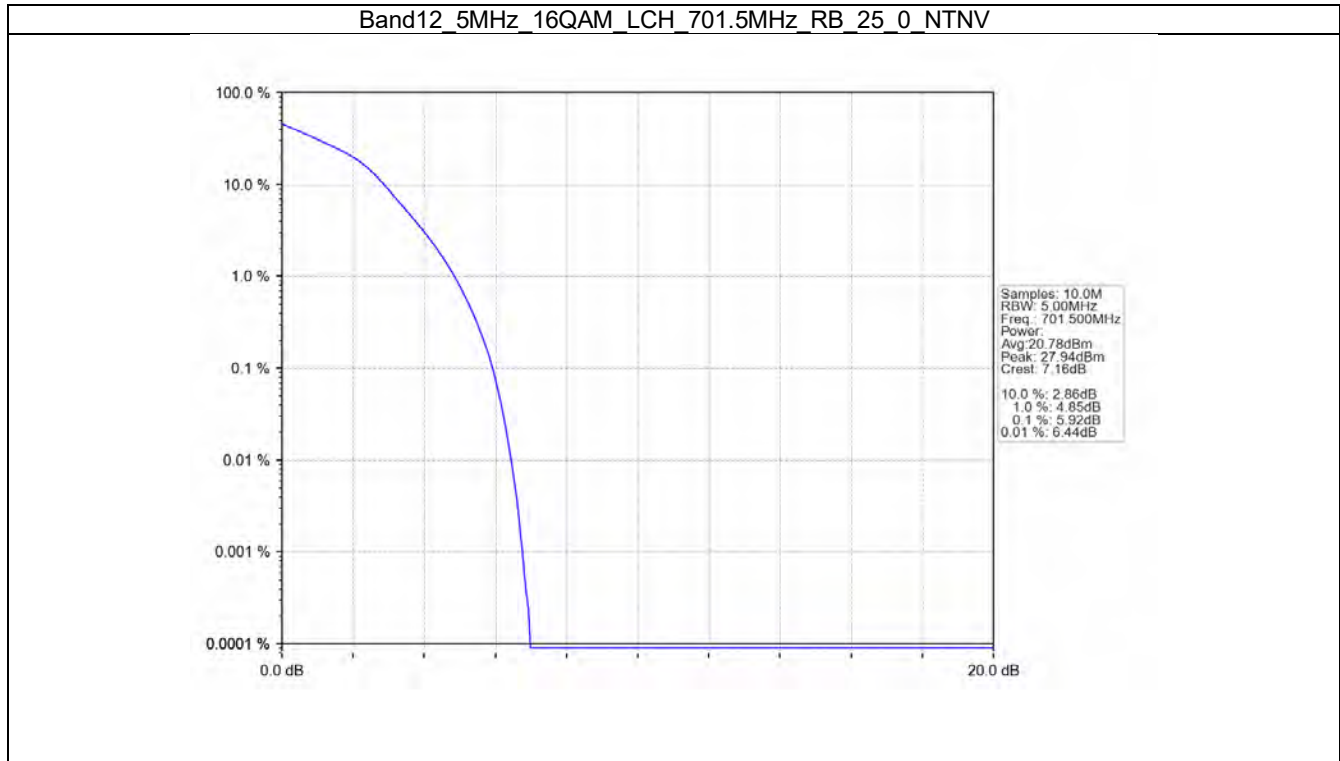


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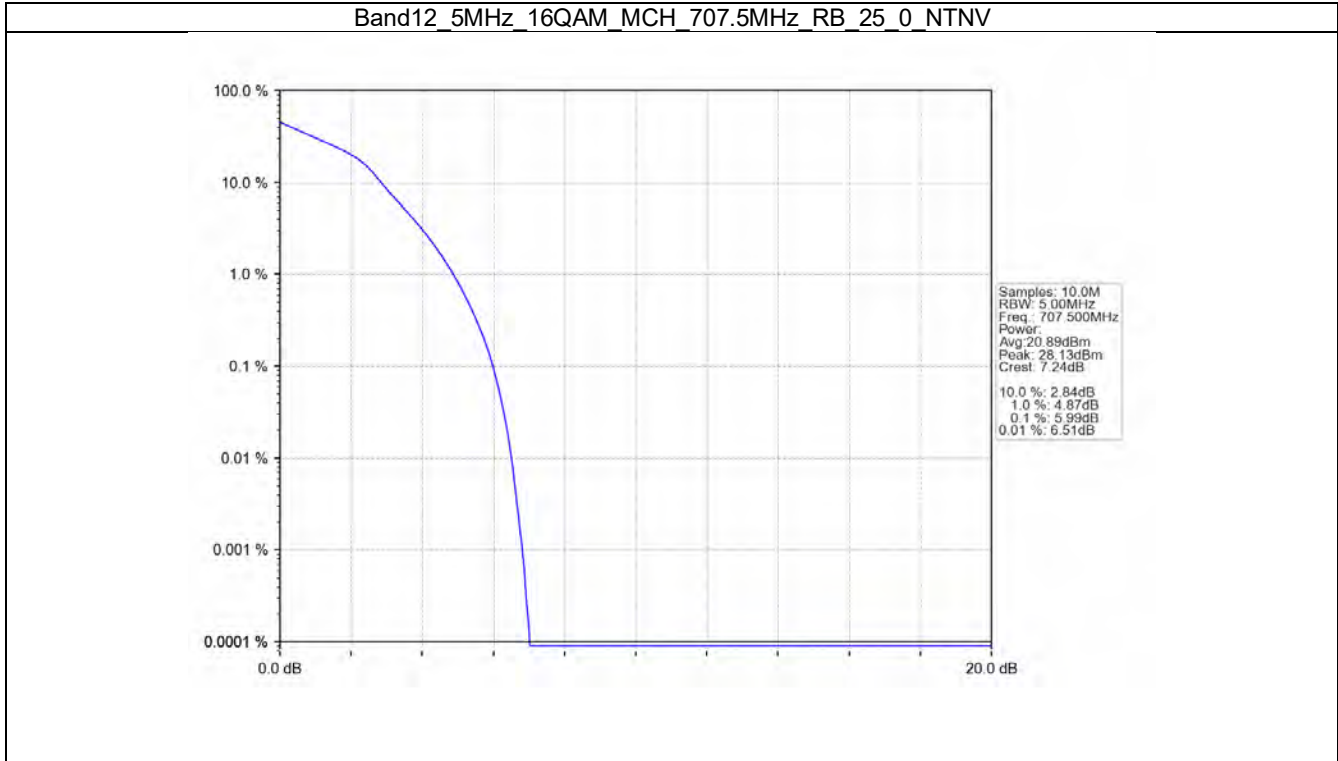


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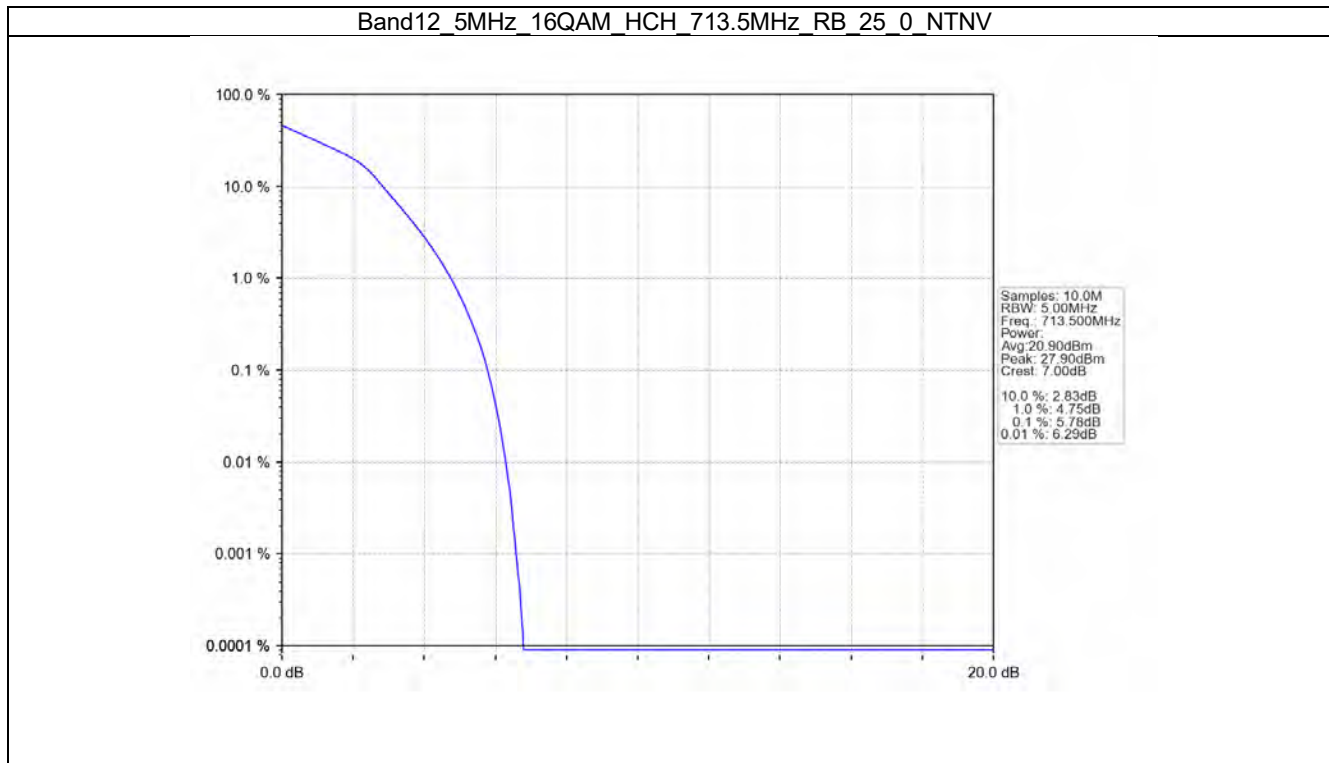
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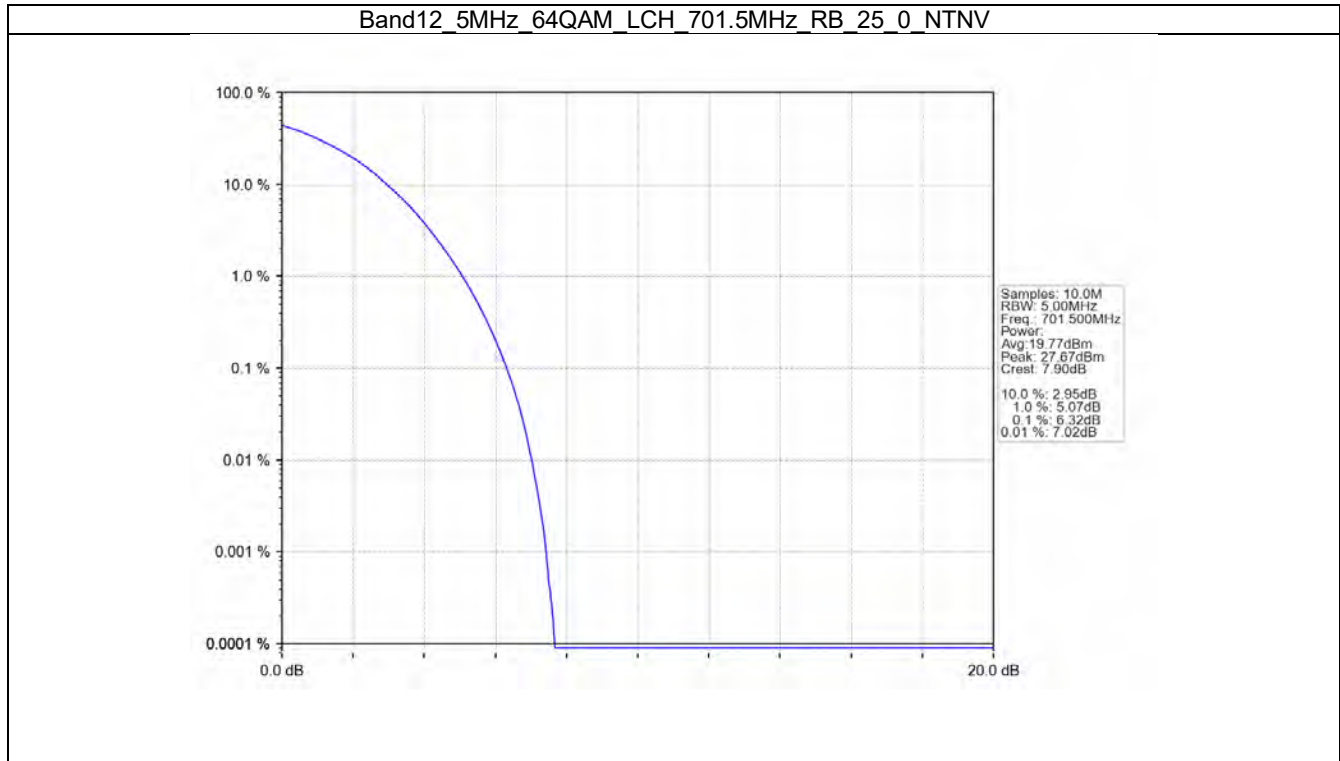


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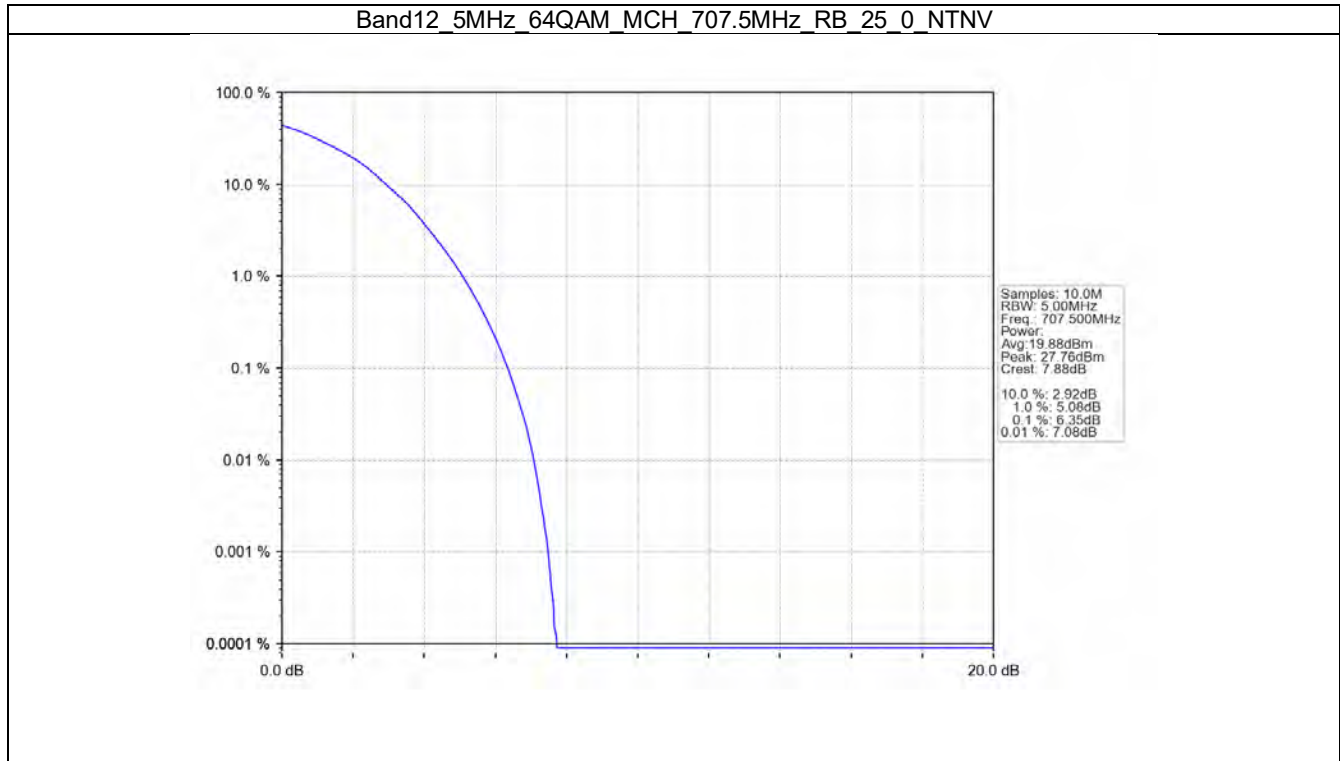


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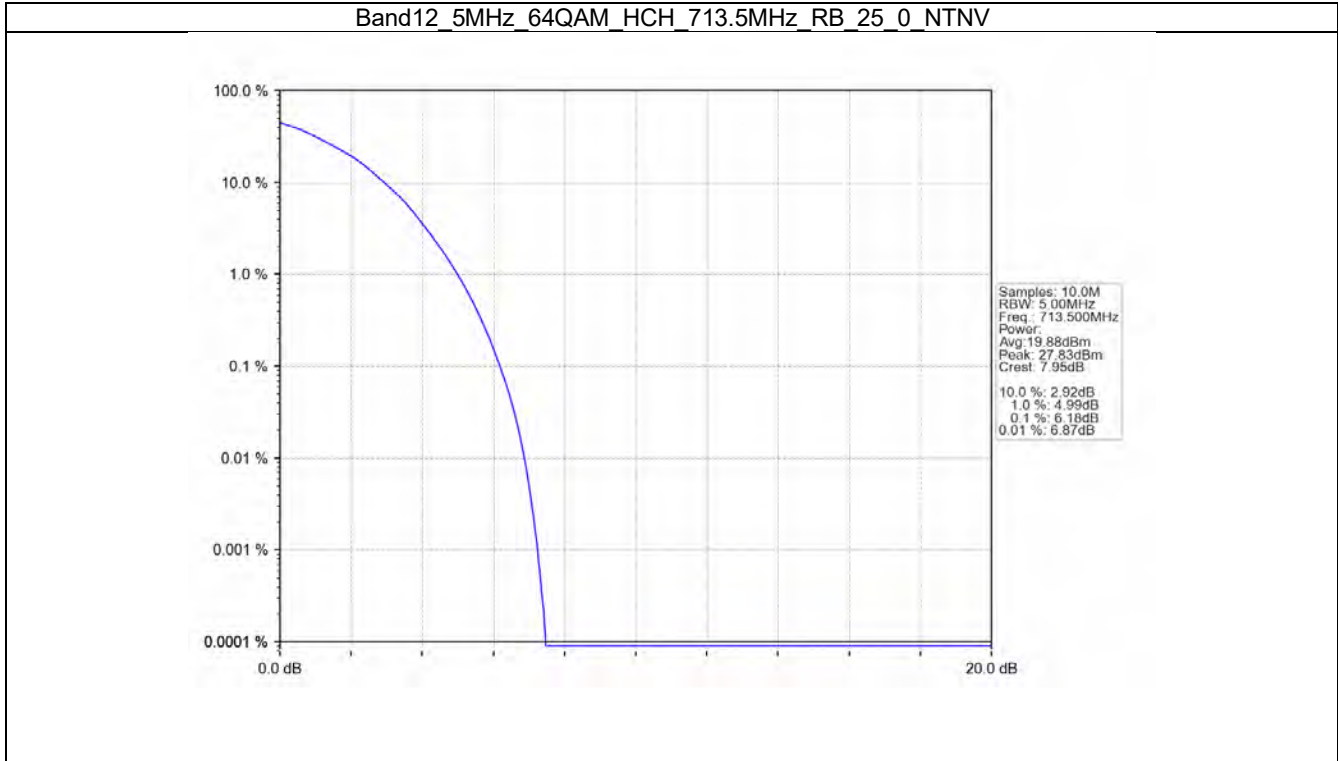


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4.4 B12_10MHz

4.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	4.93	<=13	Pass
	707.5	50	0	5.16	<=13	Pass
	711	50	0	5.10	<=13	Pass
16QAM	704	50	0	5.76	<=13	Pass
	707.5	50	0	5.91	<=13	Pass
	711	50	0	5.88	<=13	Pass
64QAM	704	50	0	6.15	<=13	Pass
	707.5	50	0	6.31	<=13	Pass
	711	50	0	6.29	<=13	Pass



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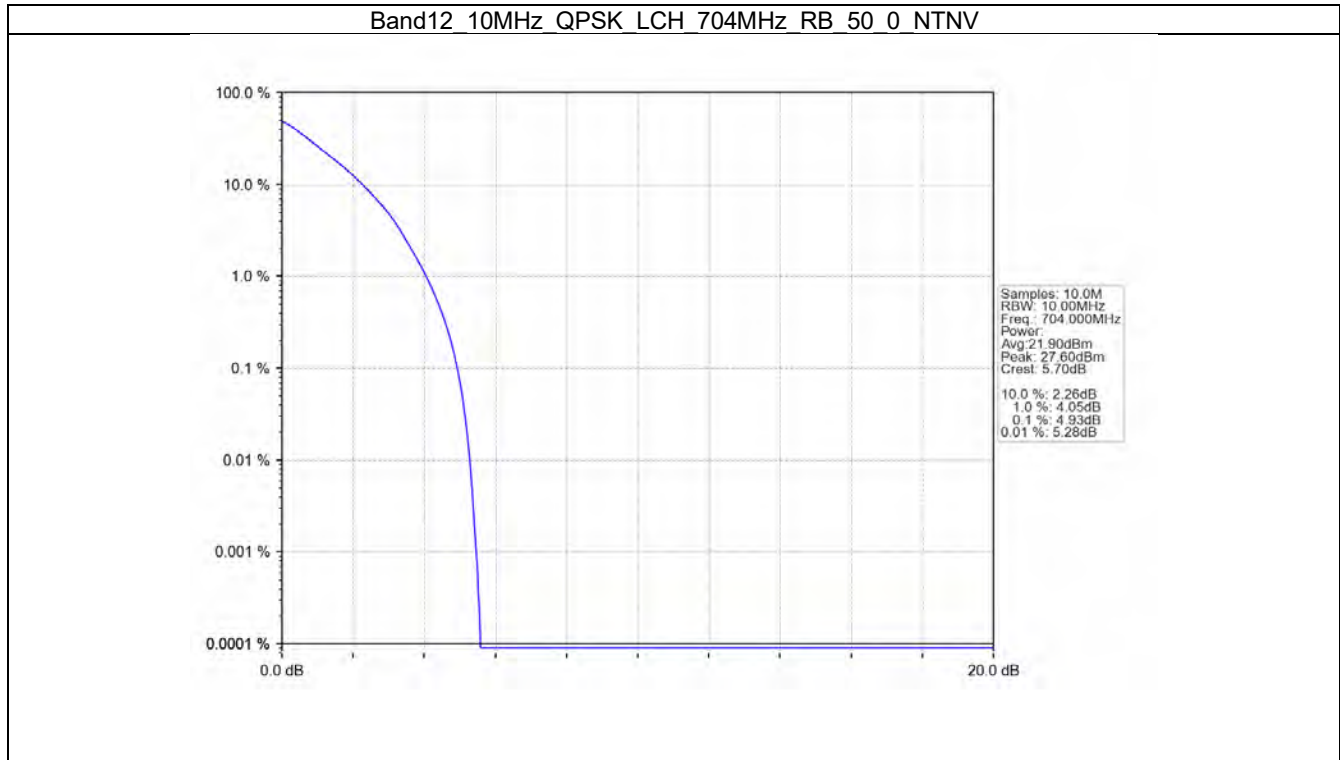
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4.4.2 Test Graph



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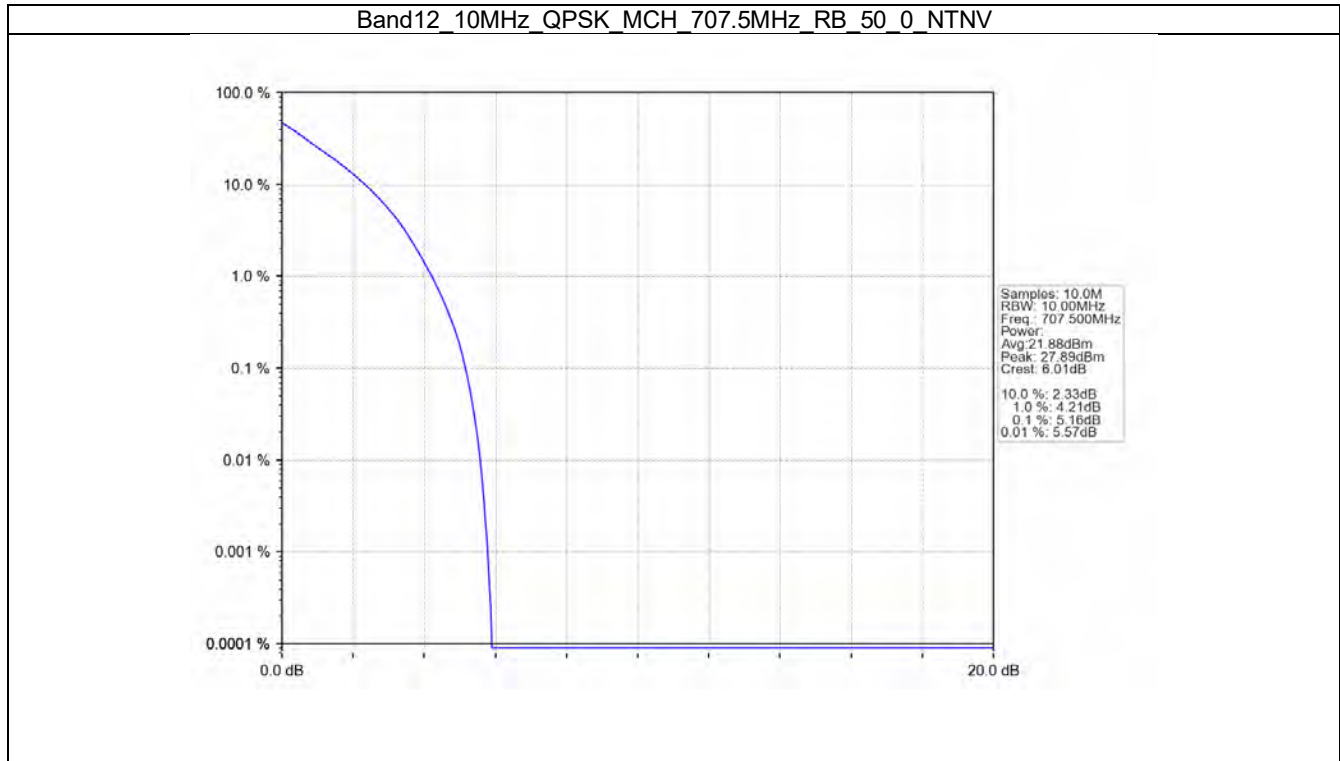
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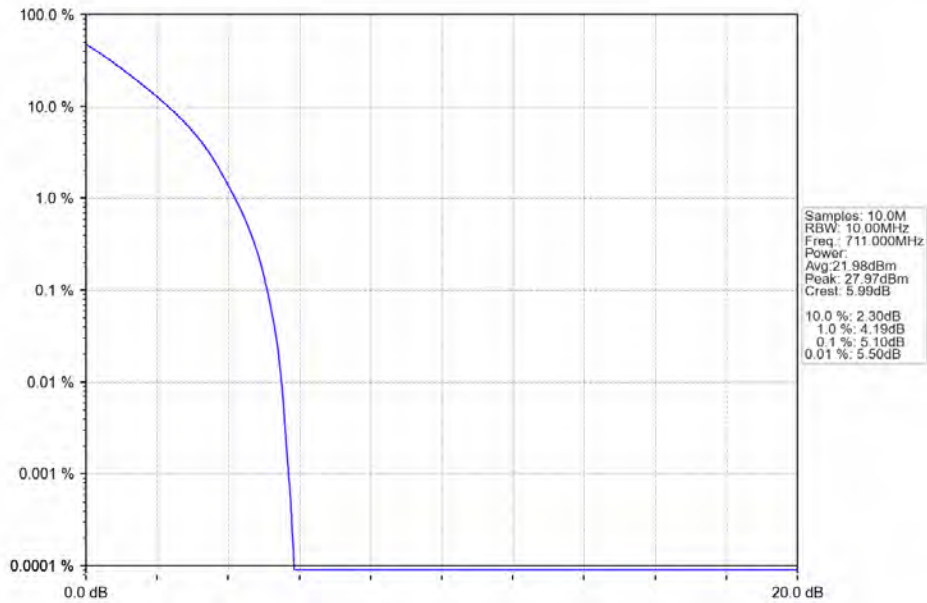
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Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



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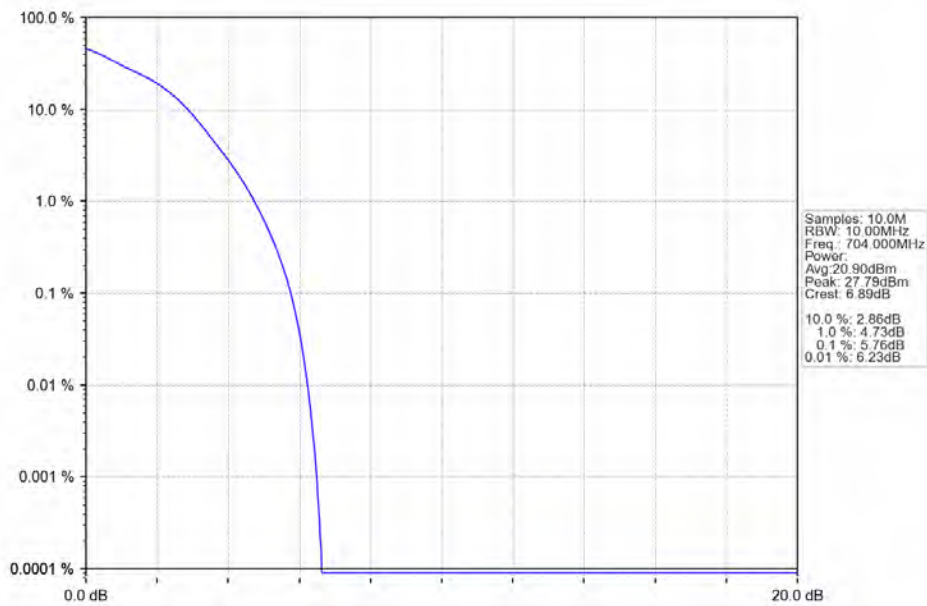
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Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



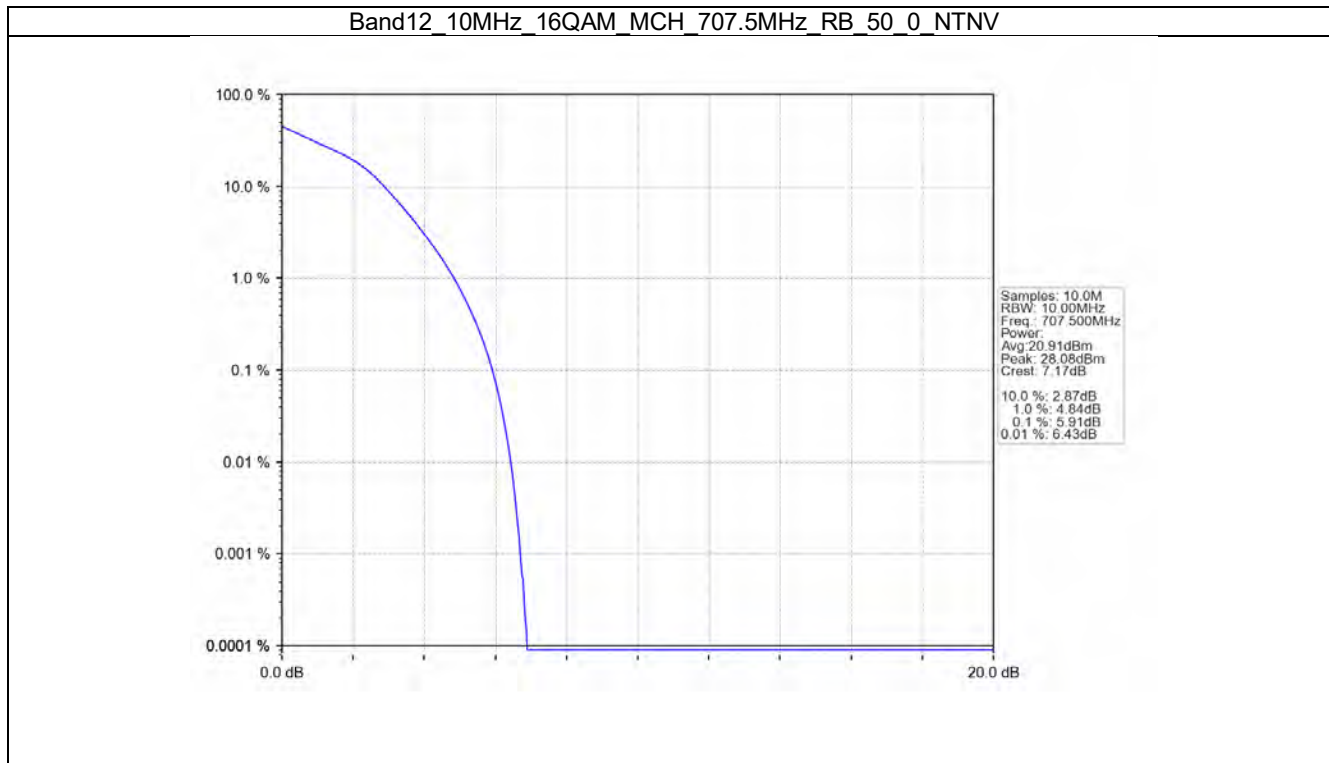
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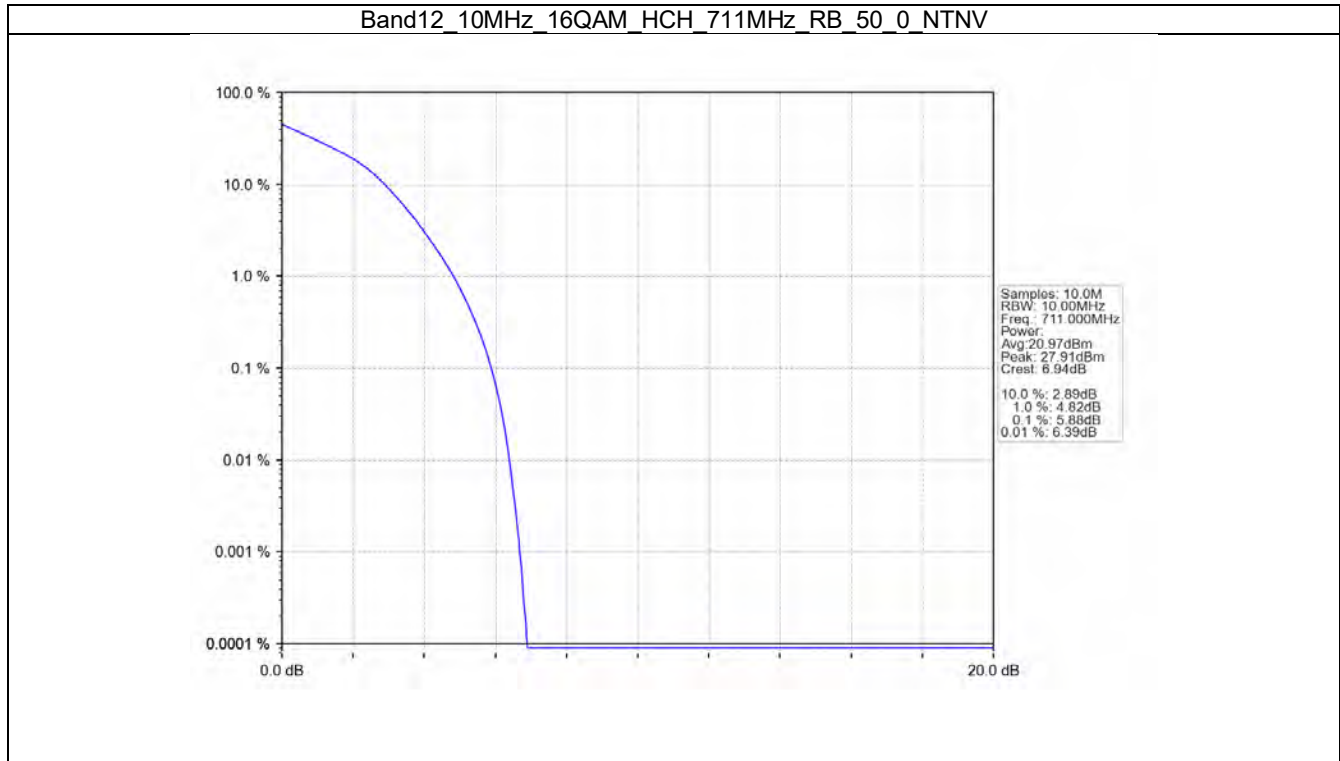


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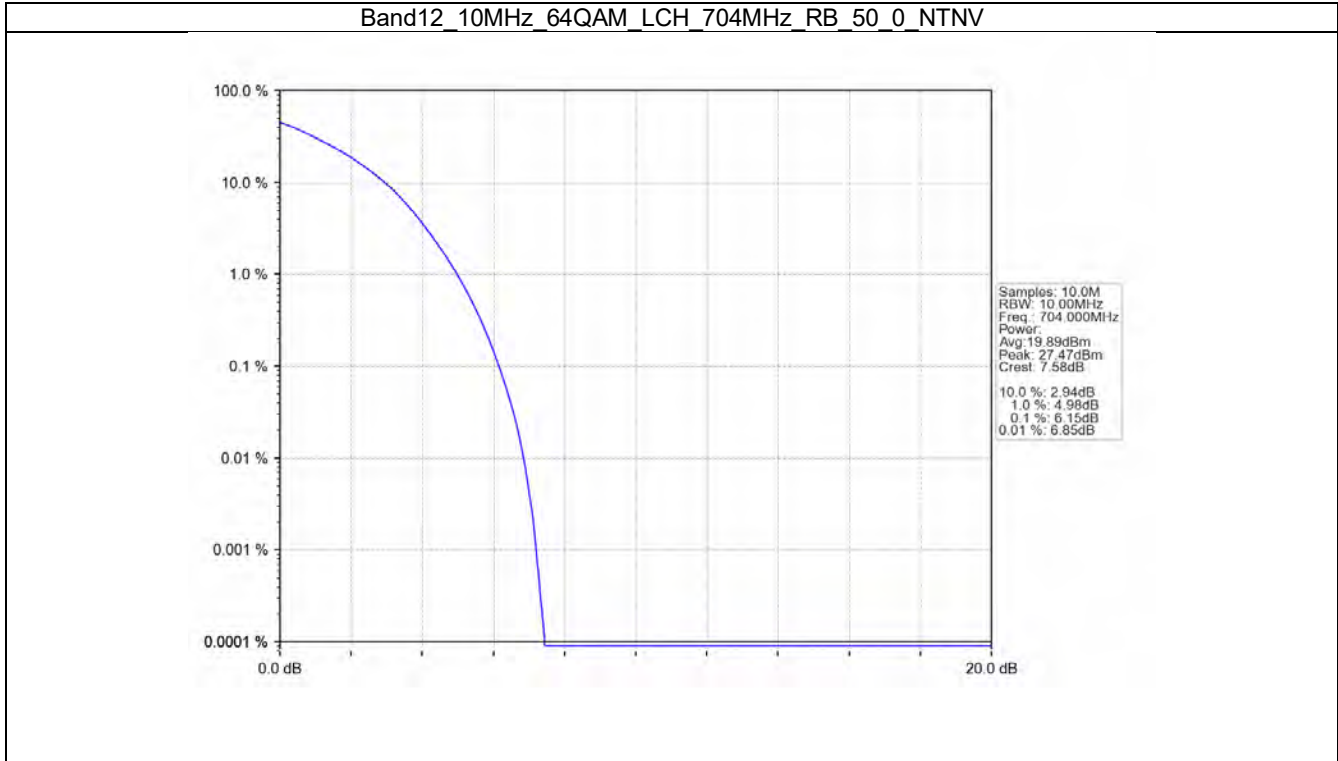
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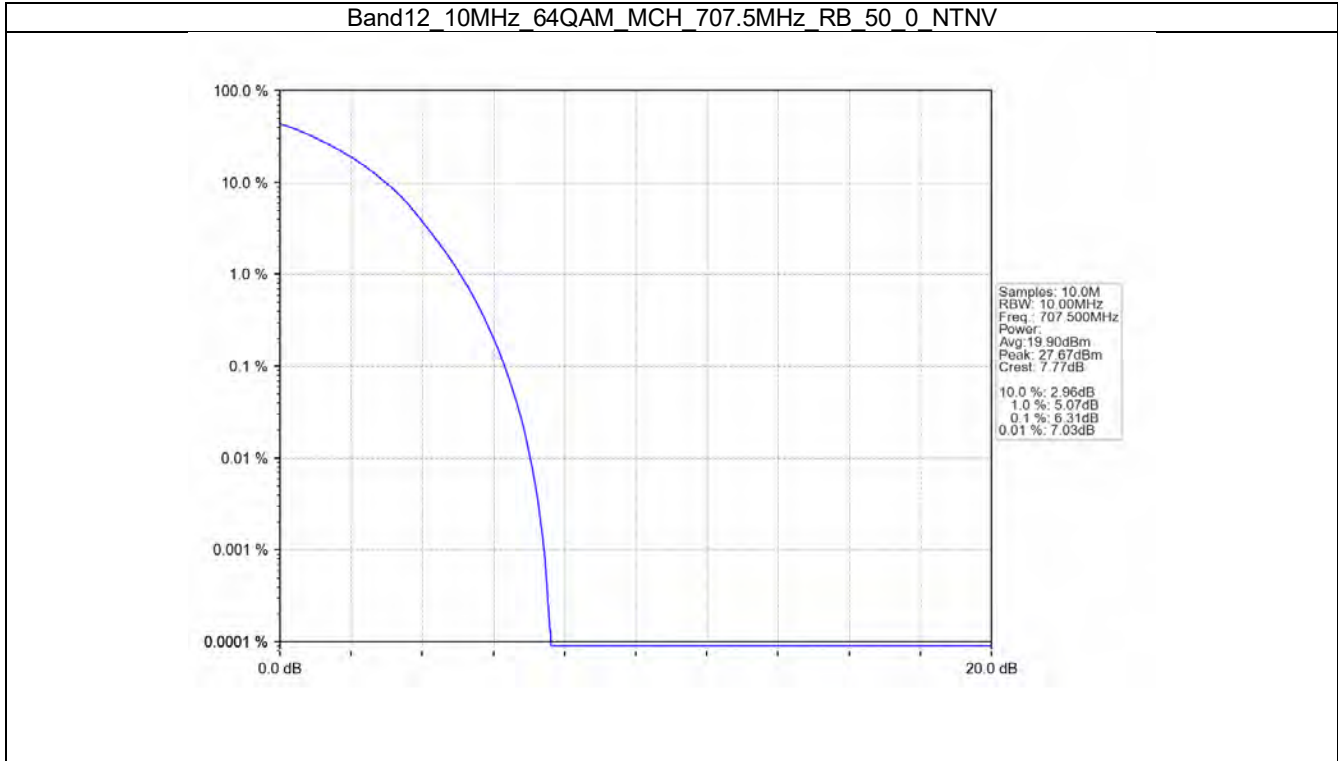


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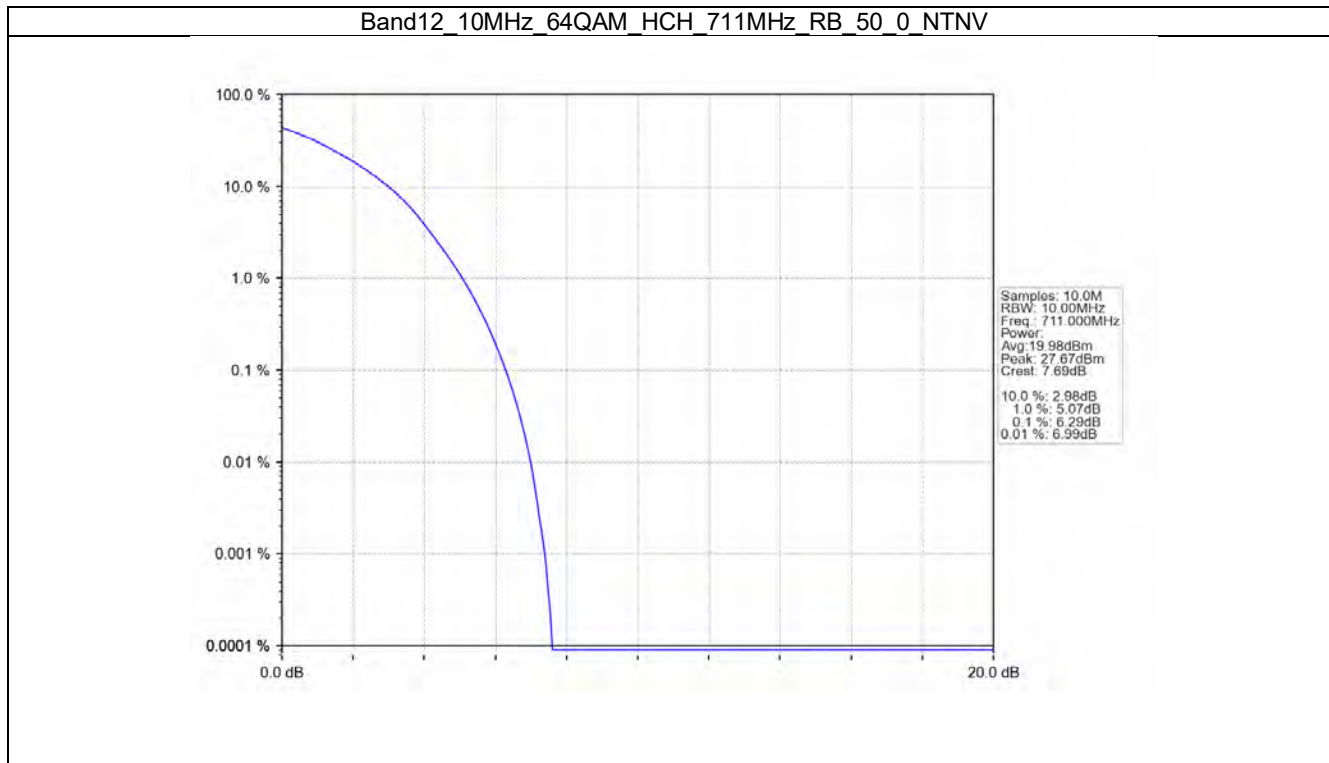
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5. Spurious Emission & Band Edges

5.1 B12_1.4MHz

5.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		715.3	1	0	Refer To Test Graph	
				5	Refer To Test Graph	
			6	0	Refer To Test Graph	
16QAM	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		715.3	1	0	Refer To Test Graph	
				5	Refer To Test Graph	
			6	0	Refer To Test Graph	
64QAM	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		715.3	1	0	Refer To Test Graph	
				5	Refer To Test Graph	
			6	0	Refer To Test Graph	



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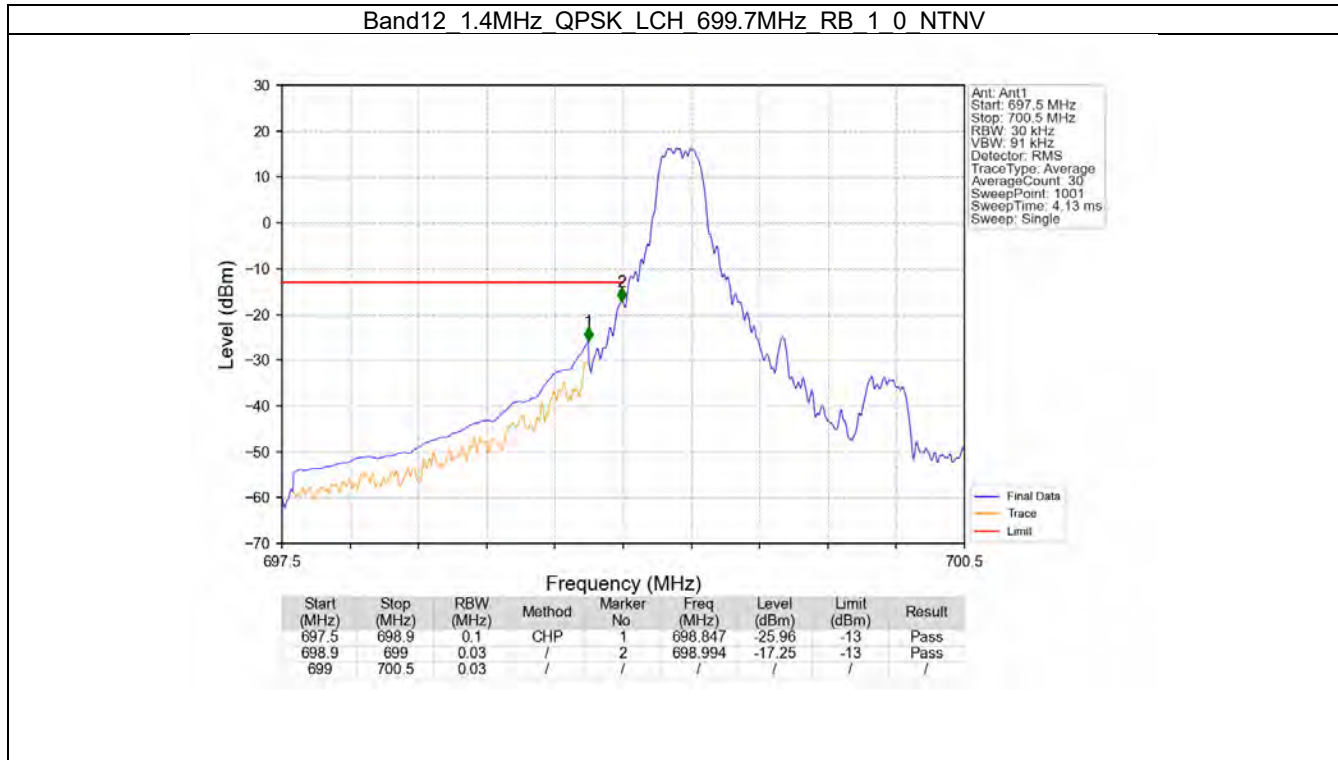
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5.1.2 Test Graph



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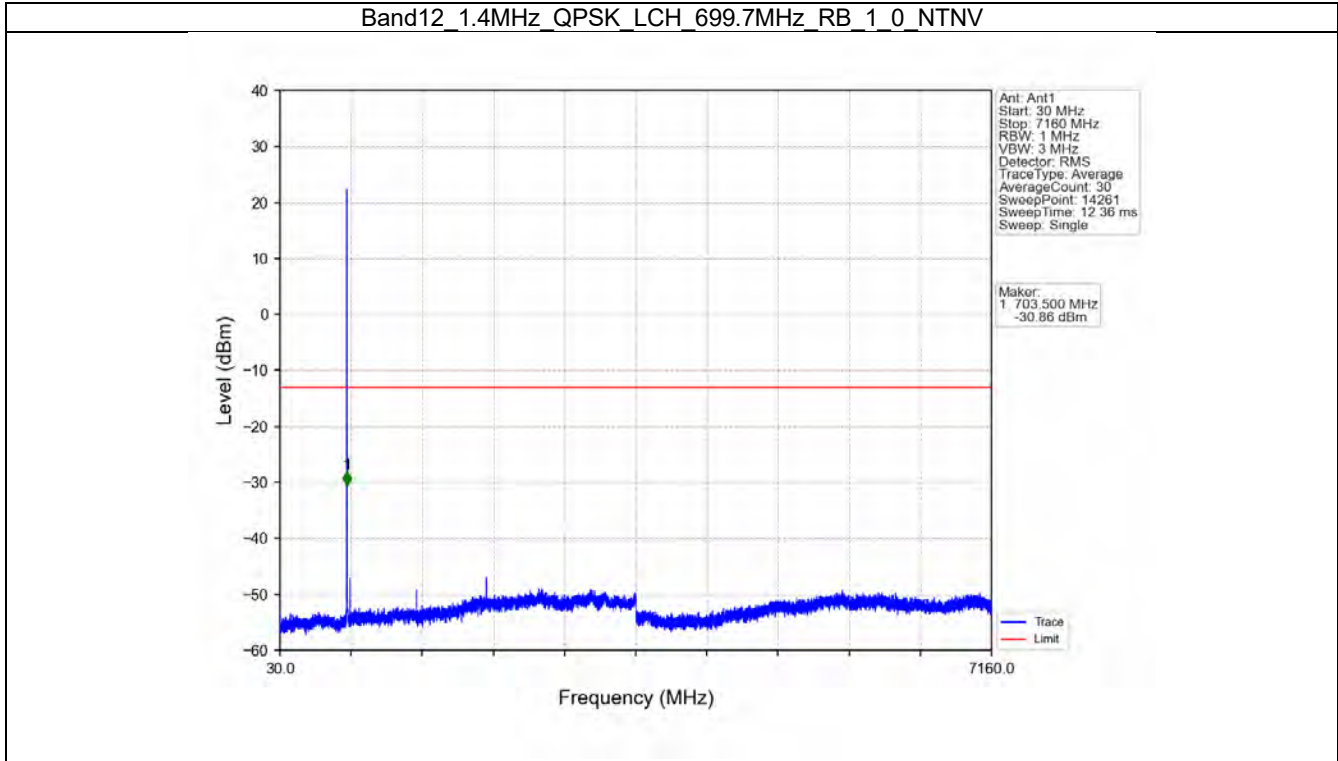


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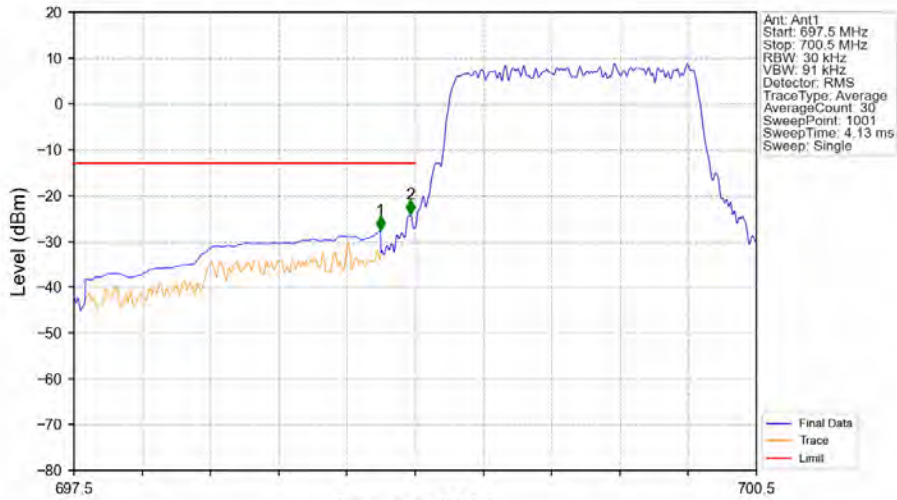
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Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-27.67	-13	Pass
698.9	699	0.03	/	2	698.979	-24.17	-13	Pass
699	700.5	0.03	/	/	/	/	/	/



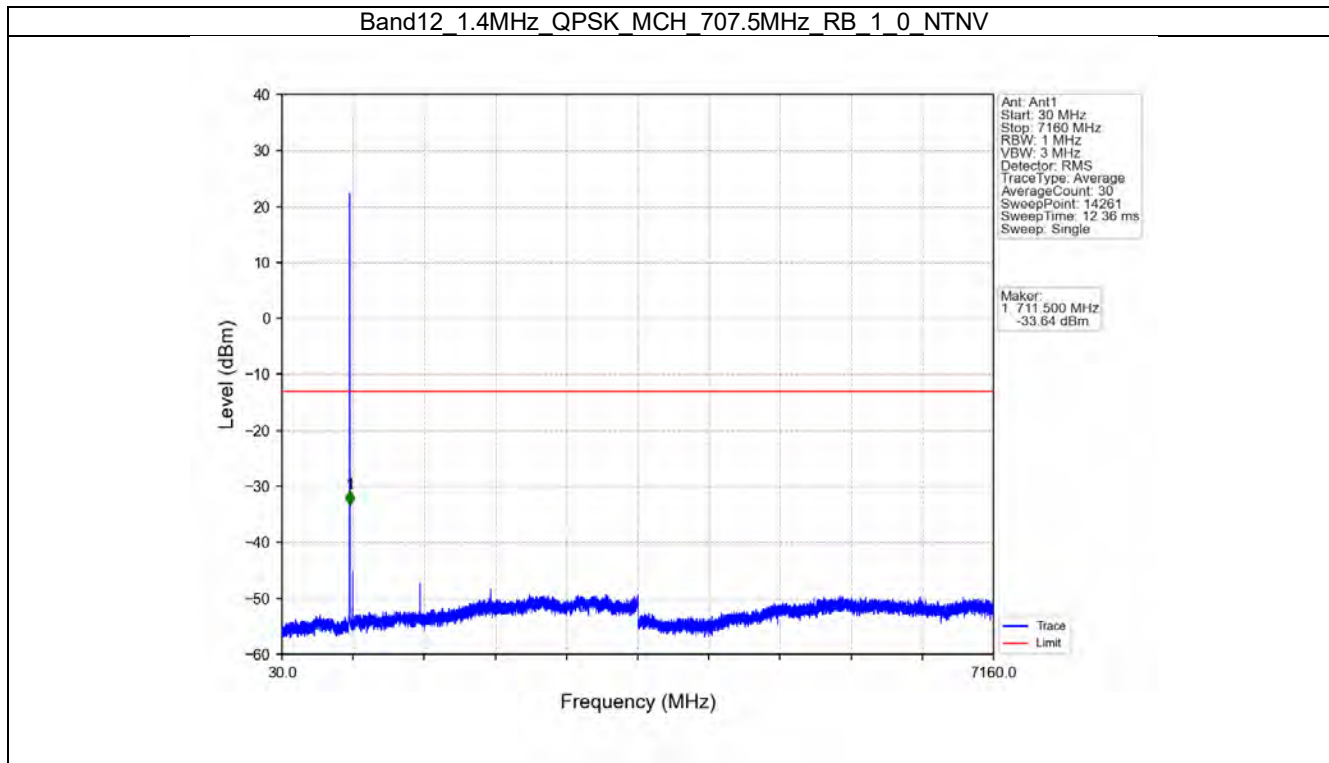
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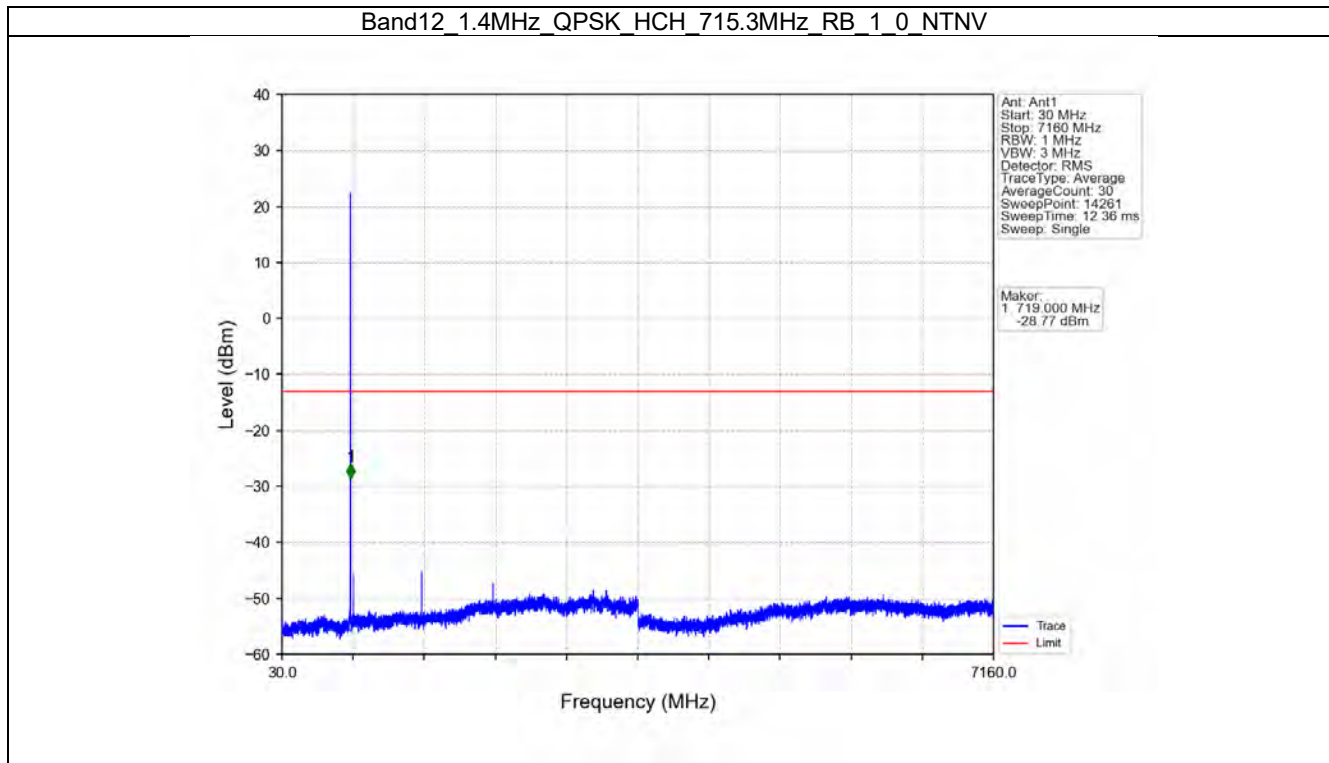
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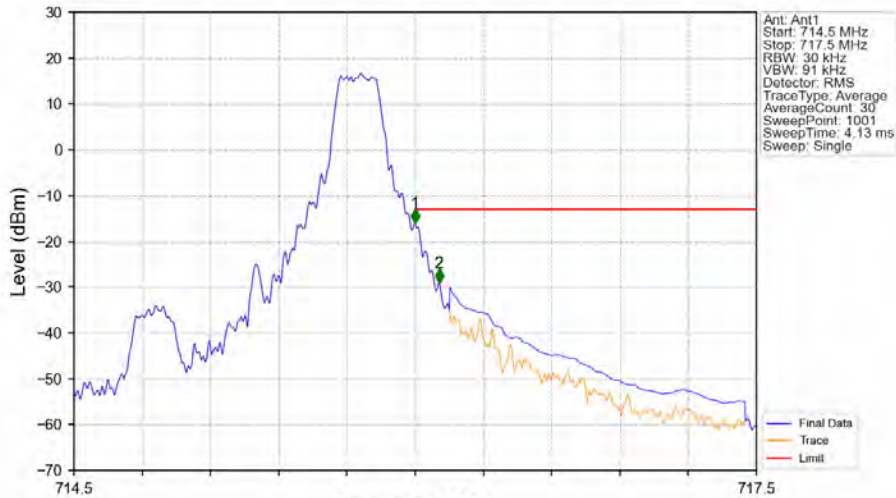
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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-16.03	-13	Pass
716.1	717.5	0.1	CHP	2	716.105	-29.11	-13	Pass



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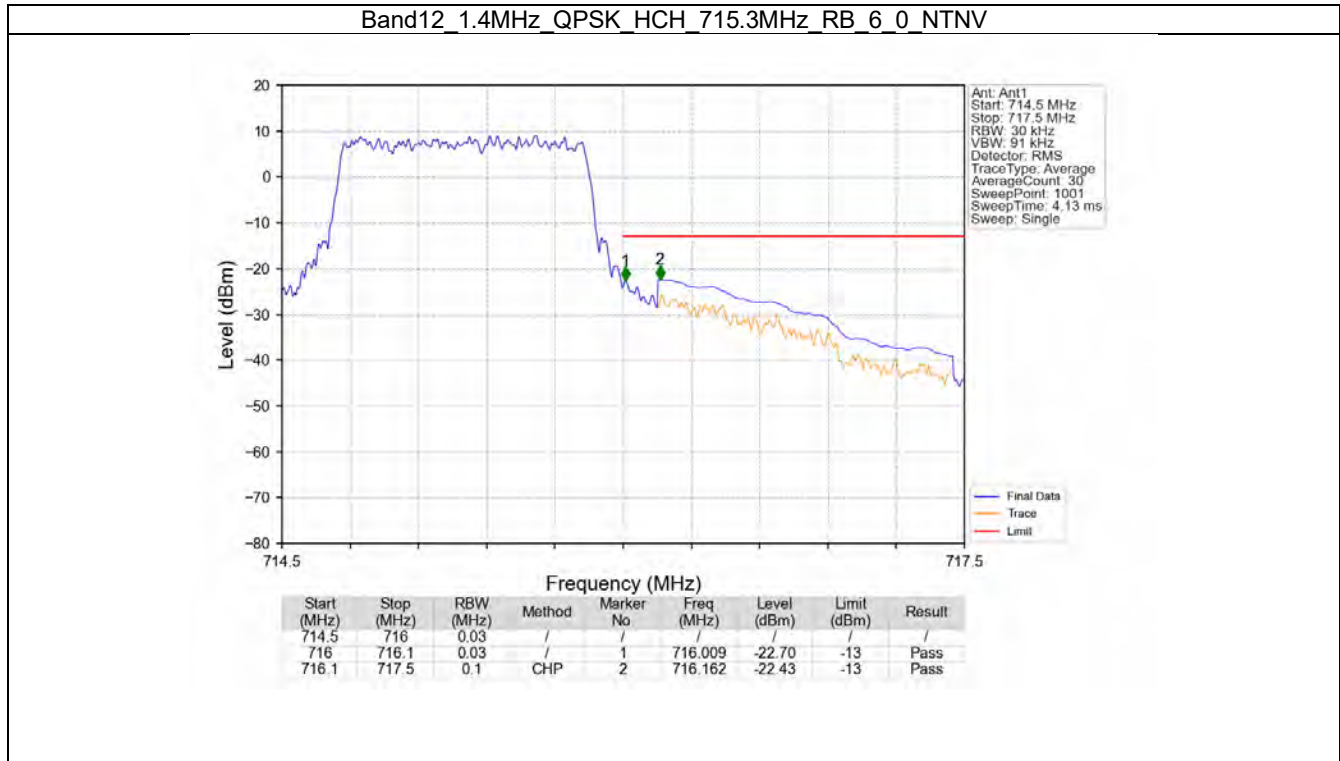


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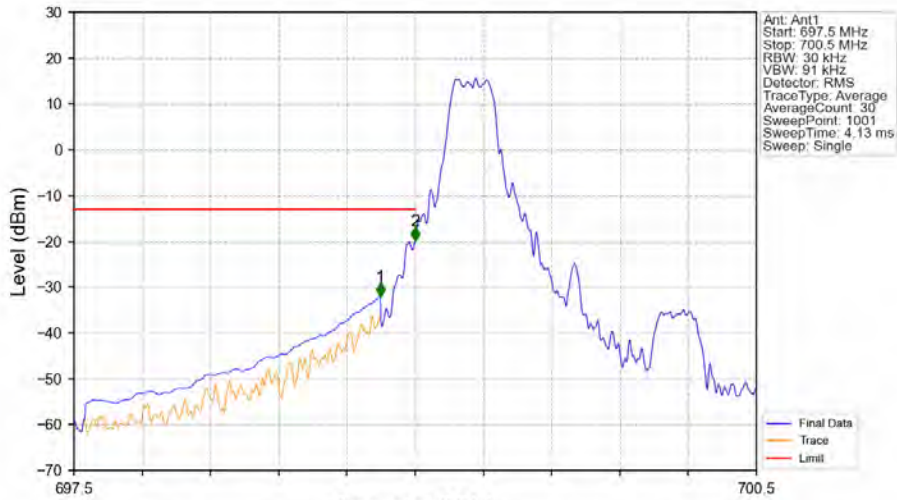
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Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-32.04	-13	Pass
698.9	699	0.03	/	2	699.000	-19.92	-13	Pass
699	700.5	0.03	/	/	/	/	/	/



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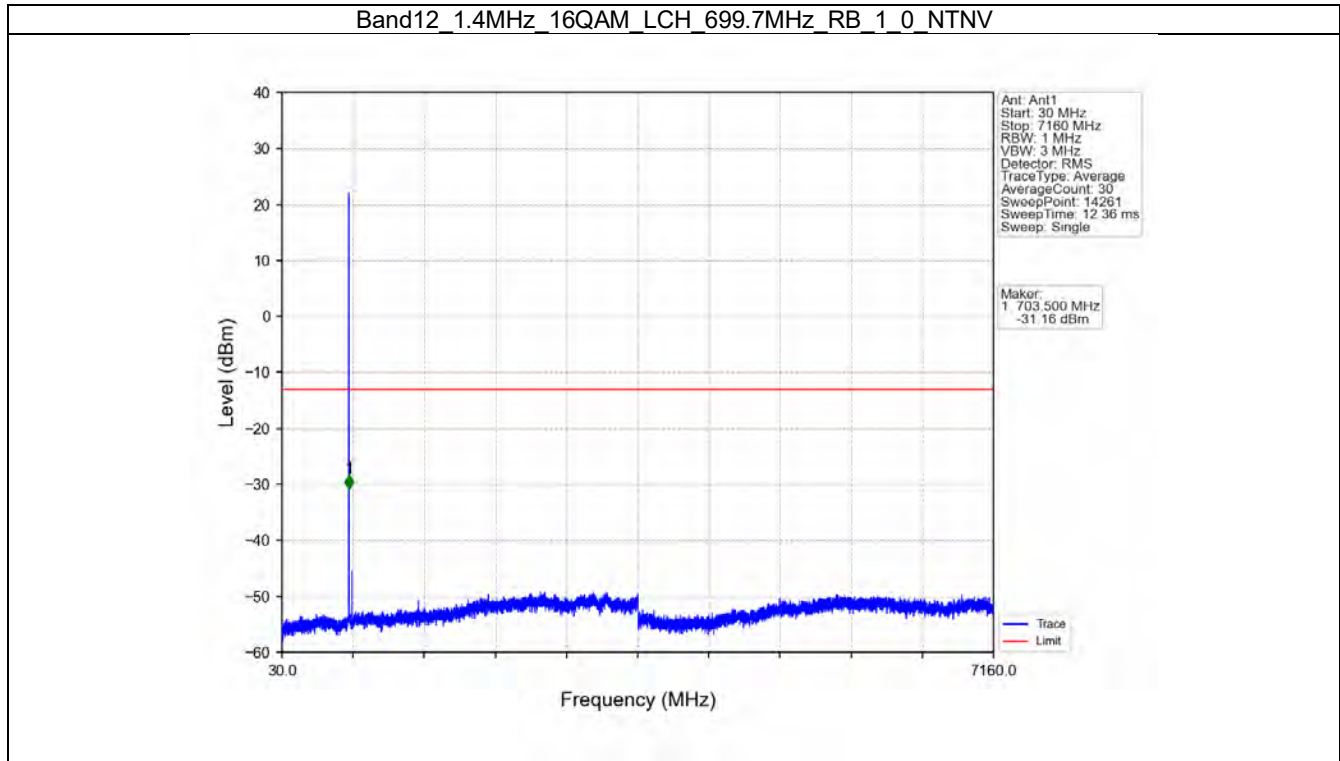


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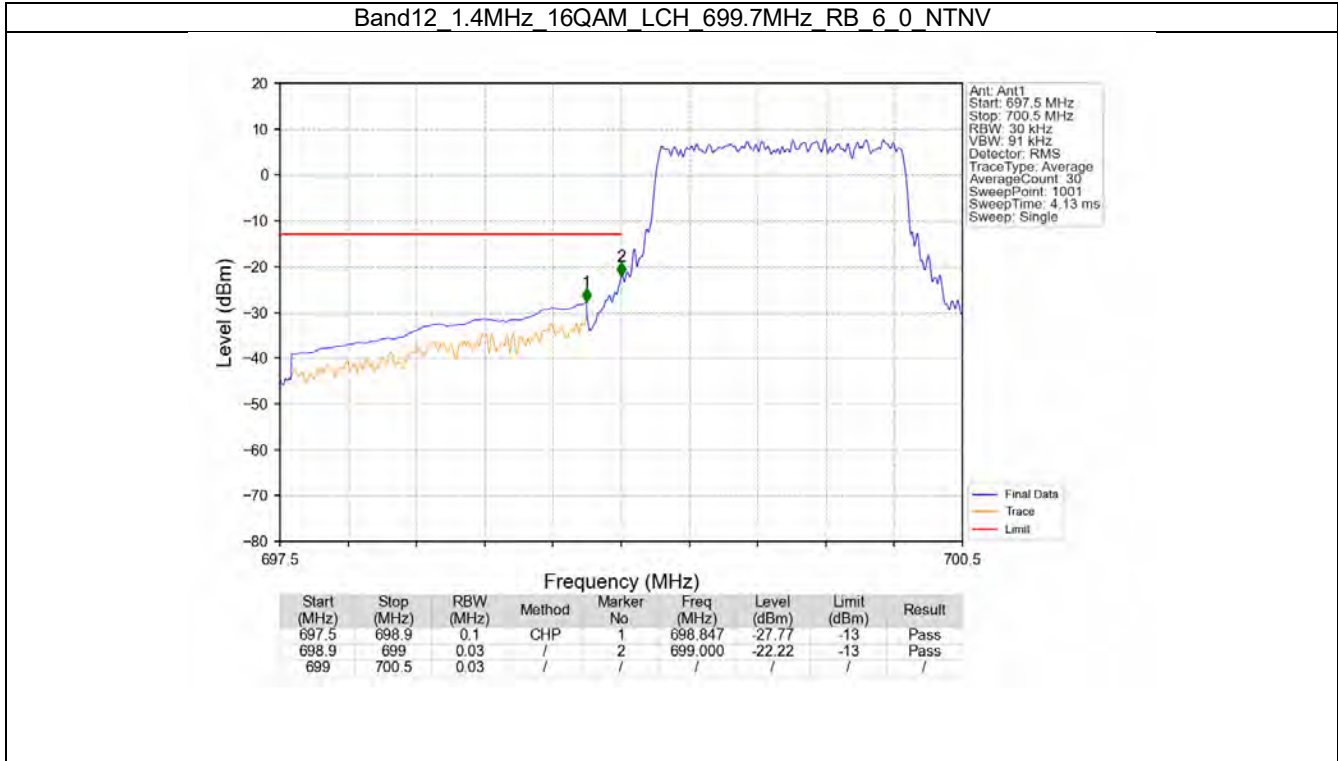


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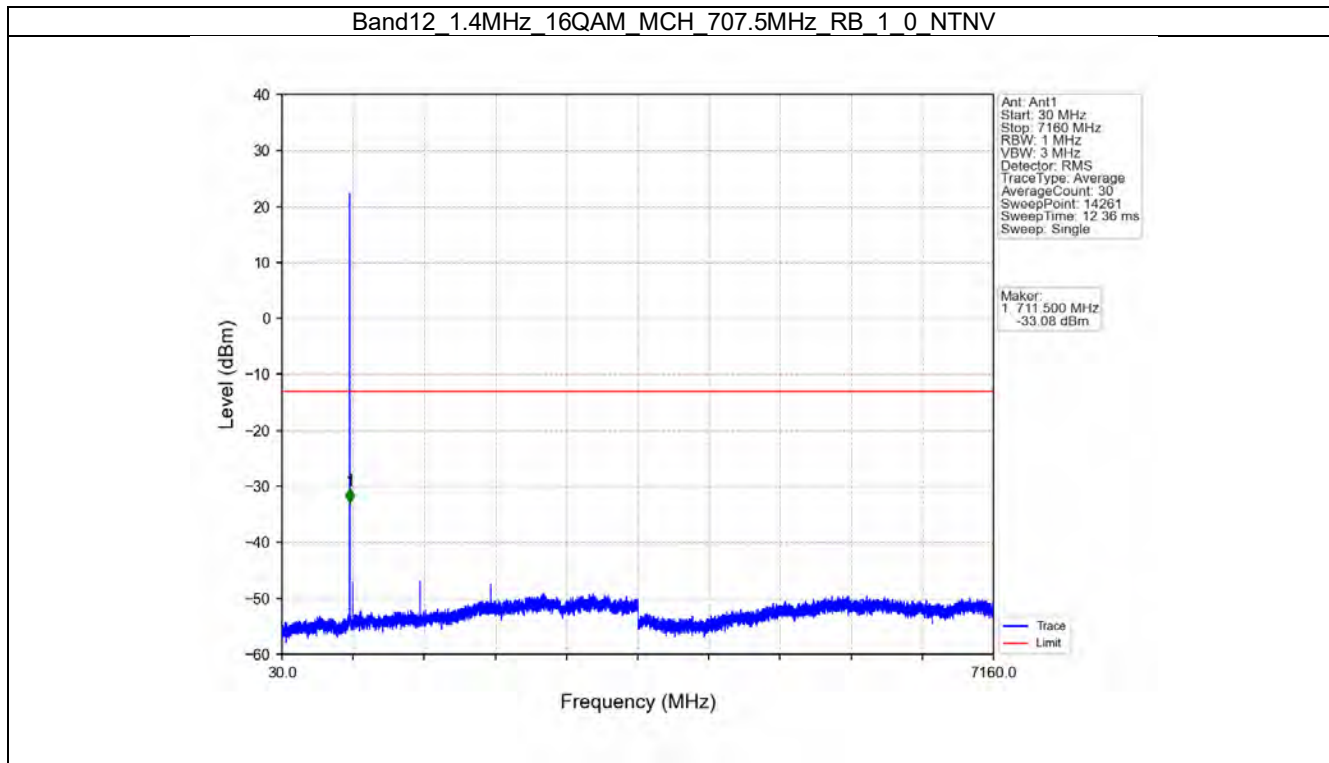
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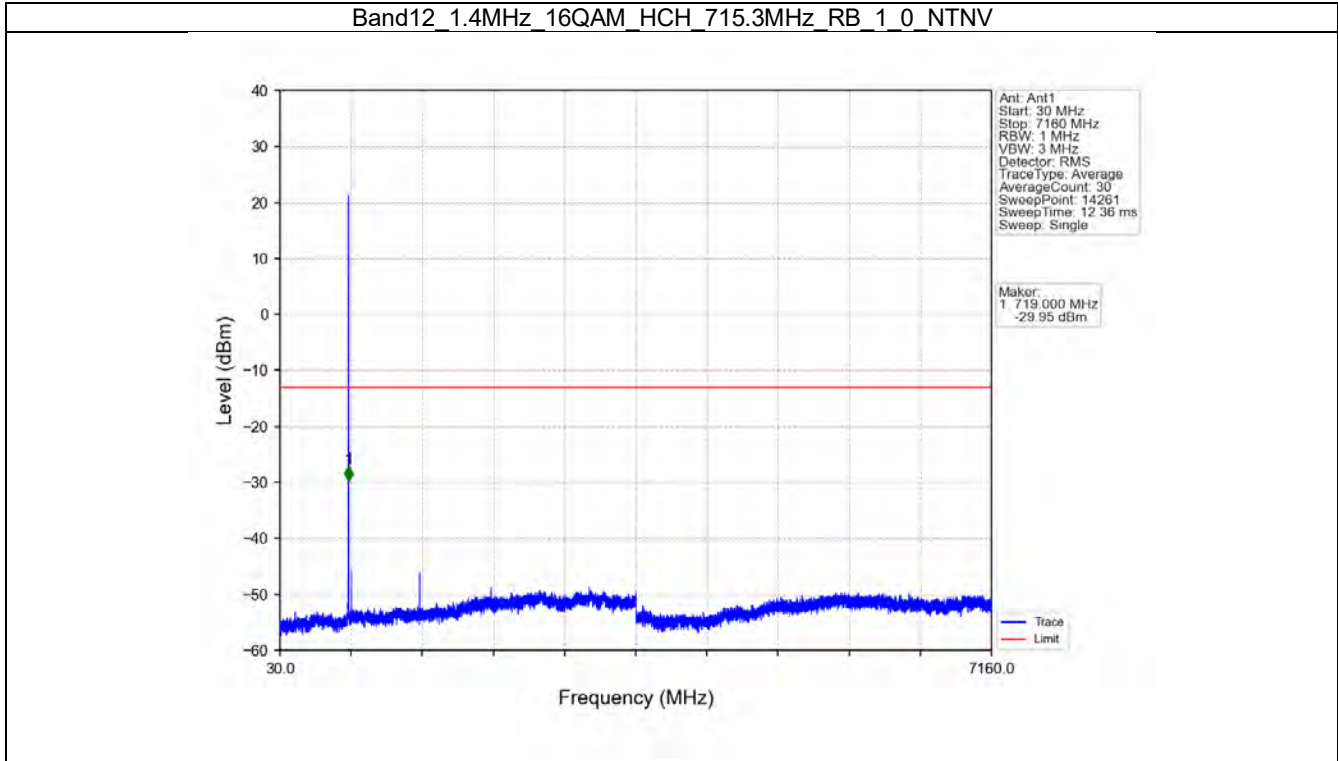


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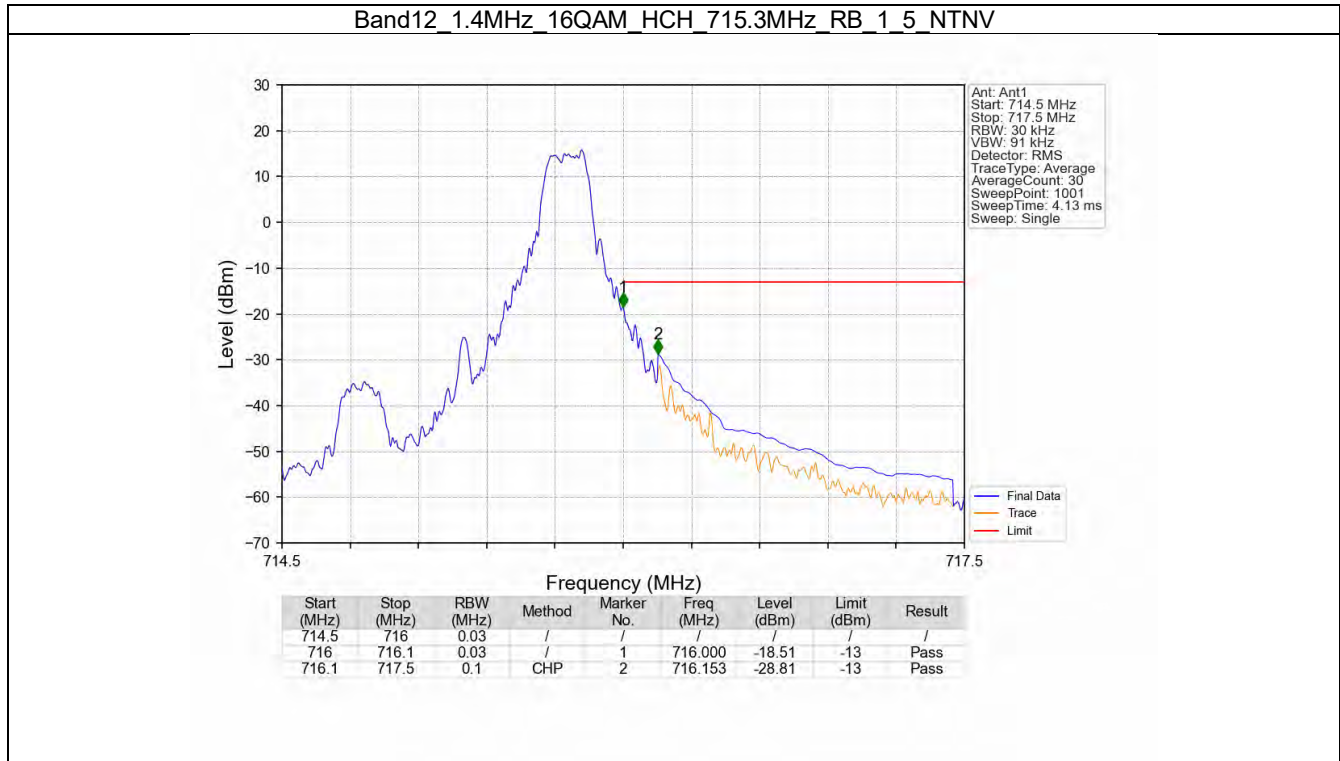


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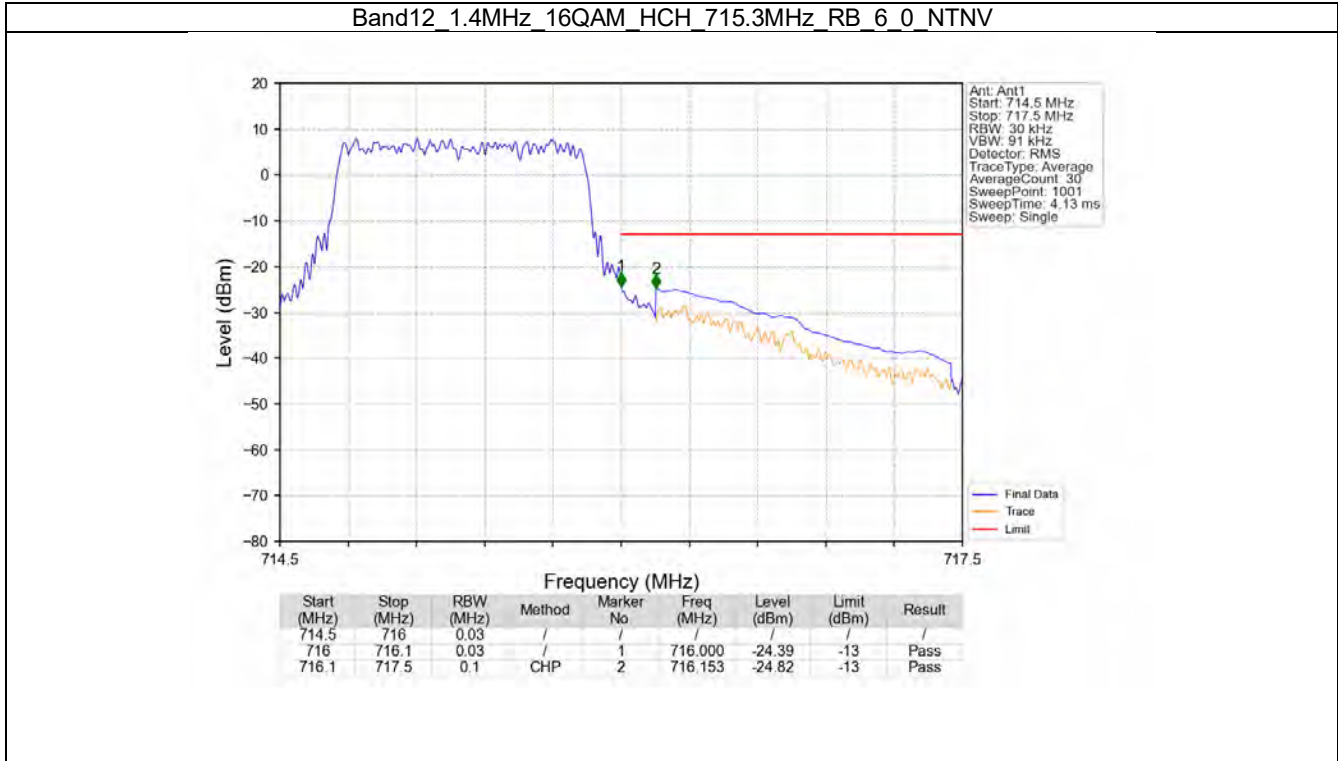


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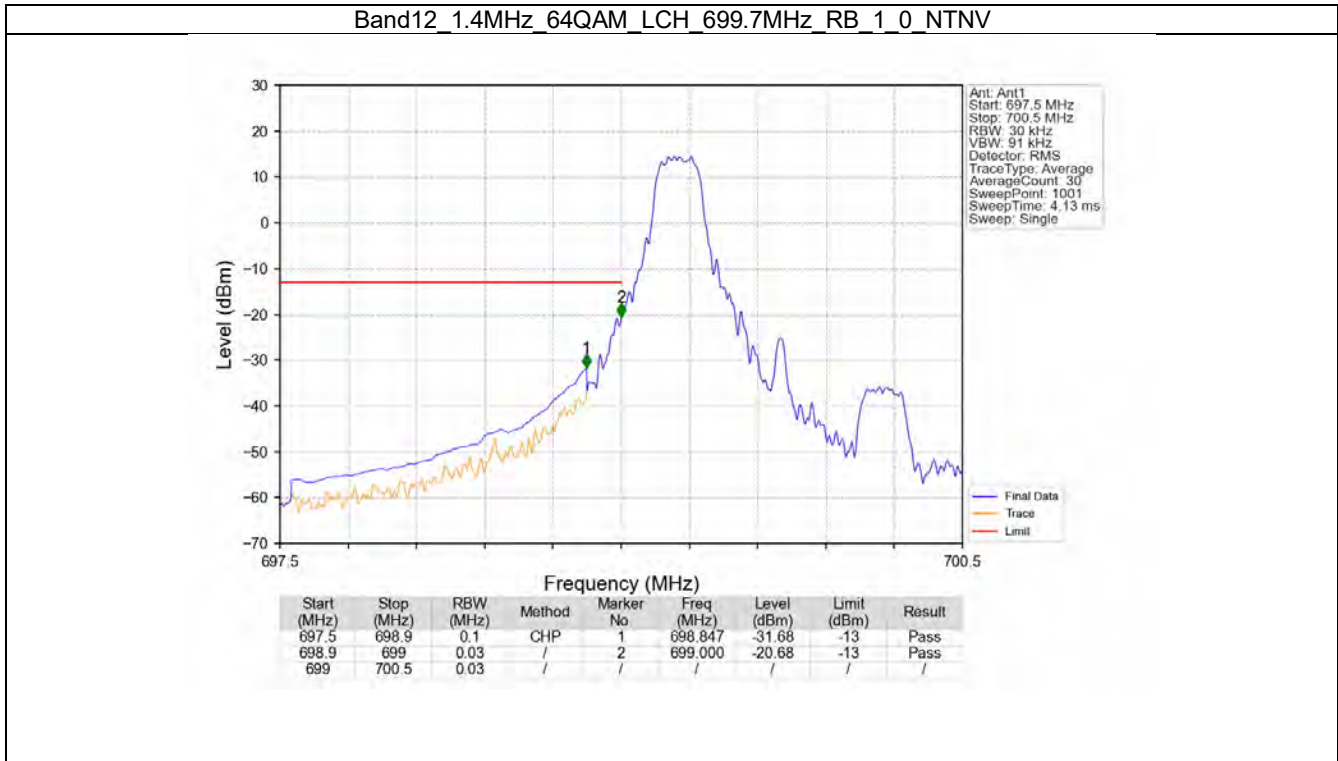


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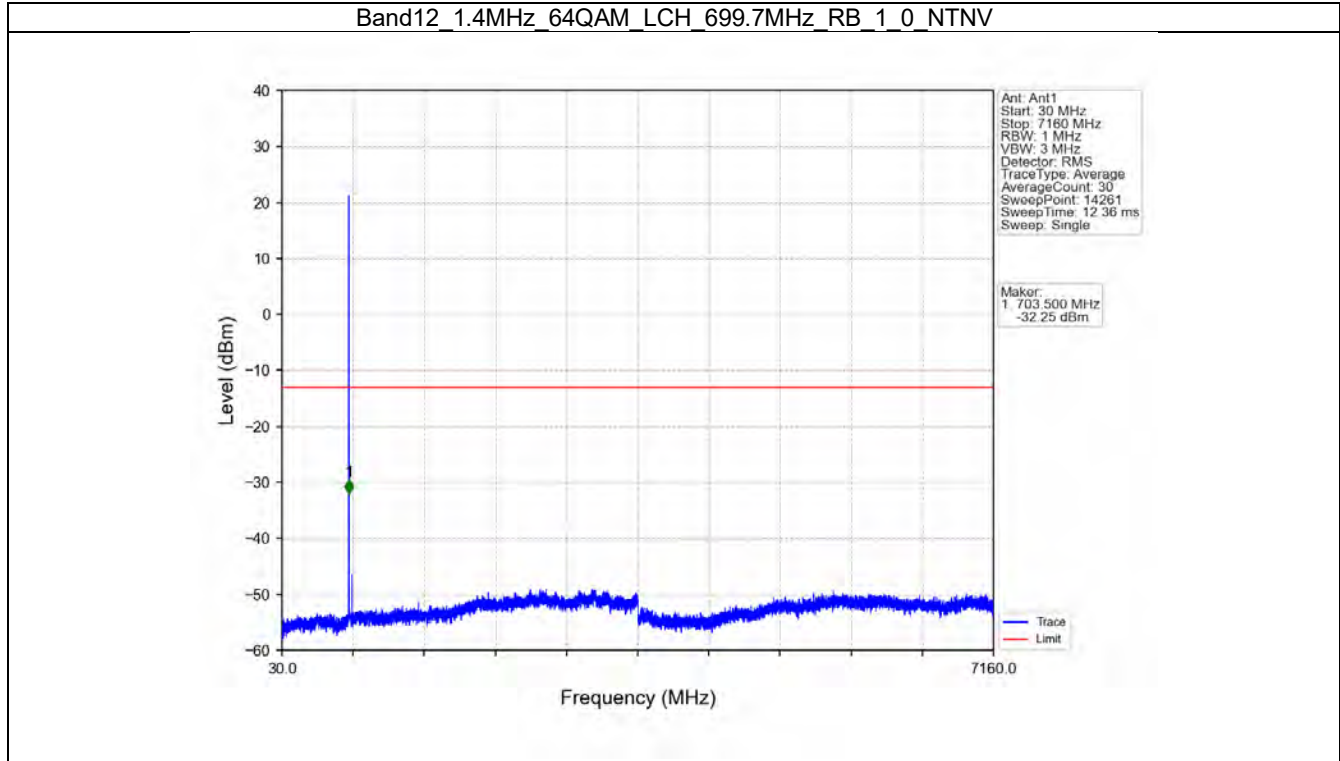


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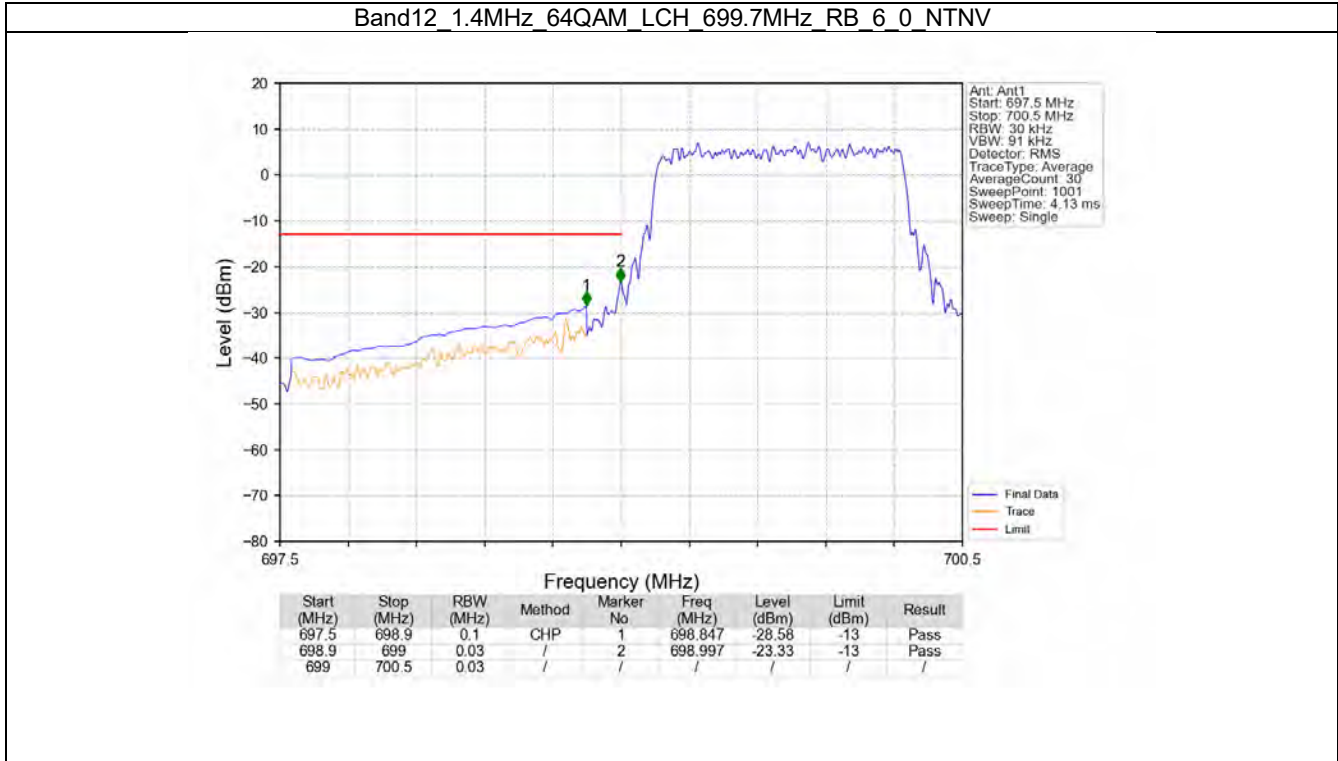


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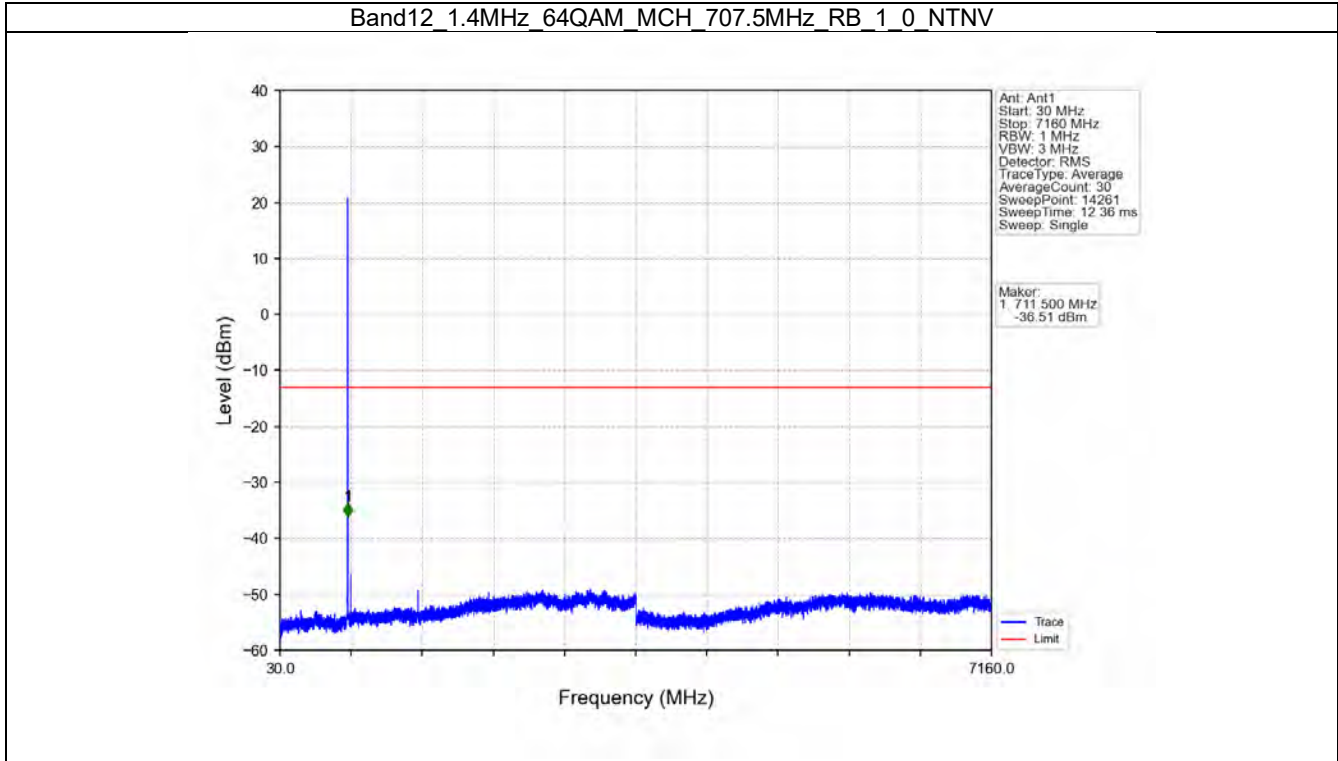


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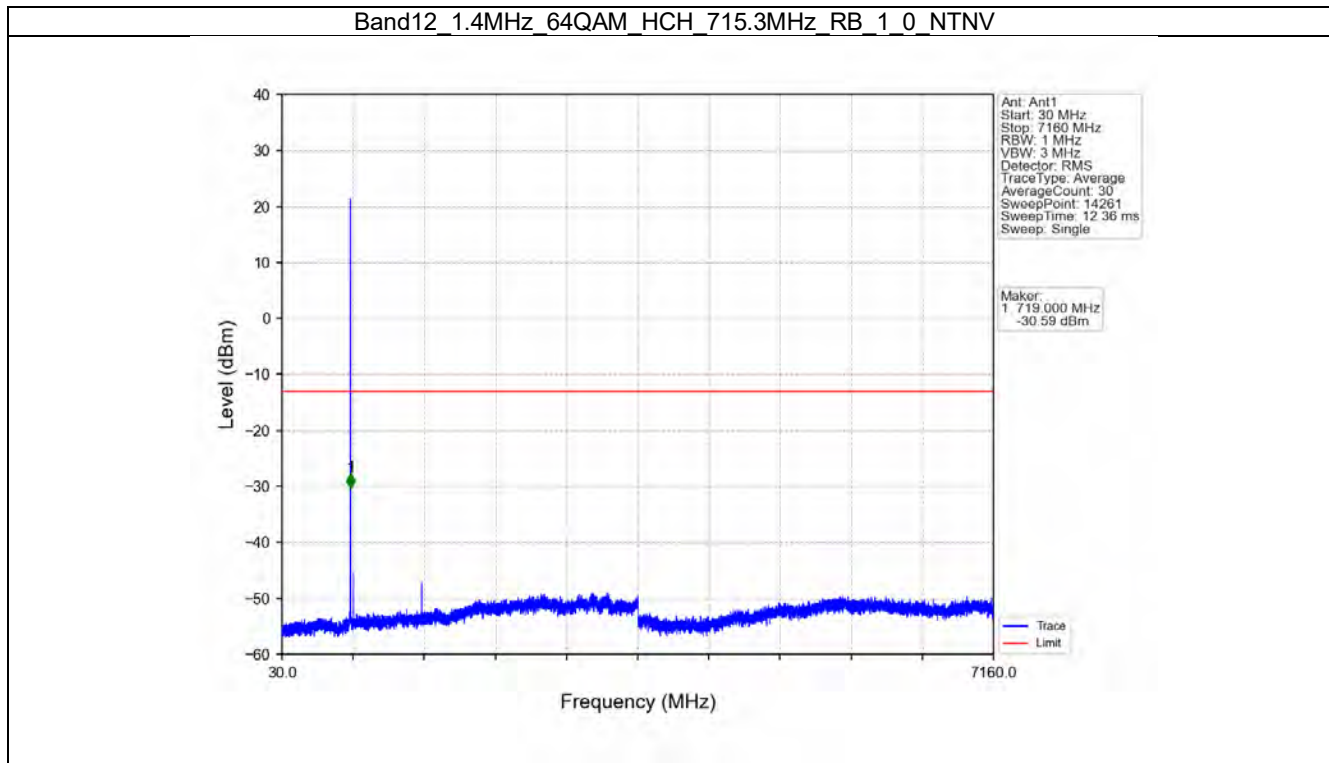
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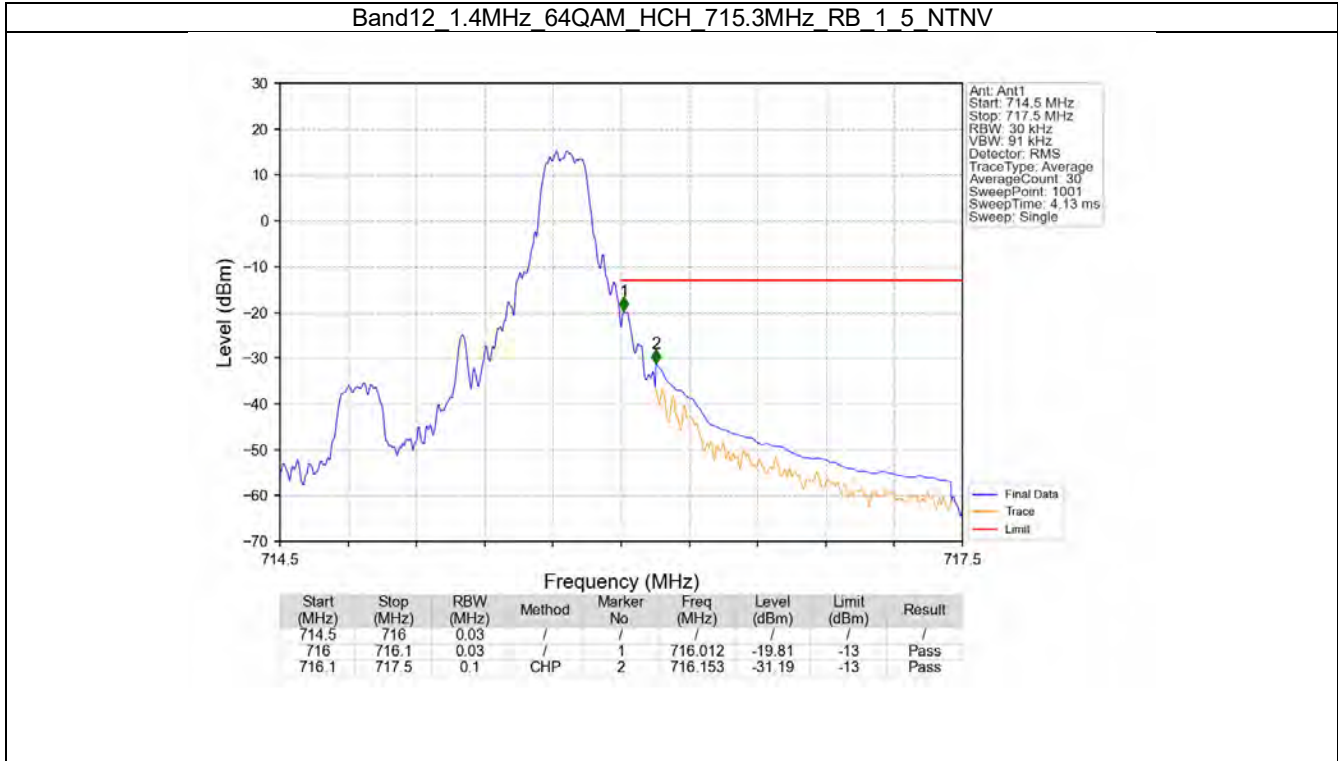


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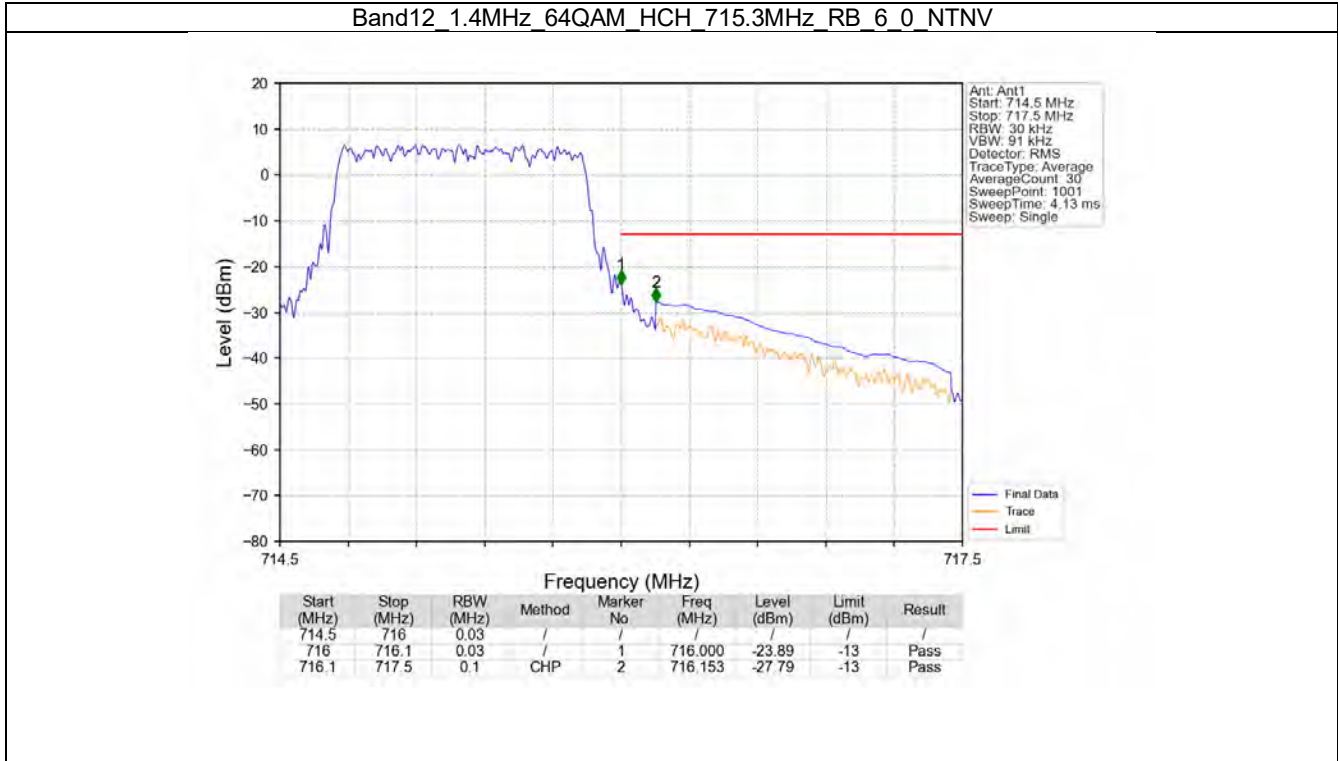


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5.2 B12_3MHz

5.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
		1	14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
		1	14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
64QAM	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
		1	14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass



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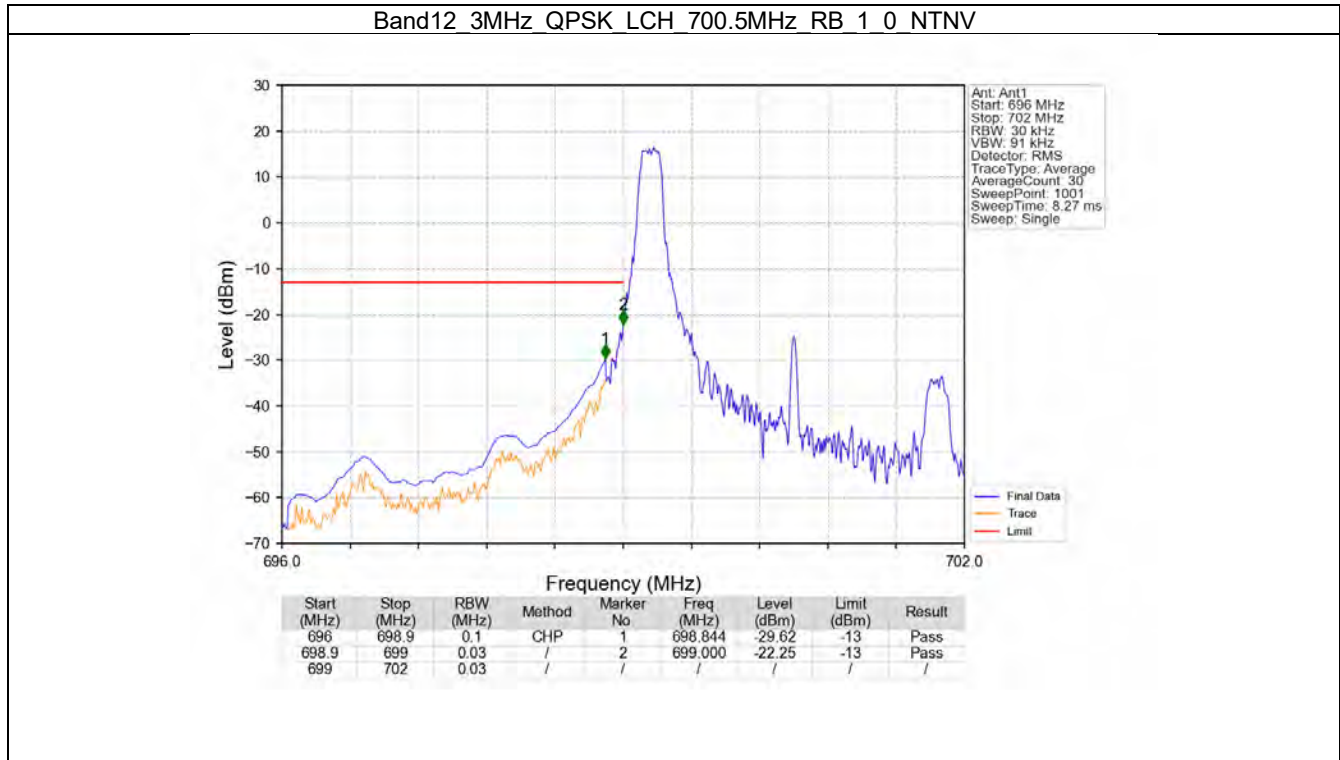
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5.2.2 Test Graph



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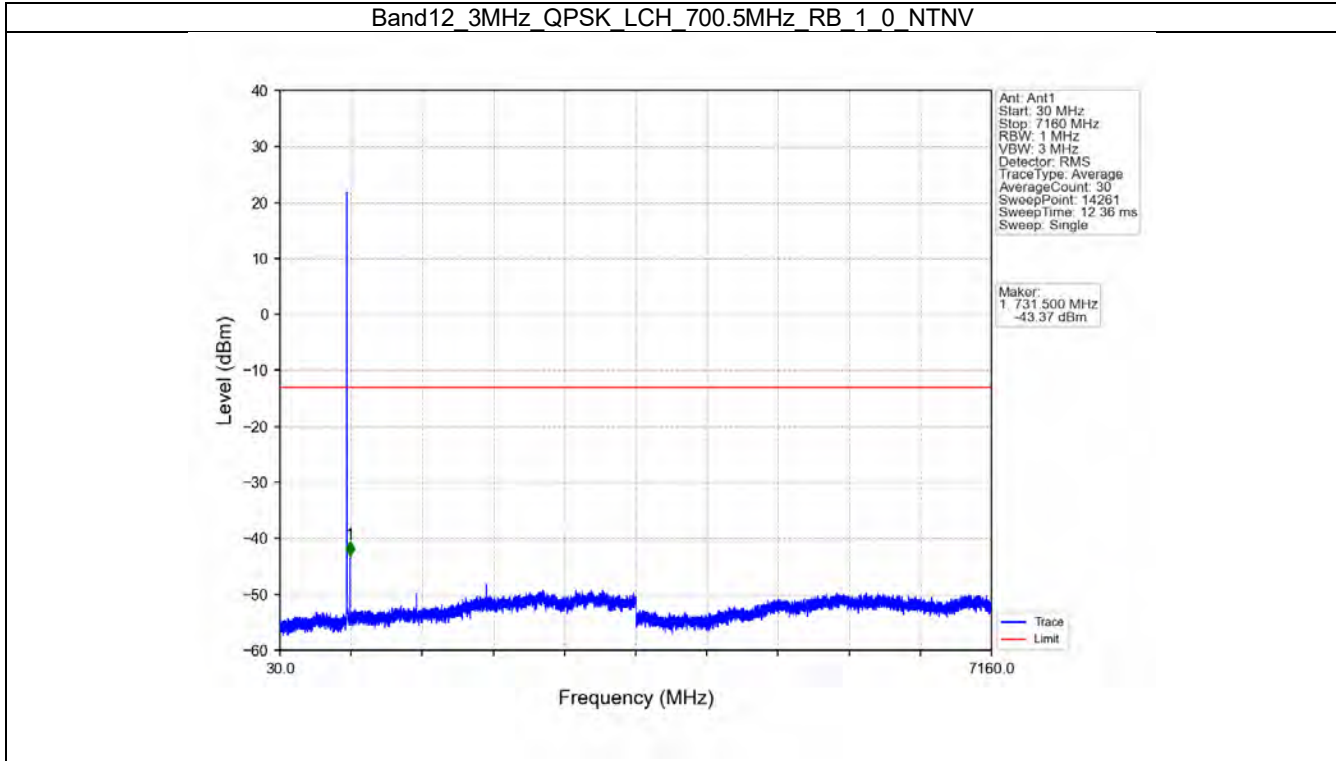


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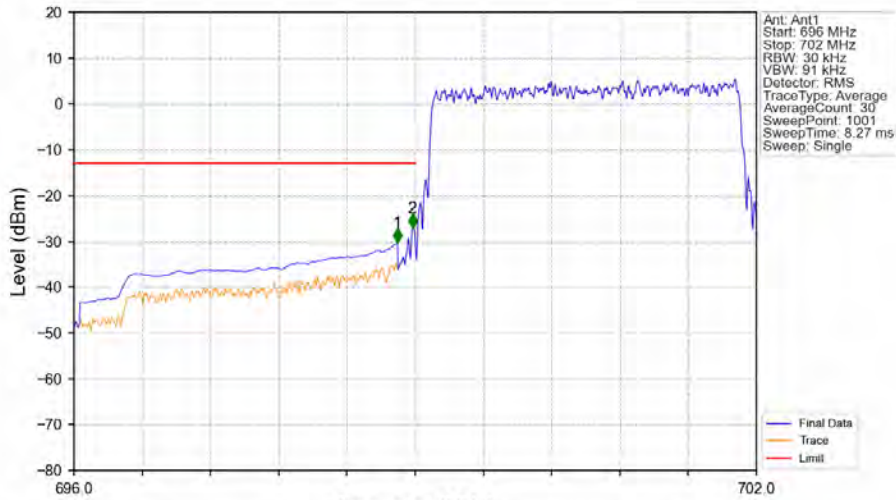
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Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-30.28	-13	Pass
698.9	699	0.03	/	2	698.976	-27.07	-13	Pass
699	702	0.03	/	/	/	/	/	/



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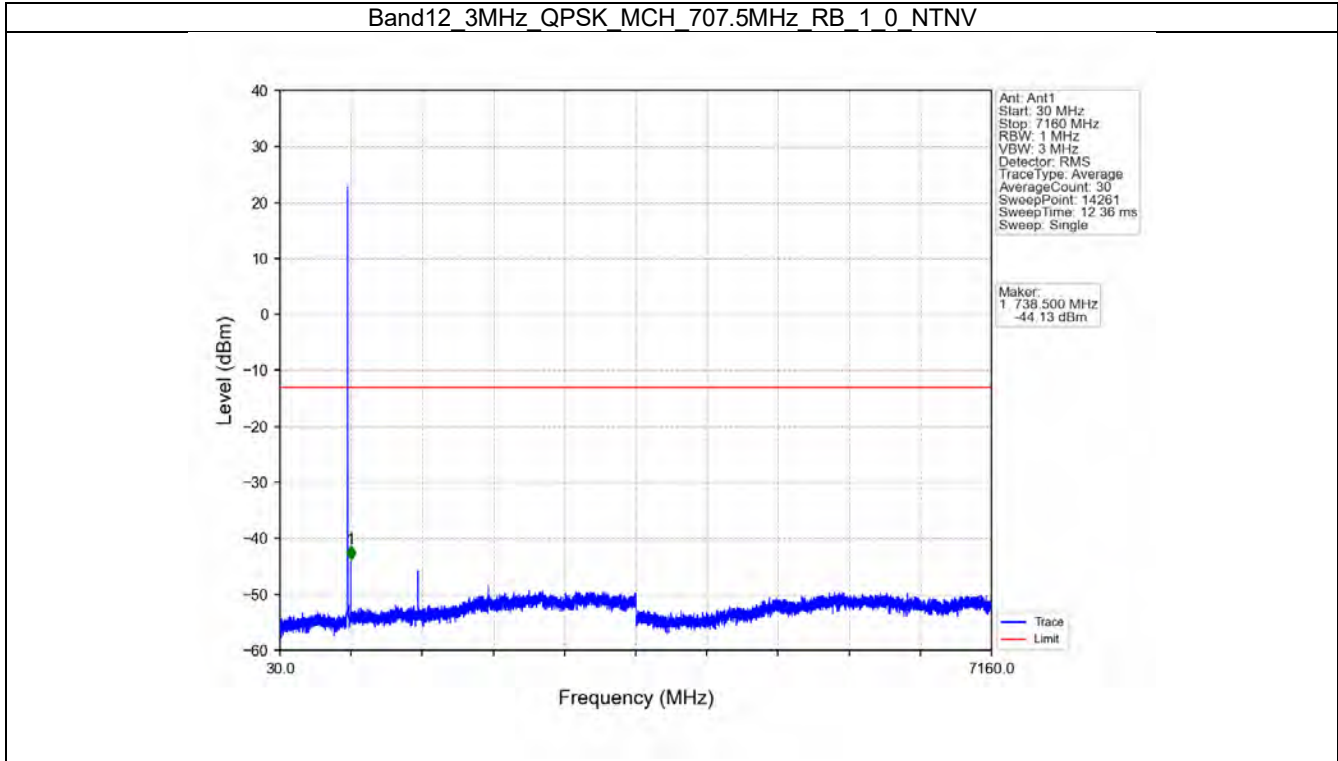


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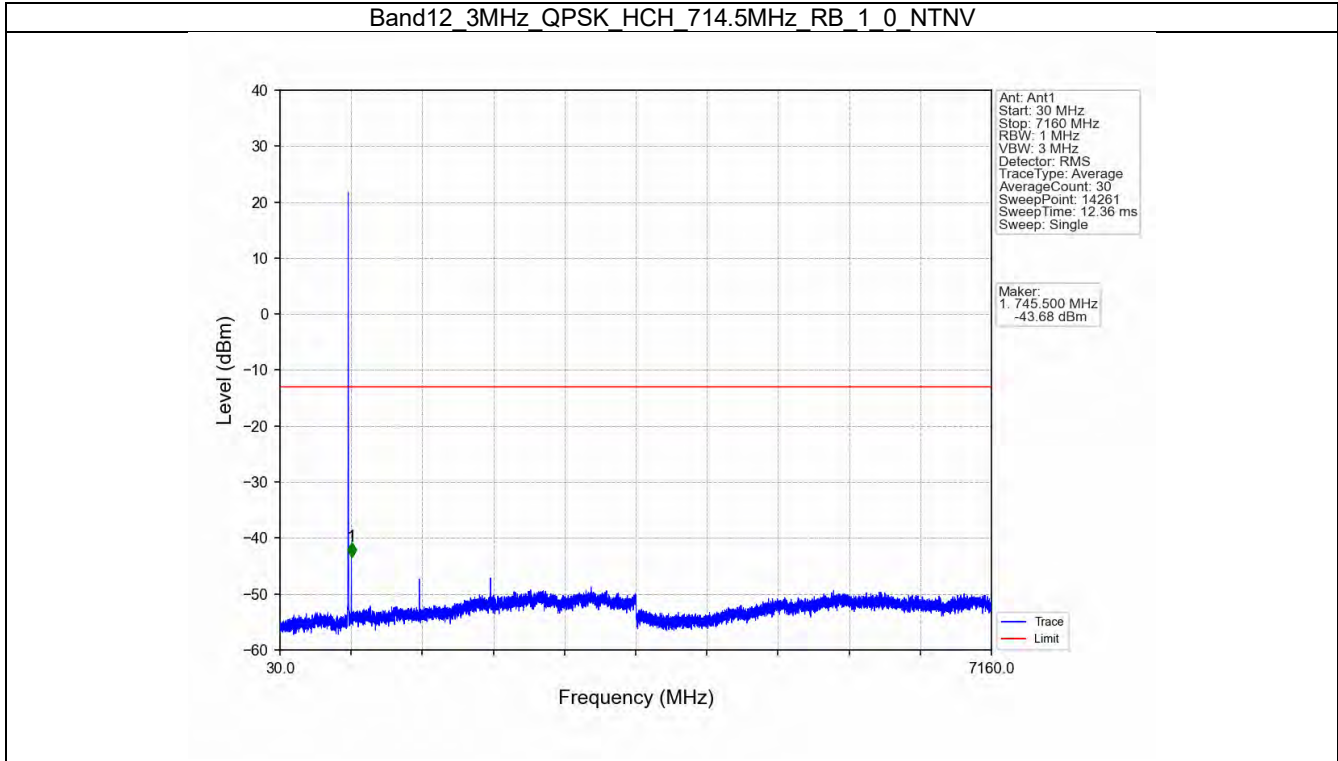


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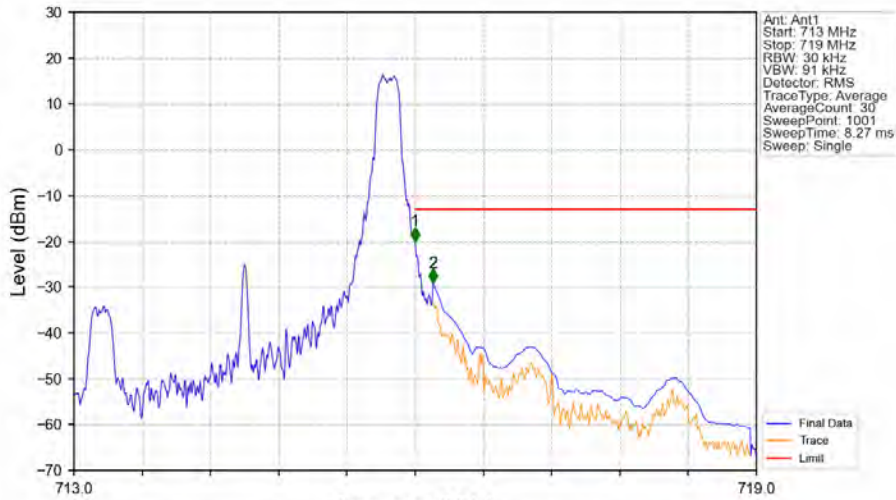
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Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-20.03	-13	Pass
716.1	719	0.1	CHP	2	716.156	-29.11	-13	Pass



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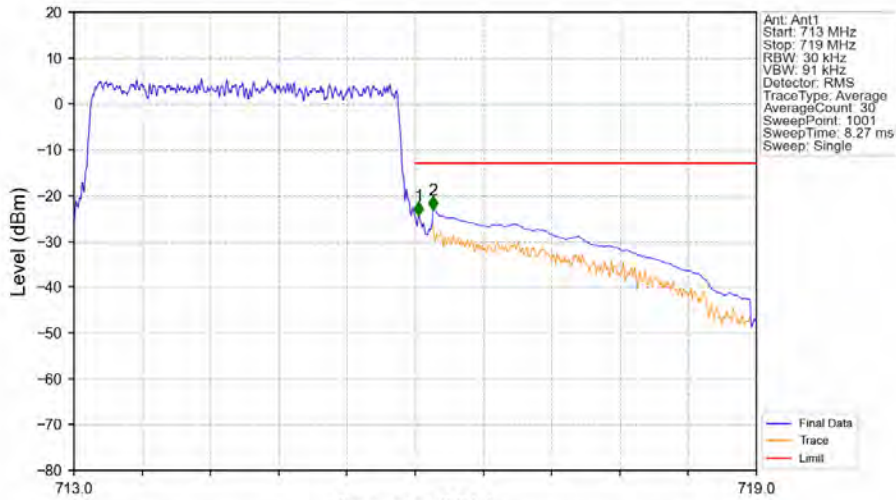
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Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.030	-24.47	-13	Pass
716.1	719	0.1	CHP	2	716.156	-23.21	-13	Pass



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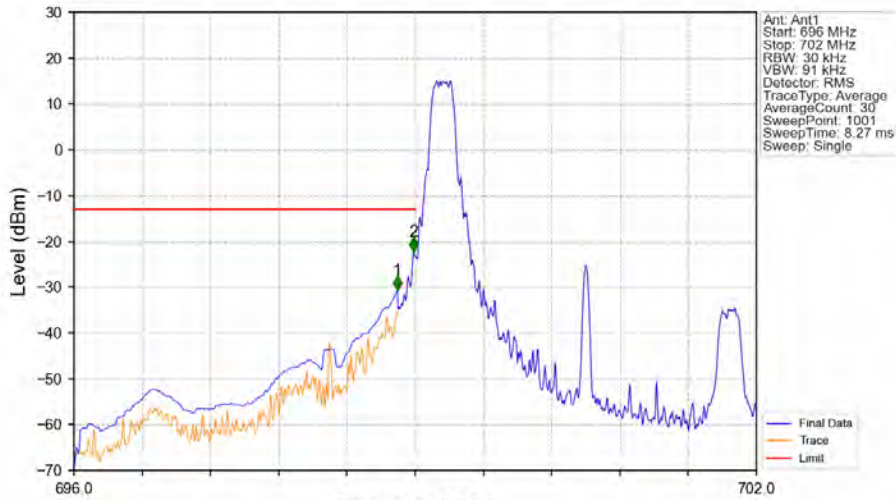
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Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-30.62	-13	Pass
698.9	699	0.03	/	2	698.988	-22.18	-13	Pass
699	702	0.03	/	/	/	/	/	/



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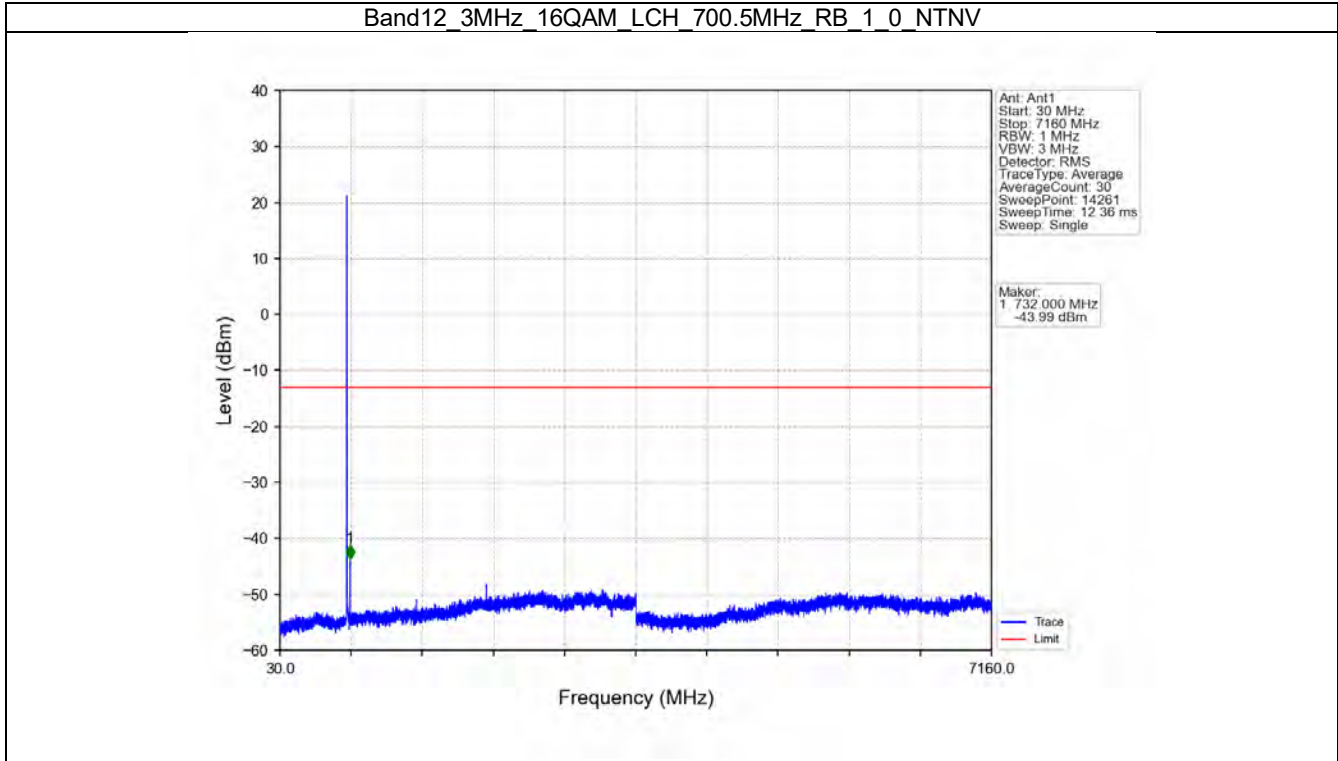


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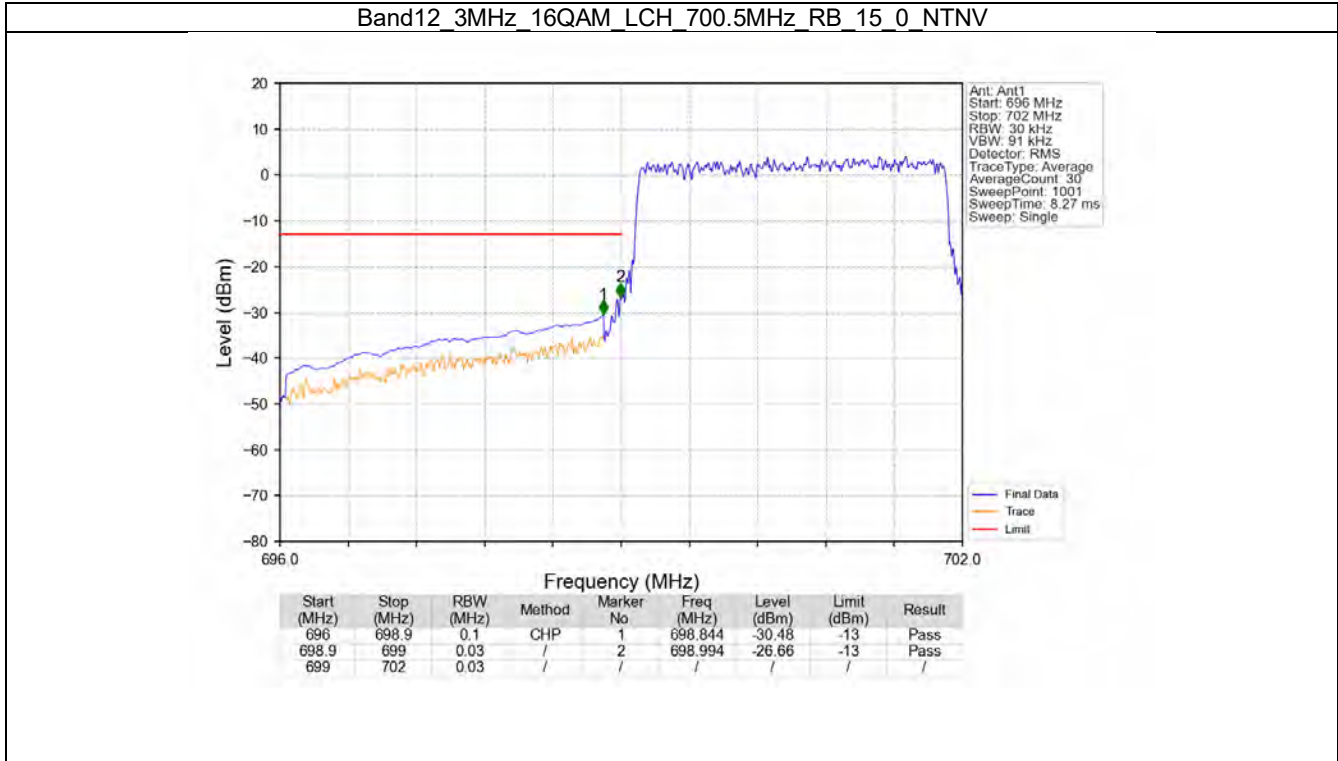


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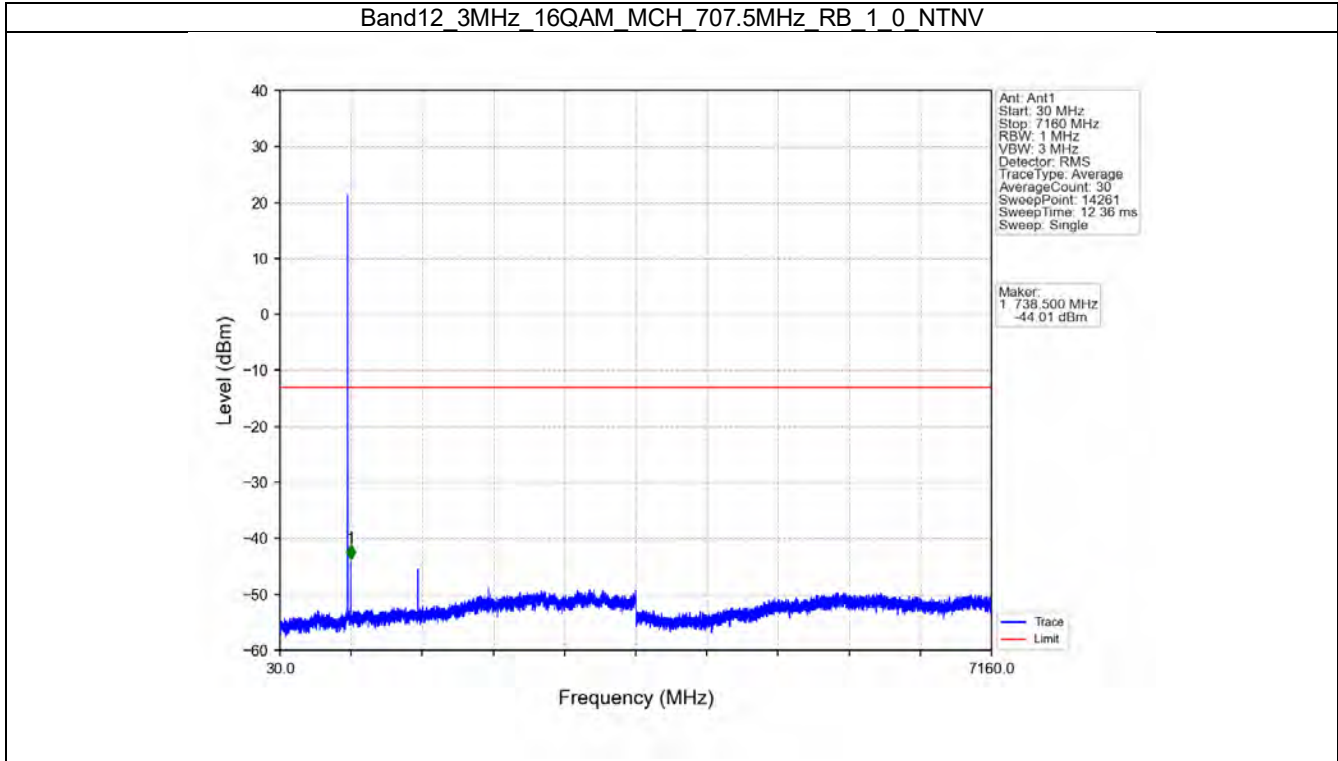


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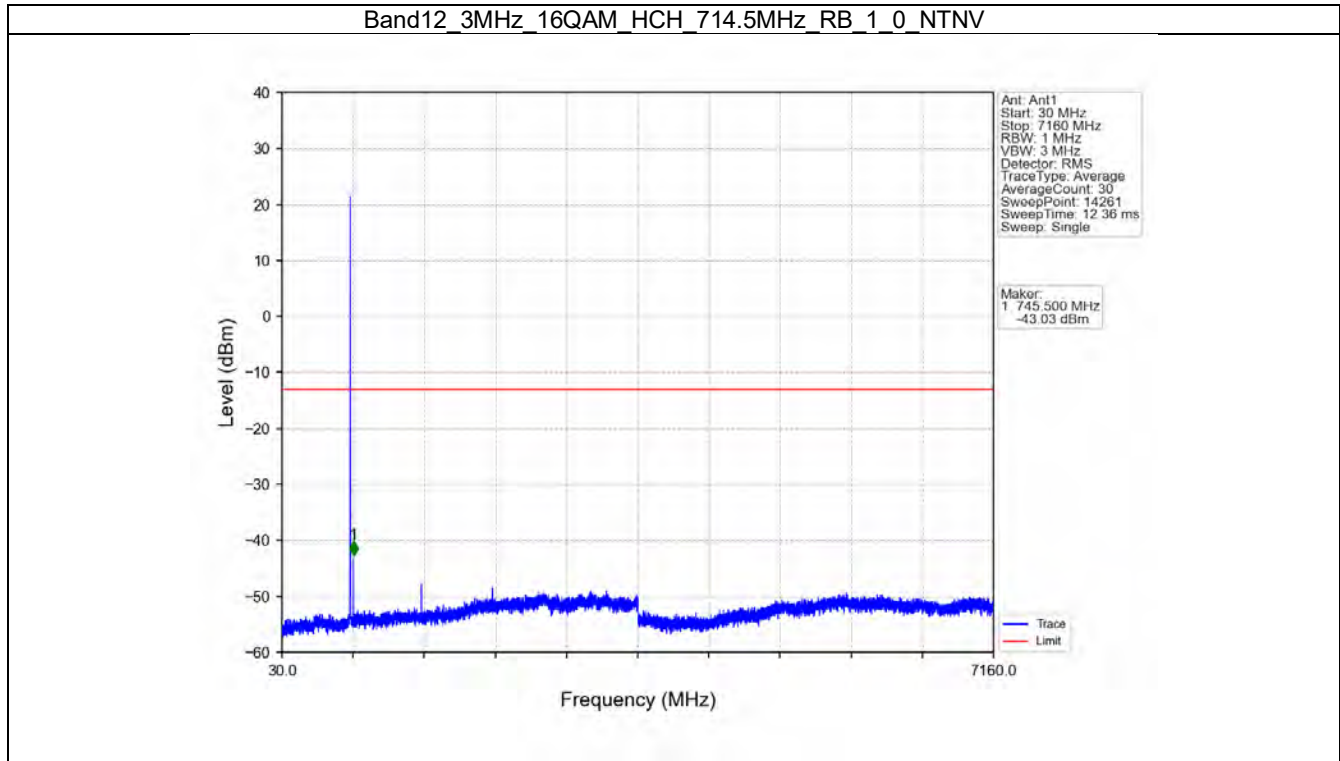


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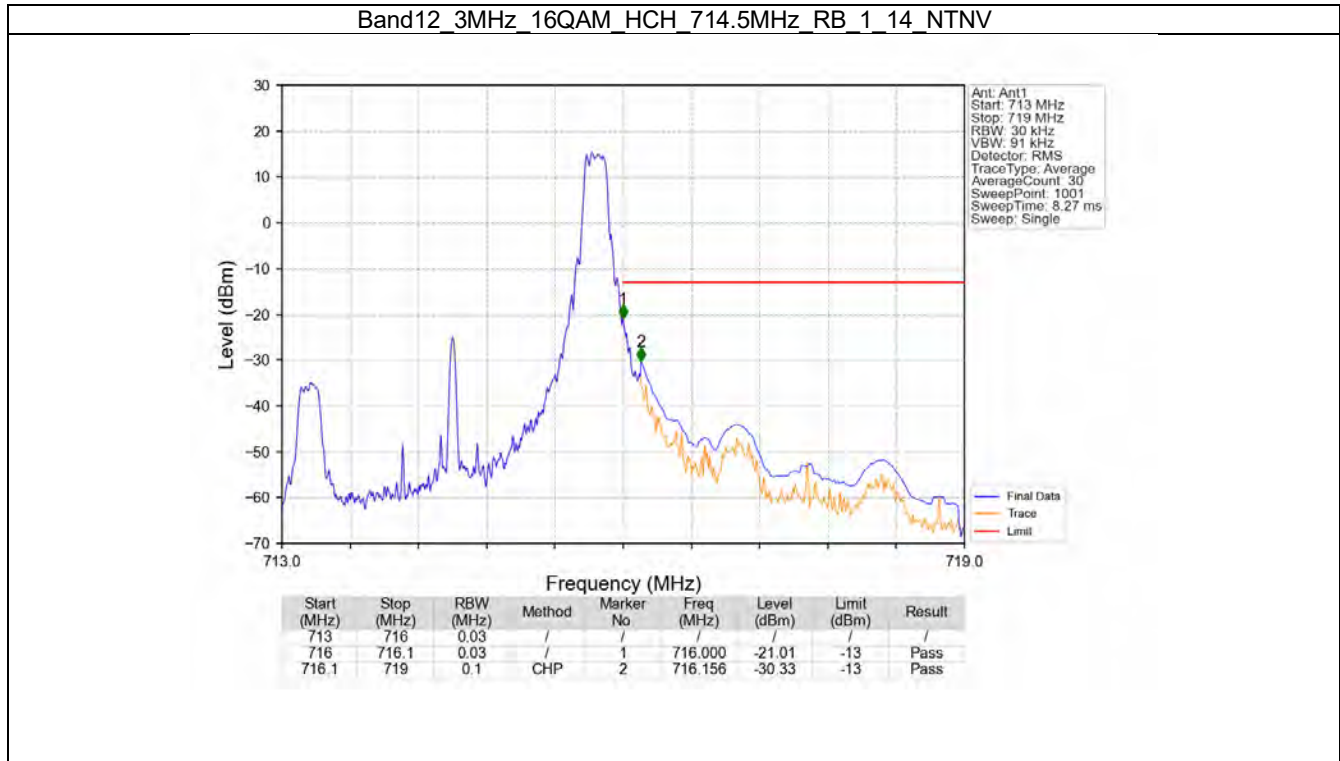


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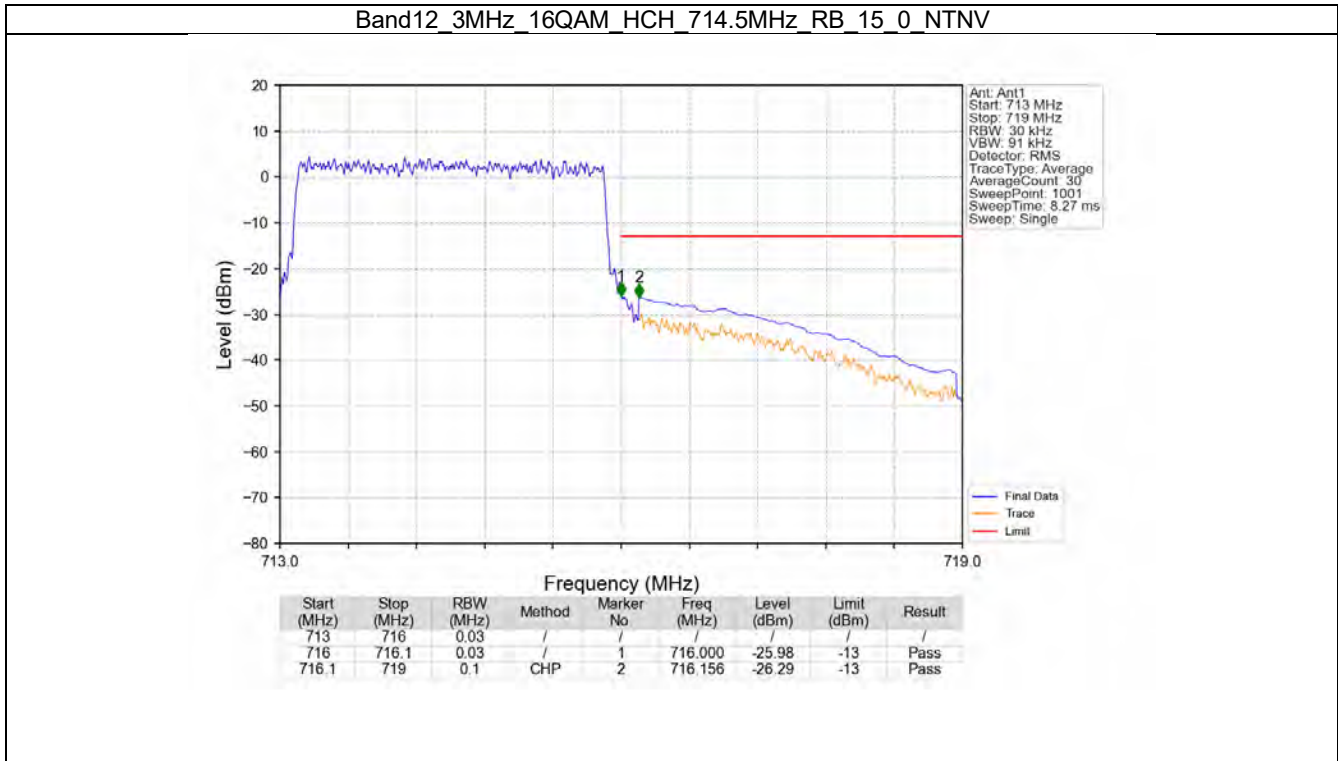


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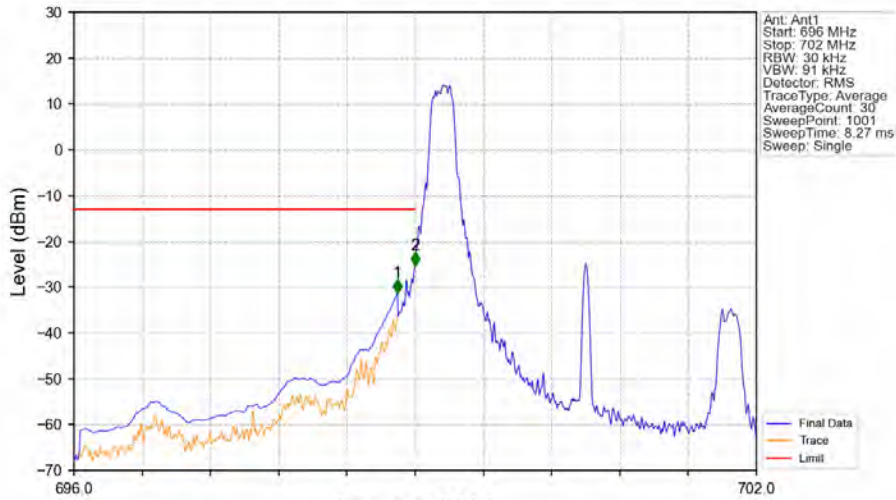
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Band12_3MHz_64QAM_LCH_700.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-31.30	-13	Pass
698.9	699	0.03	/	2	699.000	-25.31	-13	Pass
699	702	0.03	/	/	/	/	/	/



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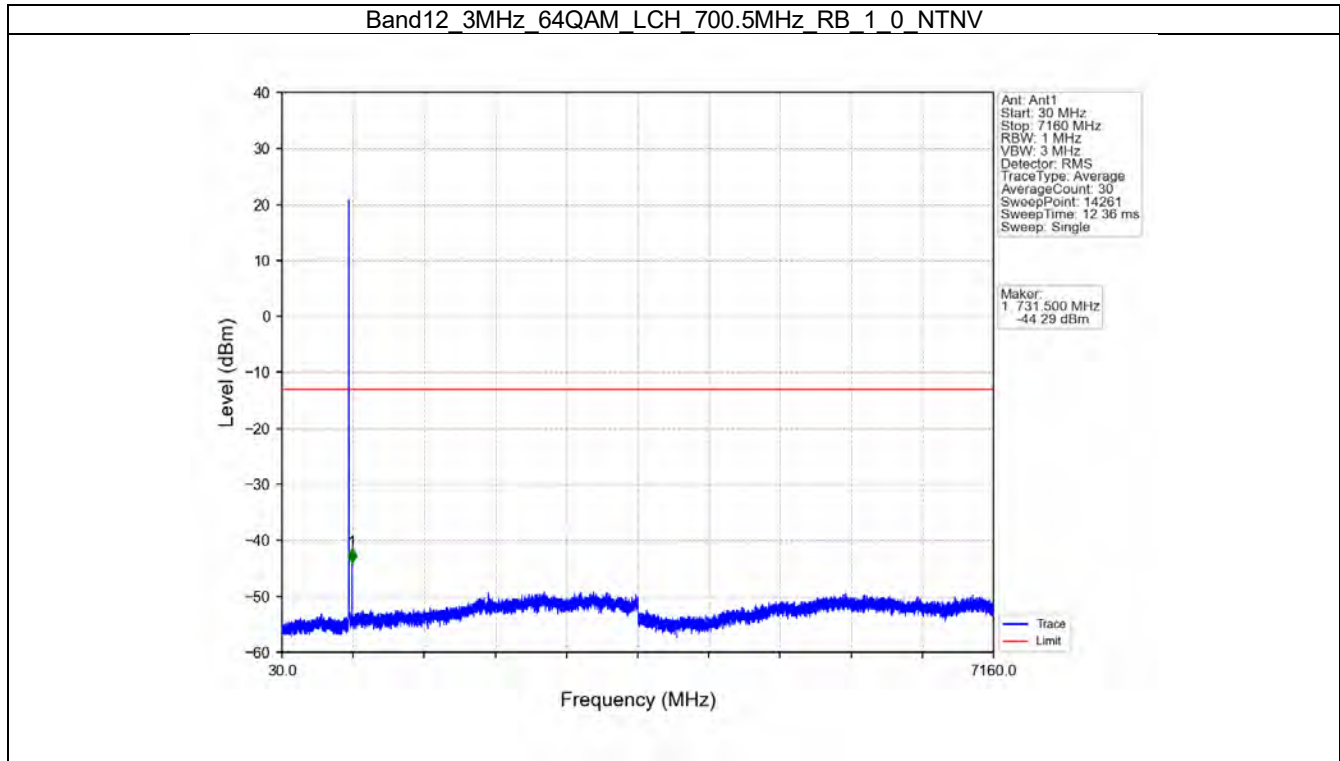


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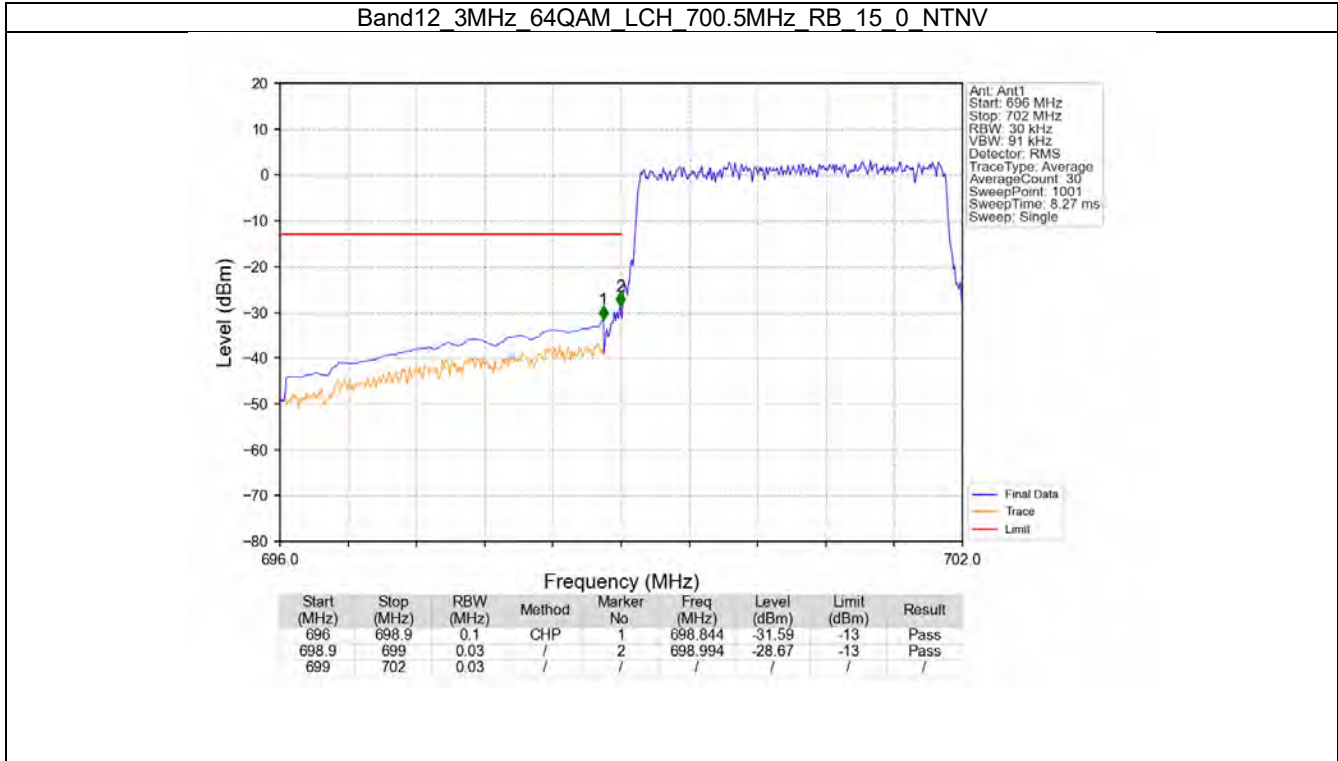


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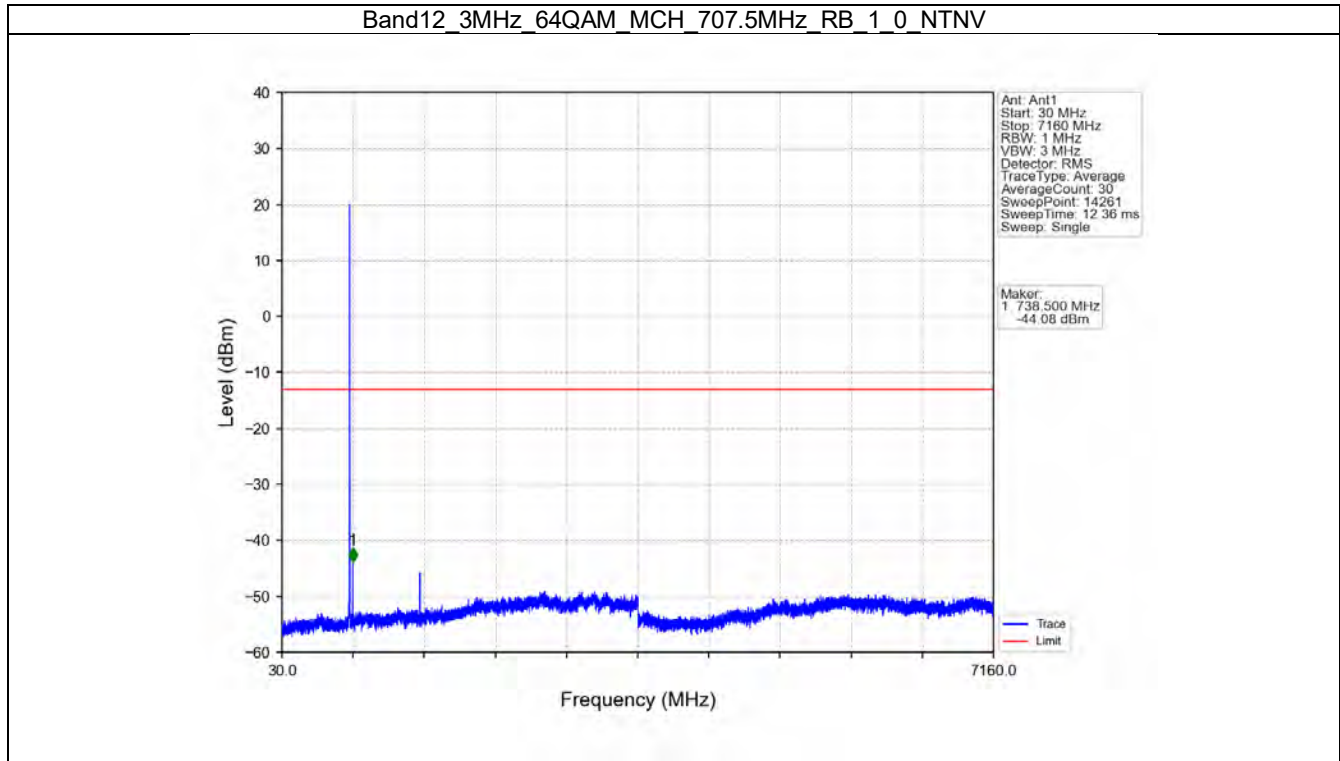


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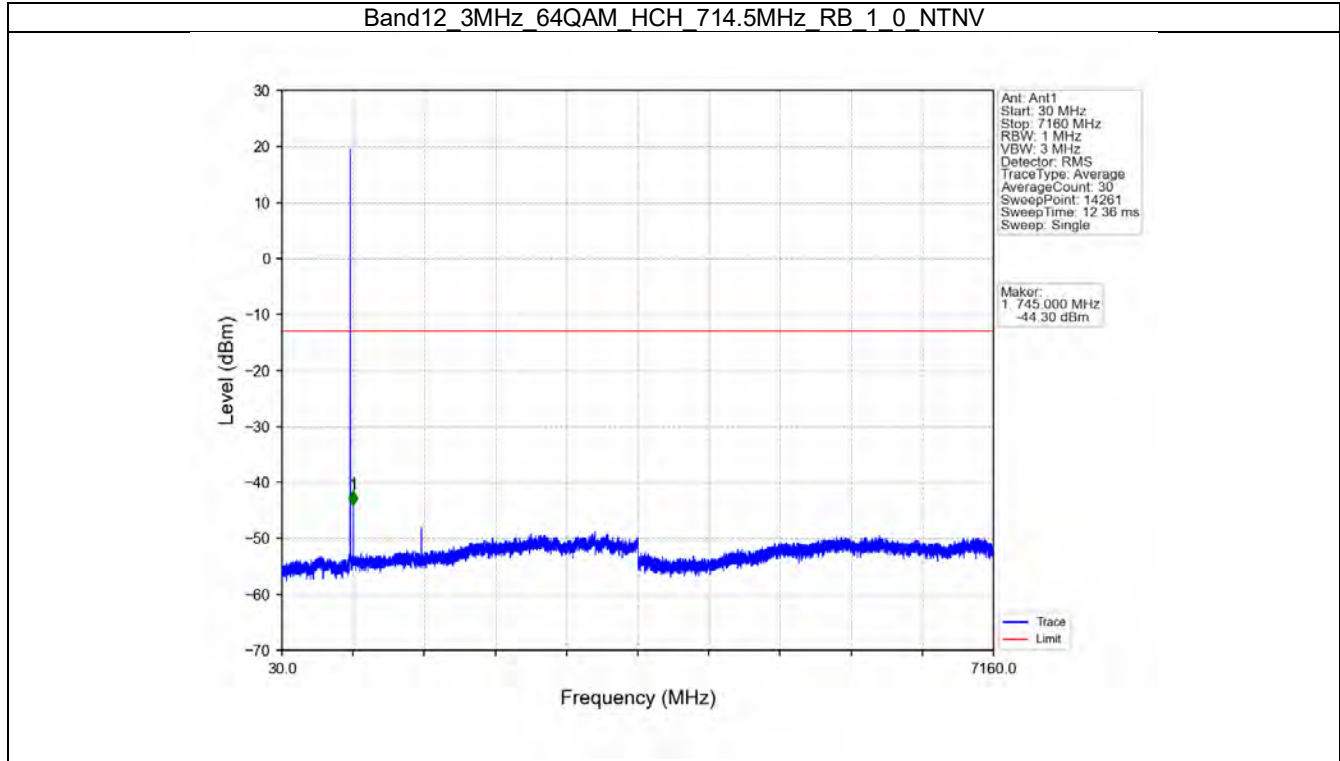


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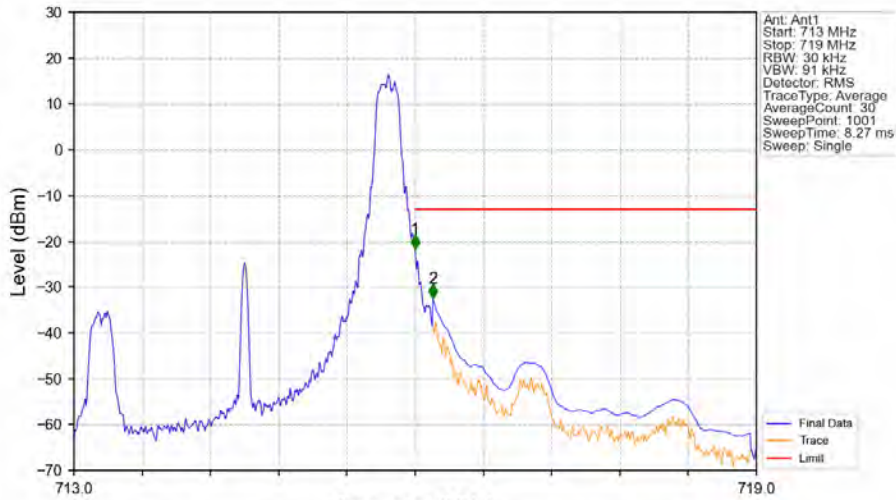
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Band12_3MHz_64QAM_HCH_714.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-21.65	-13	Pass
716.1	719	0.1	CHP	2	716.156	-32.49	-13	Pass



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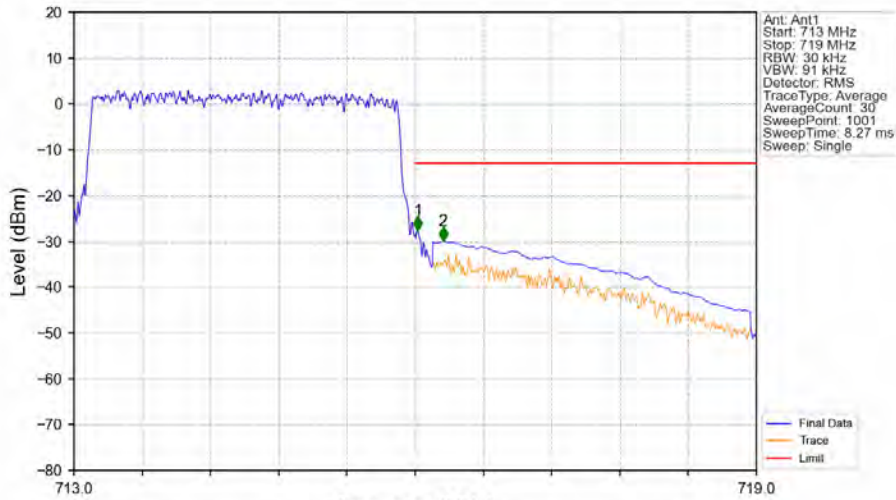
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Band12_3MHz_64QAM_HCH_714.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.024	-27.63	-13	Pass
716.1	719	0.1	CHP	2	716.246	-29.90	-13	Pass



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5.3 B12_5MHz

5.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
		1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
		1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
64QAM	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
		1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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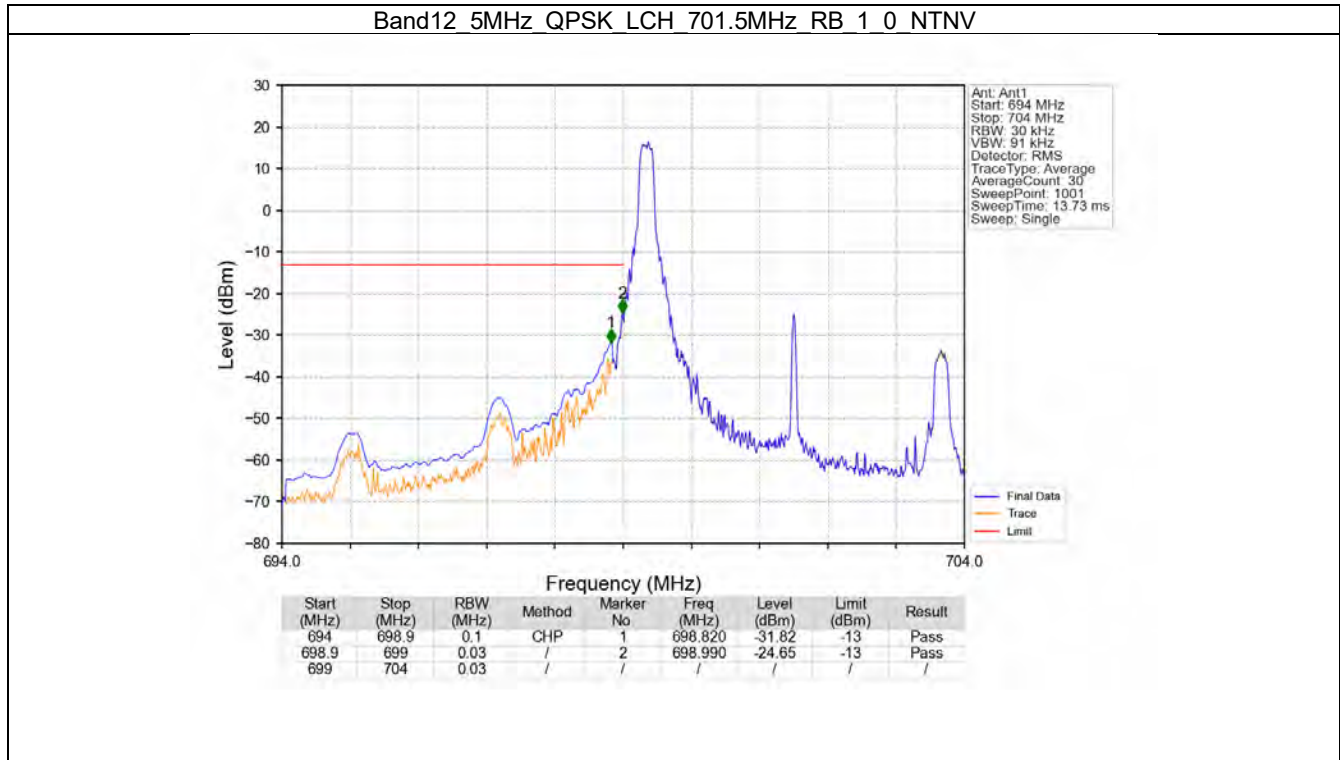
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5.3.2 Test Graph



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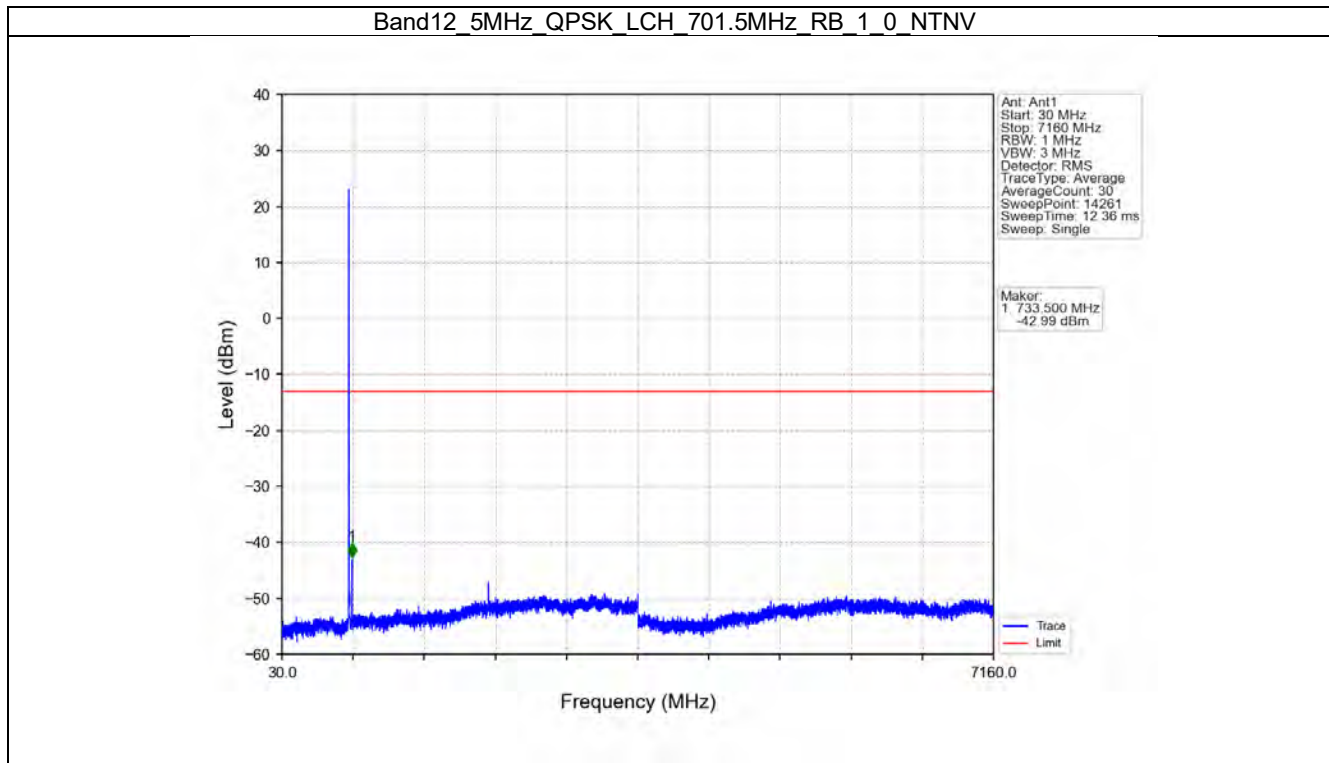
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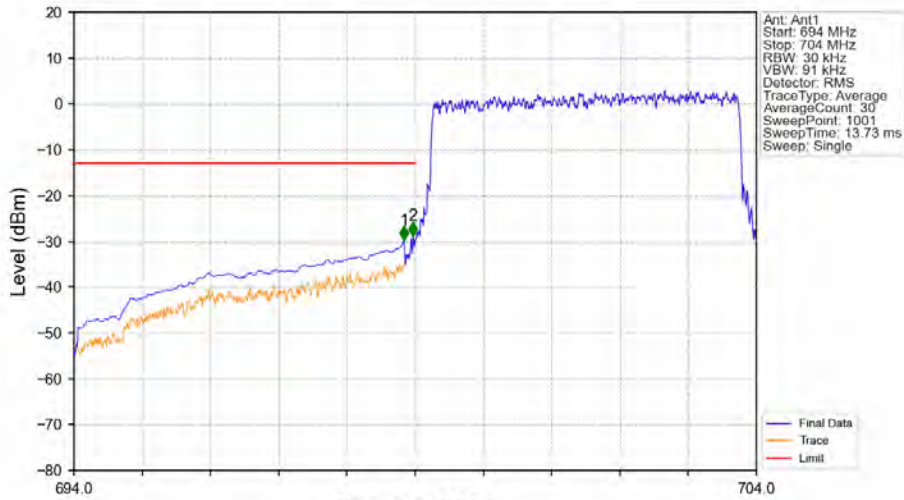
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Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-29.80	-13	Pass
698.9	699	0.03	/	2	698.970	-28.77	-13	Pass
699	704	0.03	/	/	/	/	/	/



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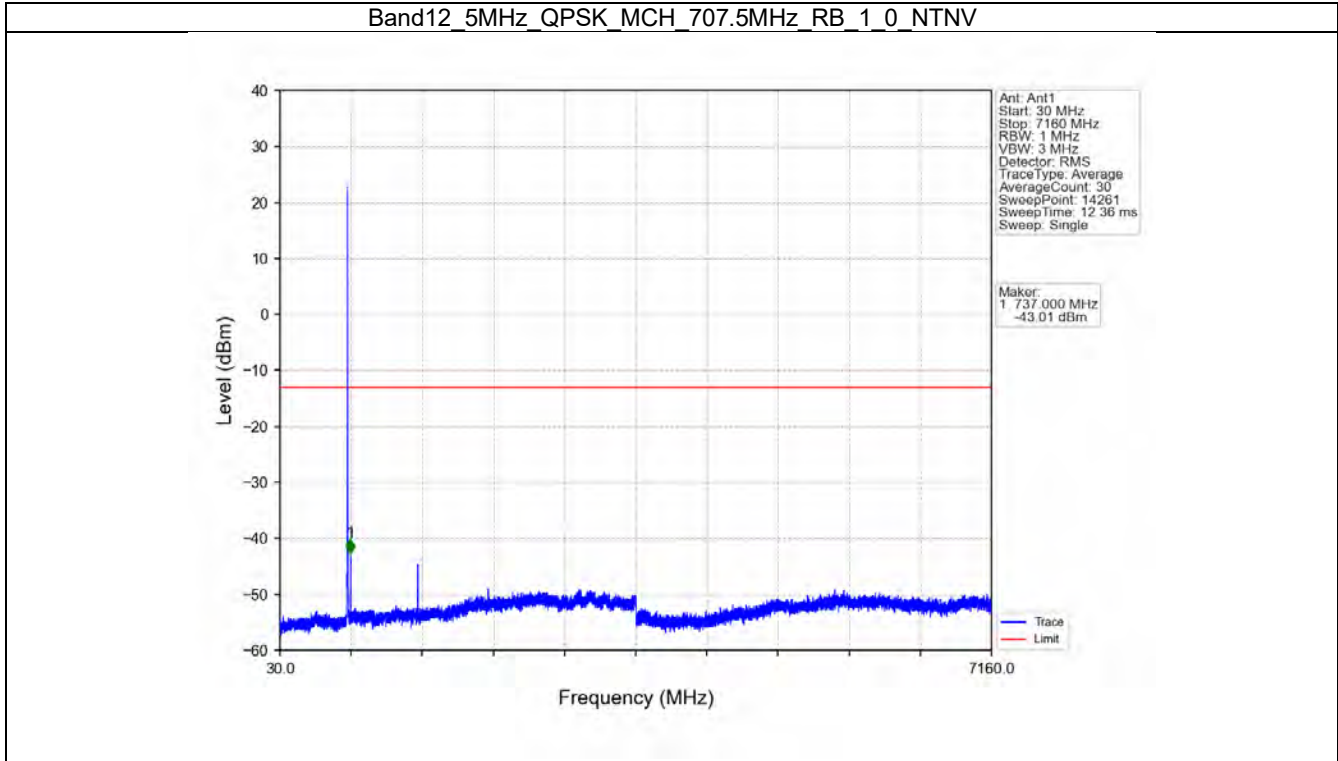


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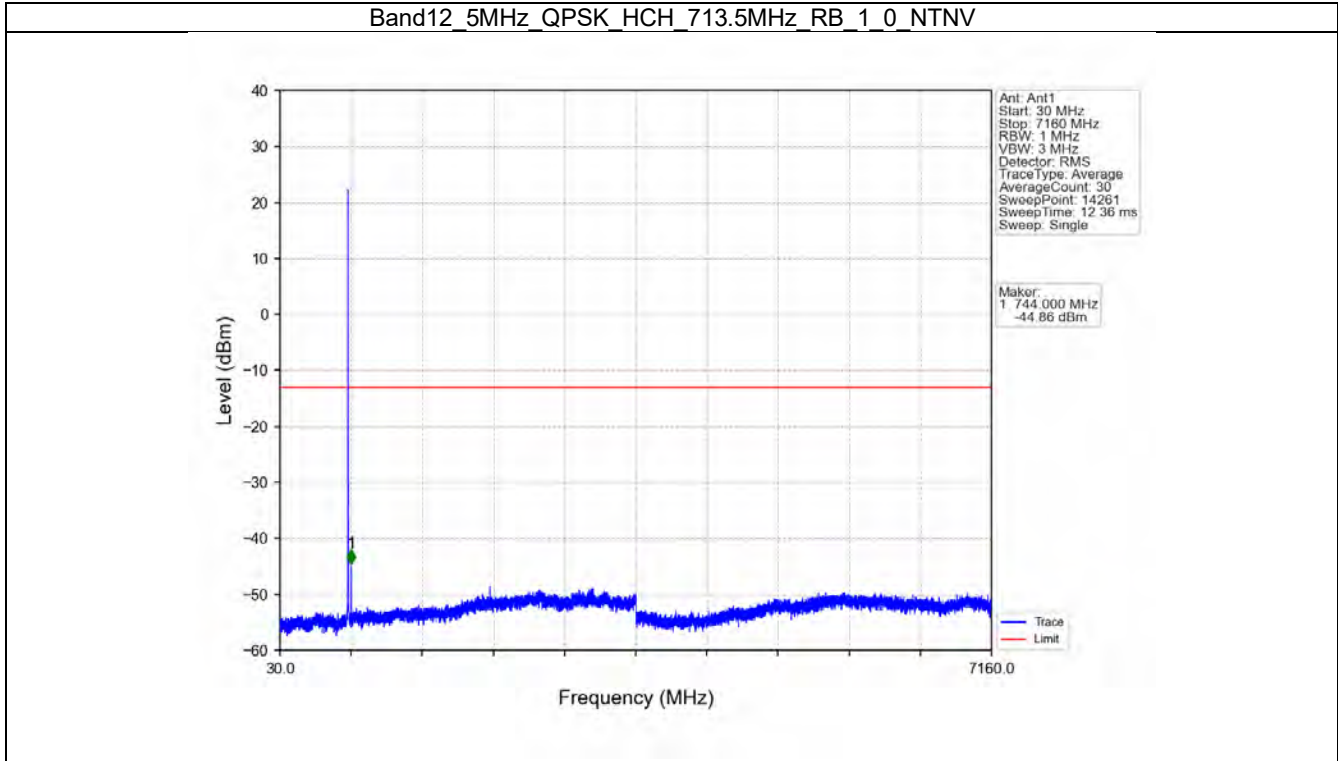


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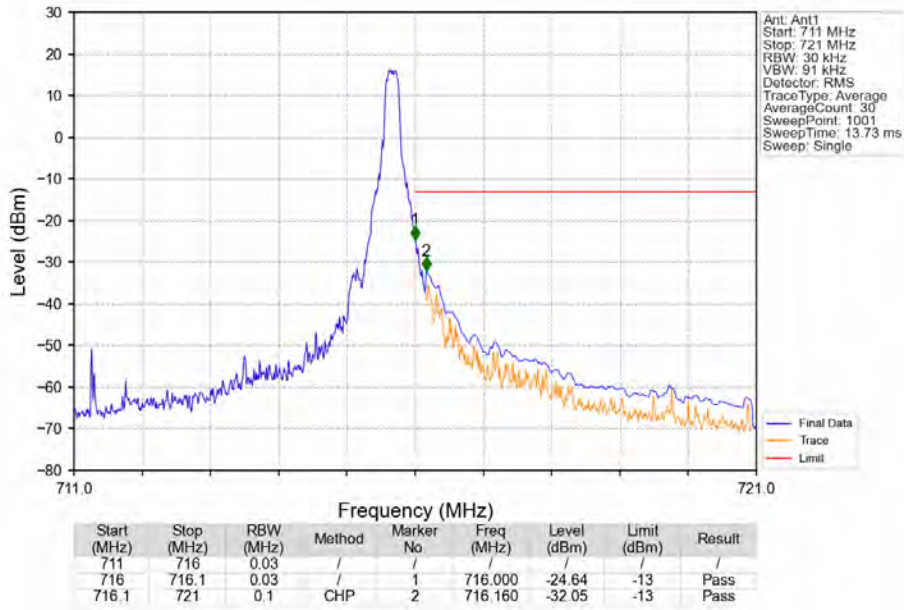
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Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



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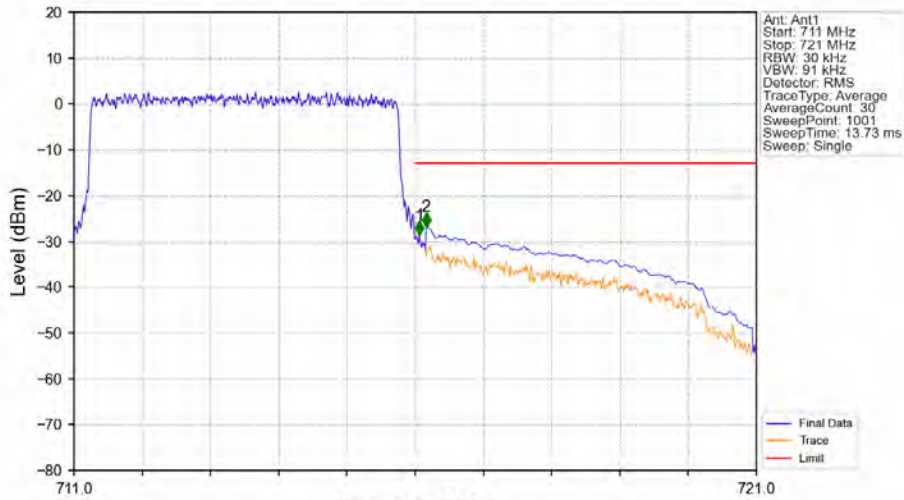
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Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.060	-28.67	-13	Pass
716.1	721	0.1	CHP	2	716.160	-26.85	-13	Pass



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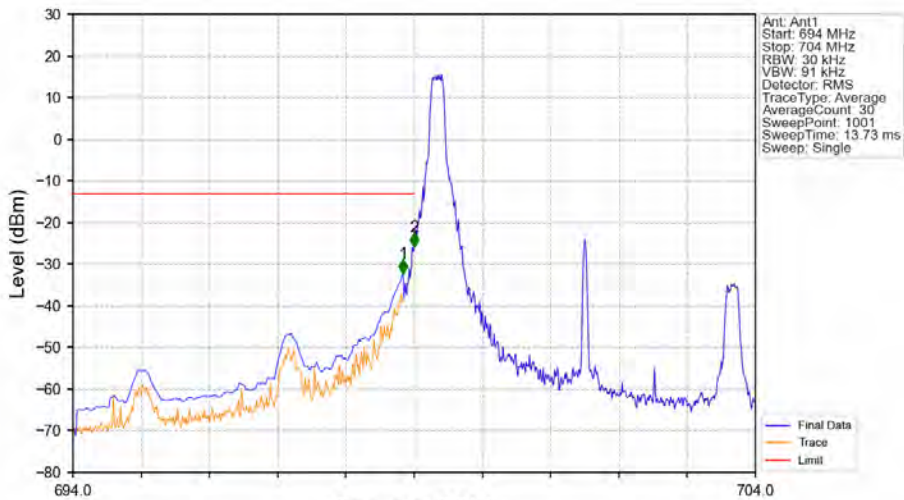
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Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-32.27	-13	Pass
698.9	699	0.03	/	2	699.000	-25.90	-13	Pass
699	704	0.03	/	/	/	/	/	/



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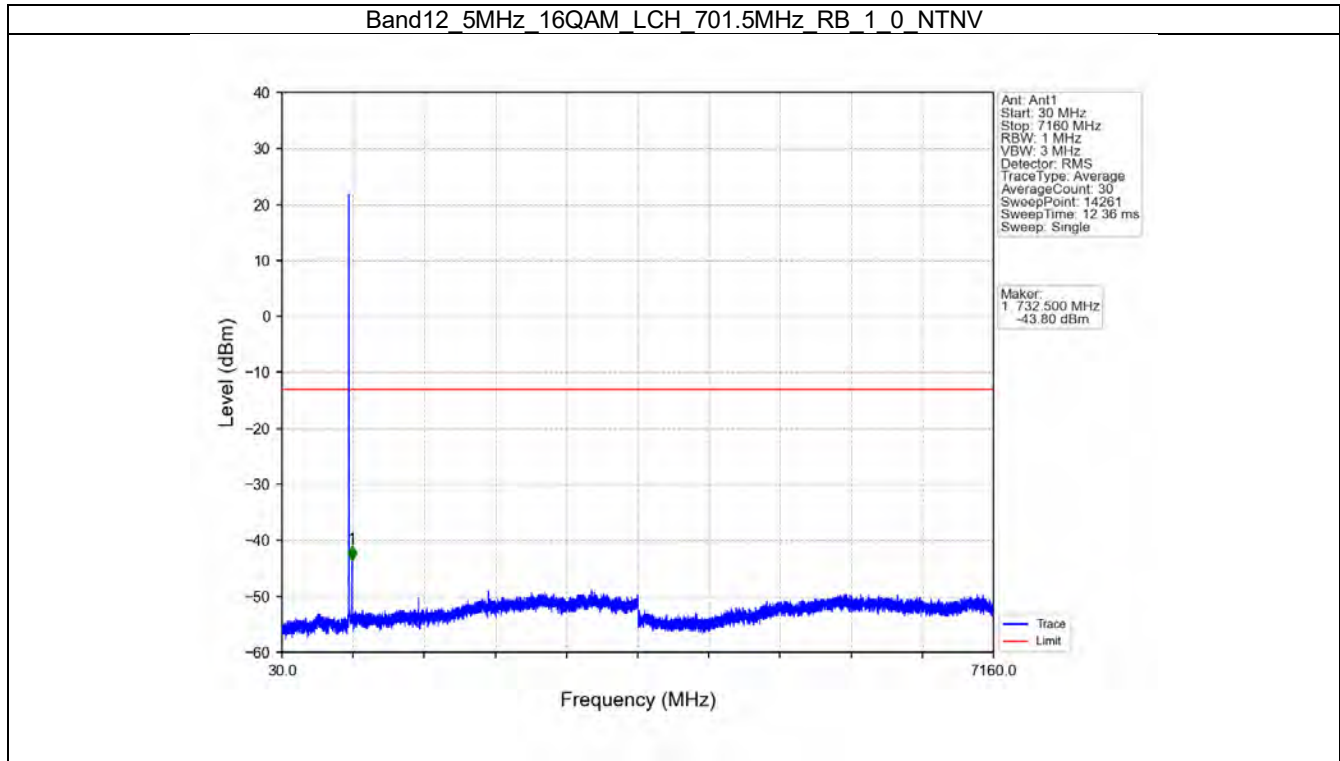


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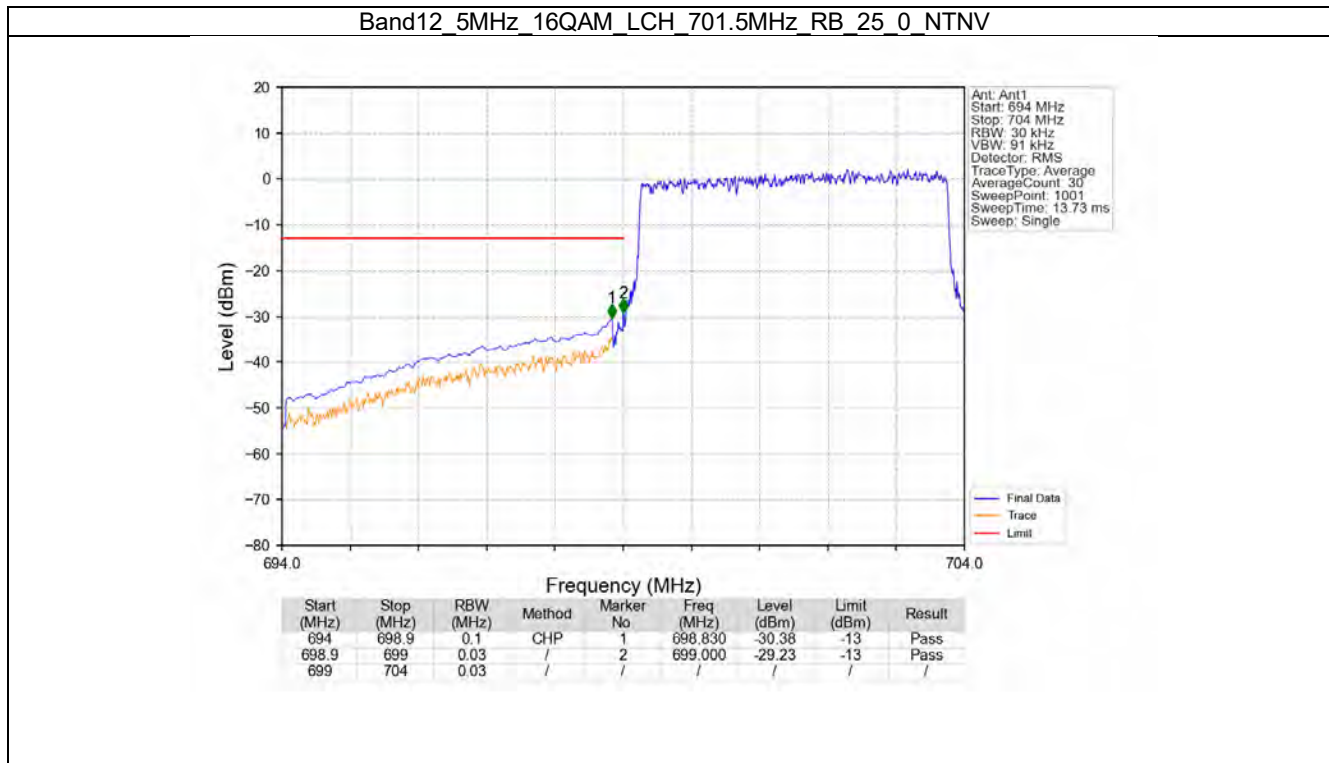
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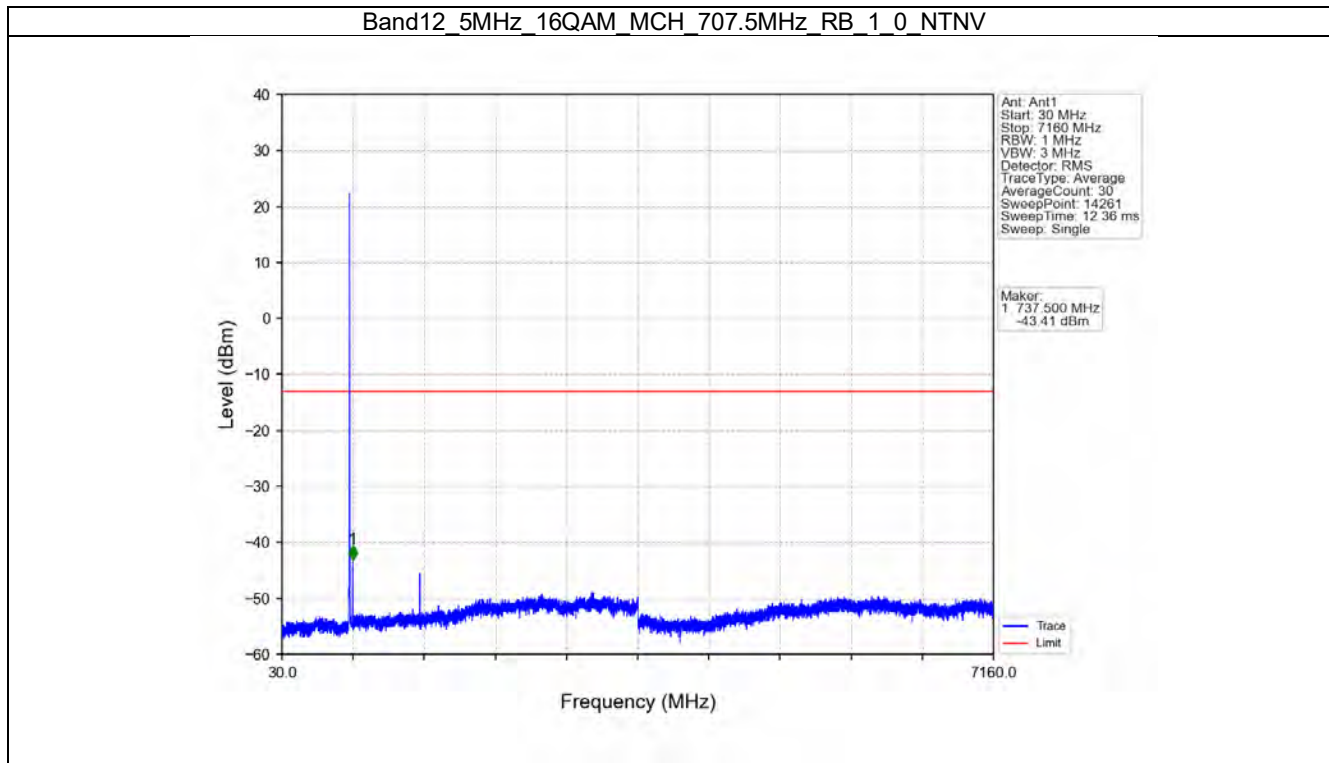
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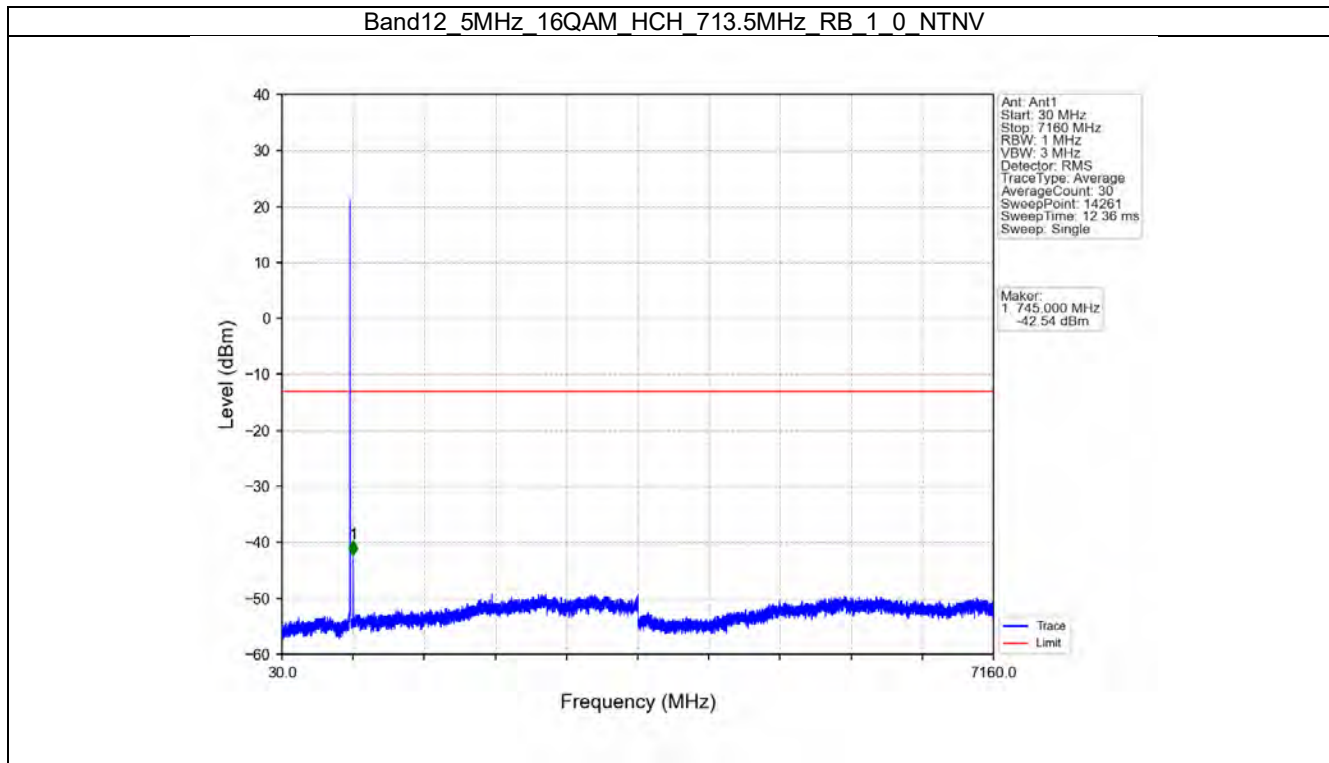
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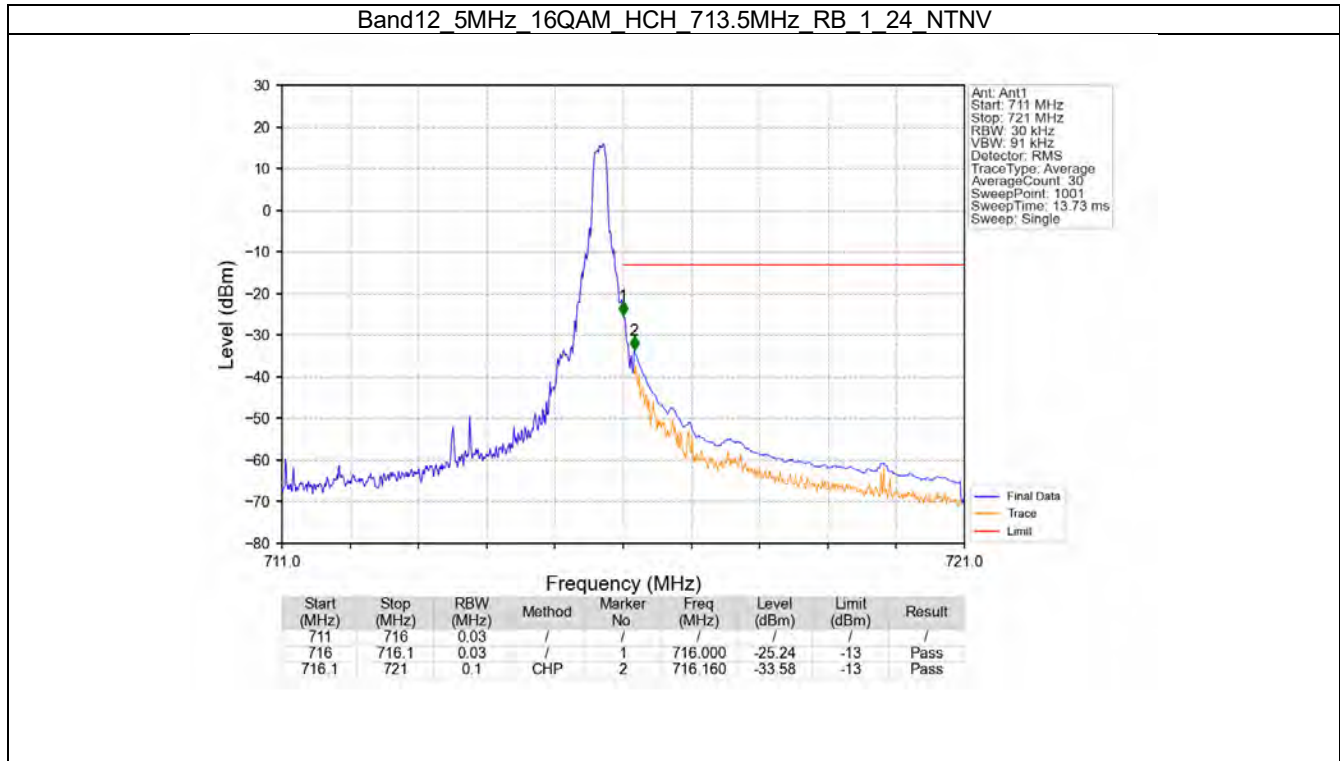


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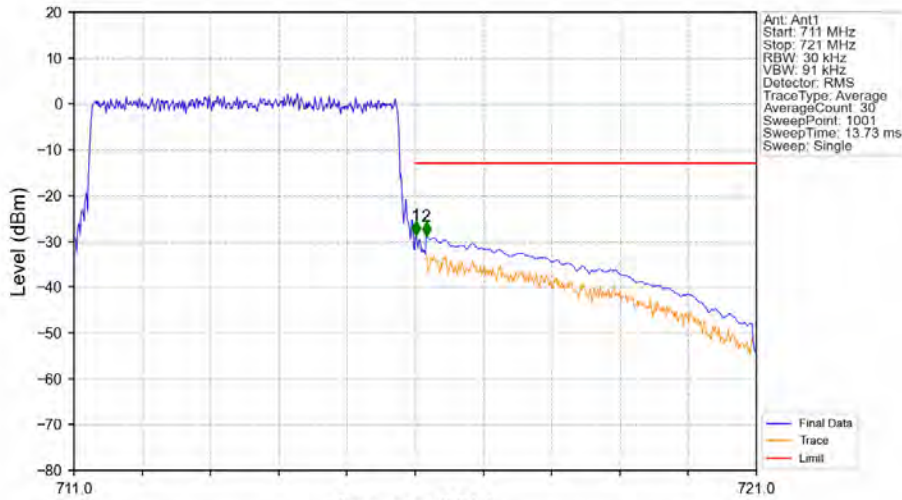
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Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-28.64	-13	Pass
716.1	721	0.1	CHP	2	716.160	-28.80	-13	Pass



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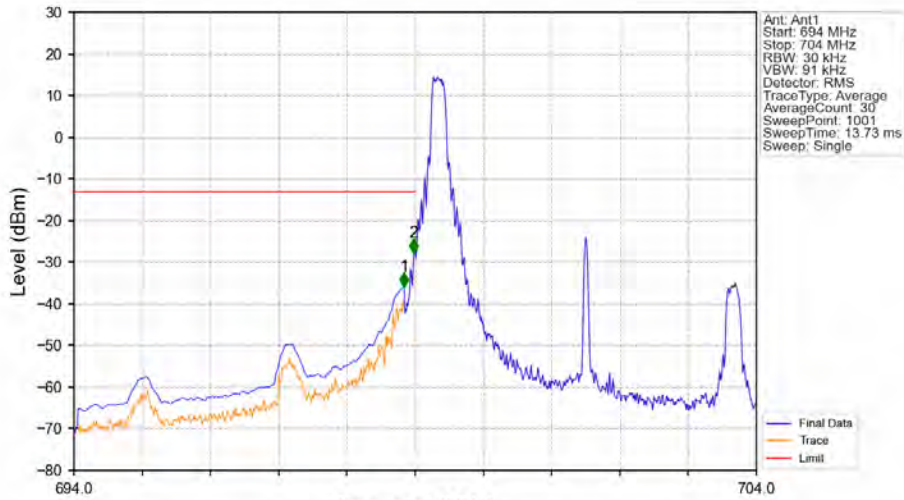
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Band12_5MHz_64QAM_LCH_701.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-35.89	-13	Pass
698.9	699	0.03	/	2	698.980	-27.73	-13	Pass
699	704	0.03	/	/	/	/	/	/



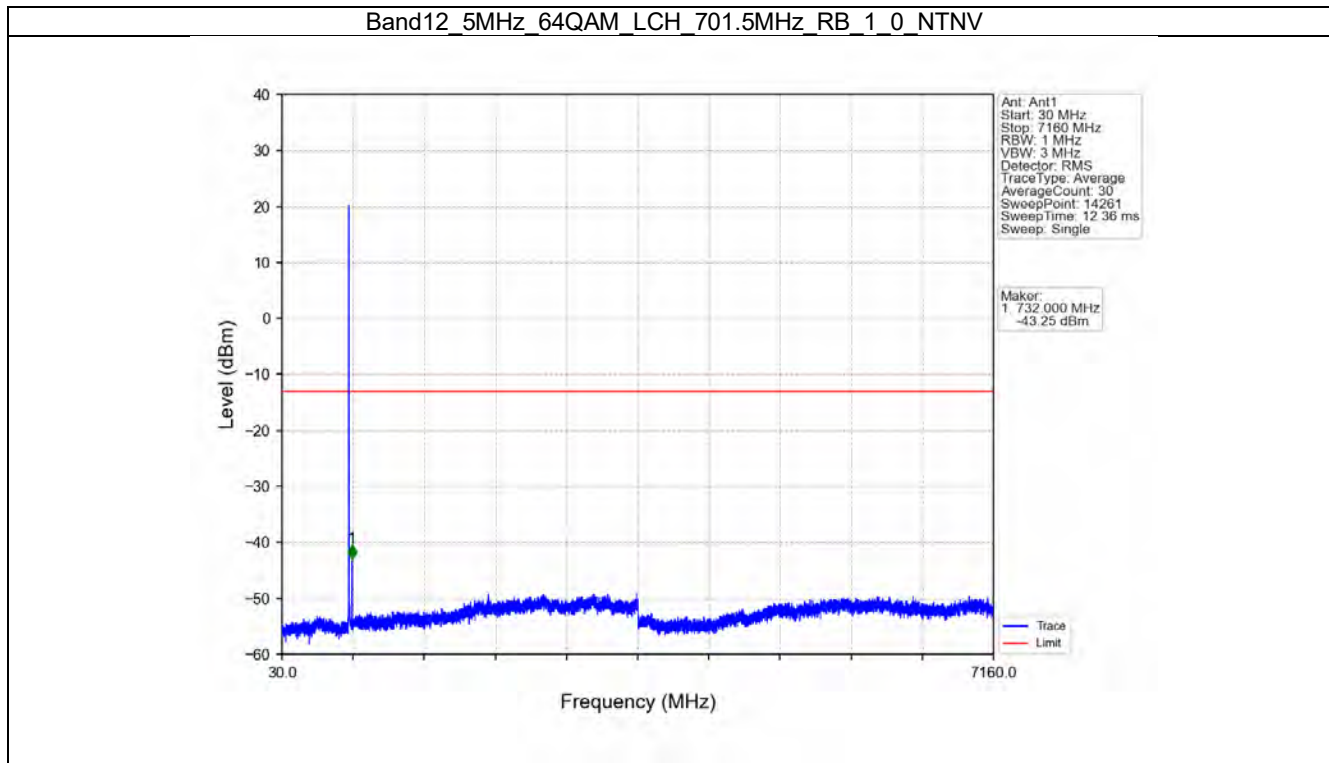
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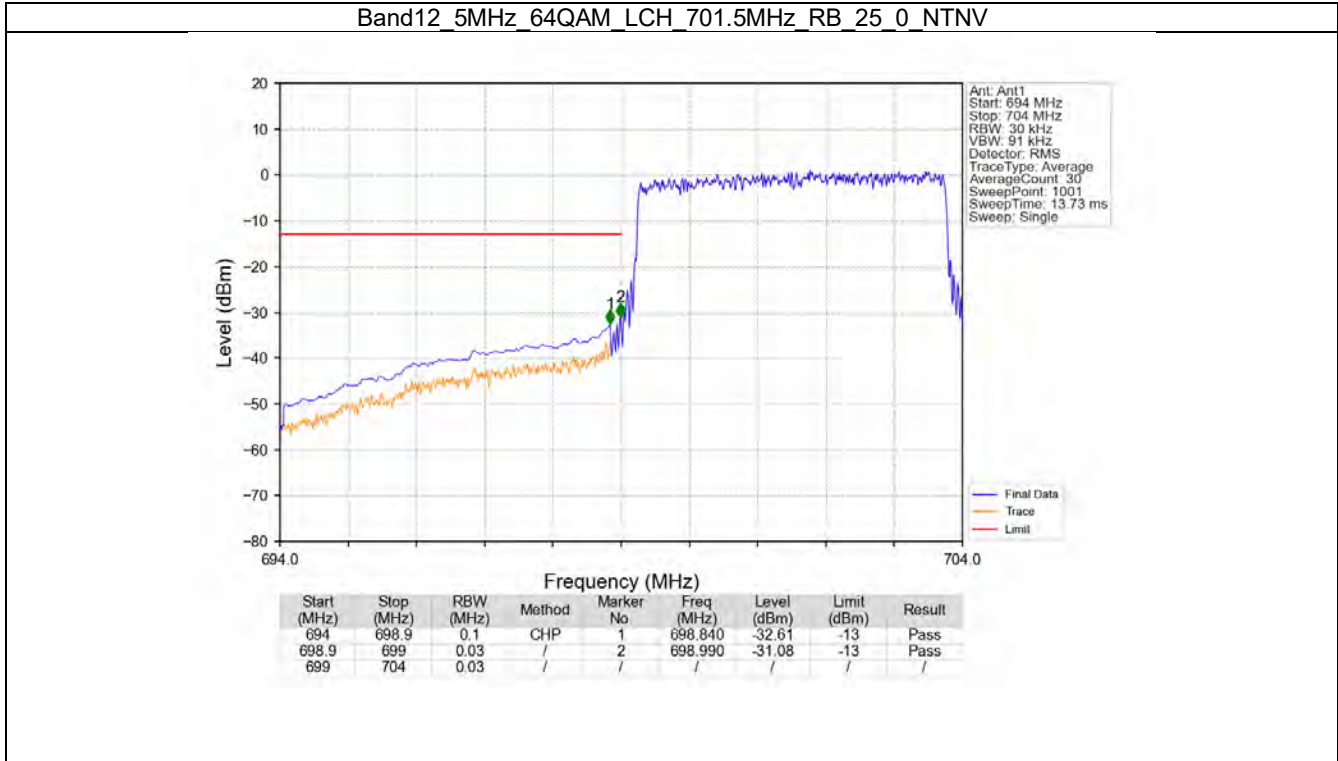


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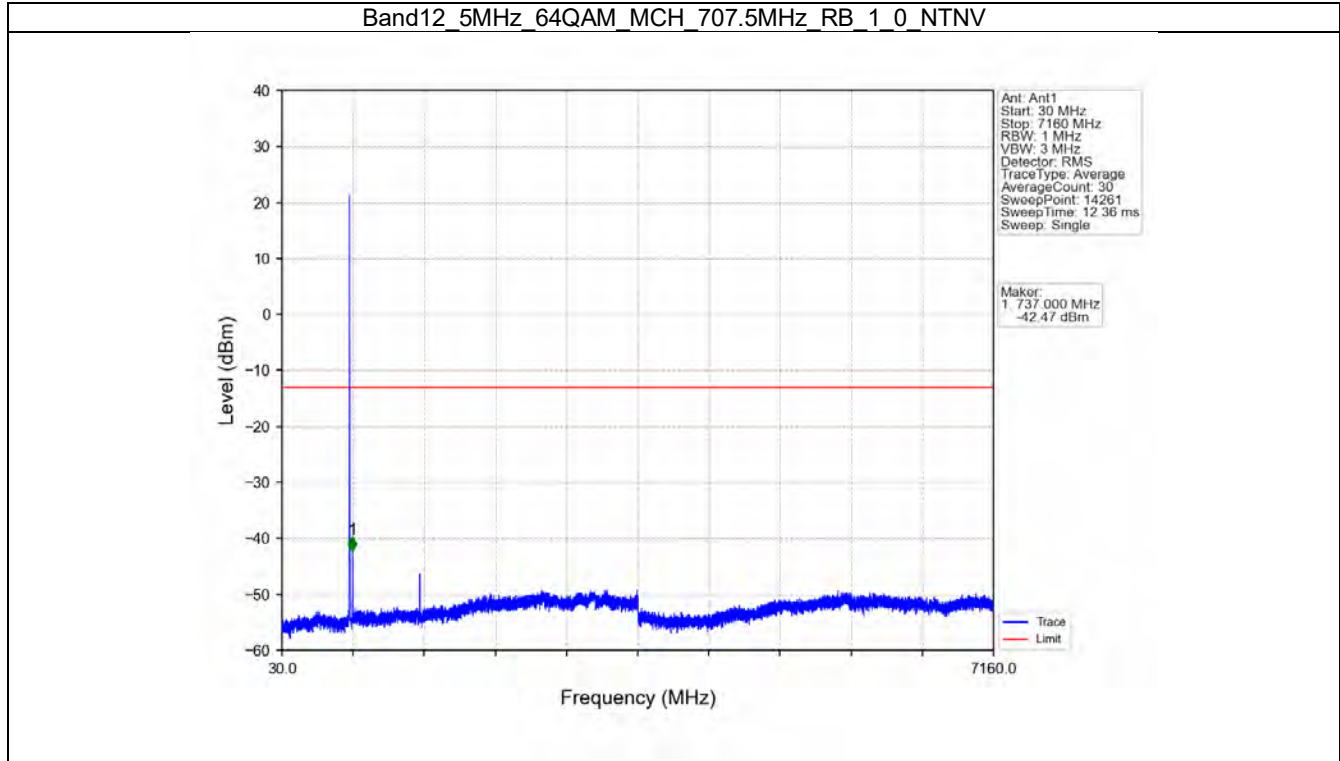


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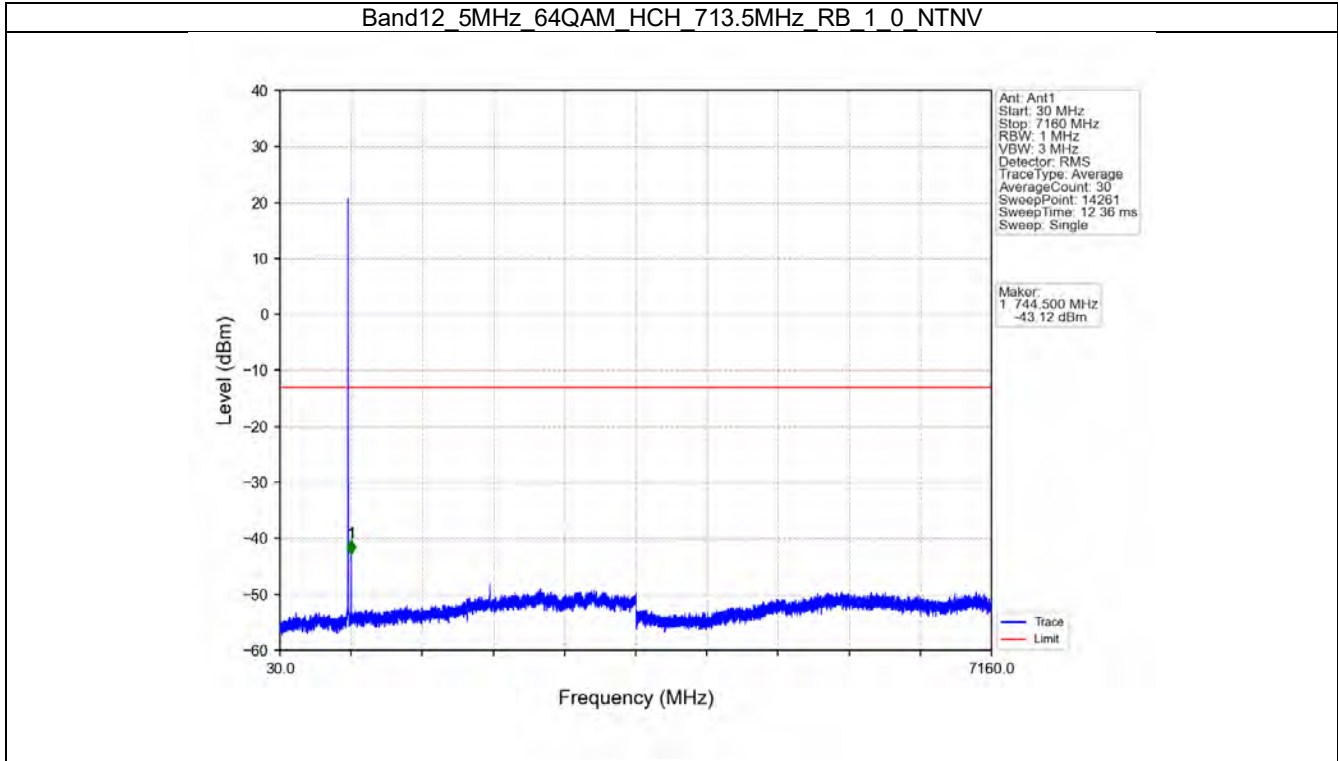


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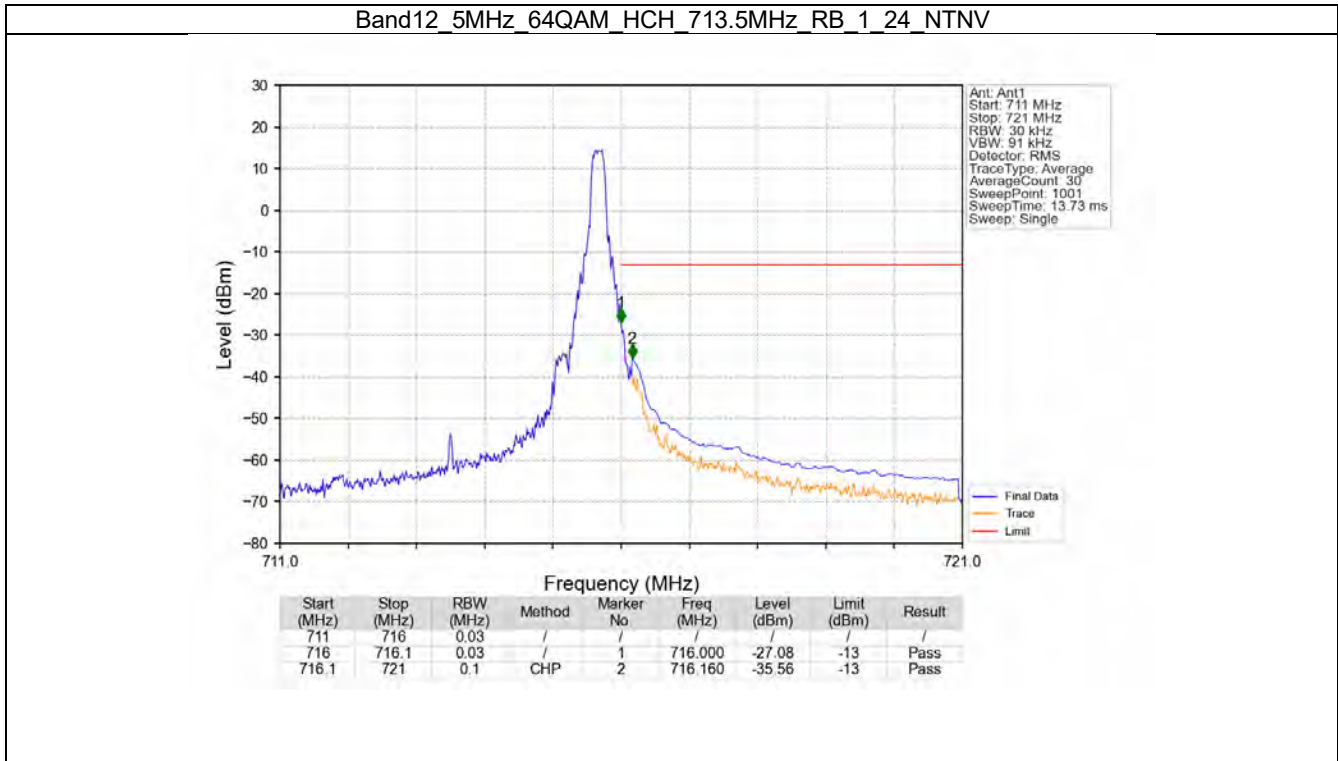


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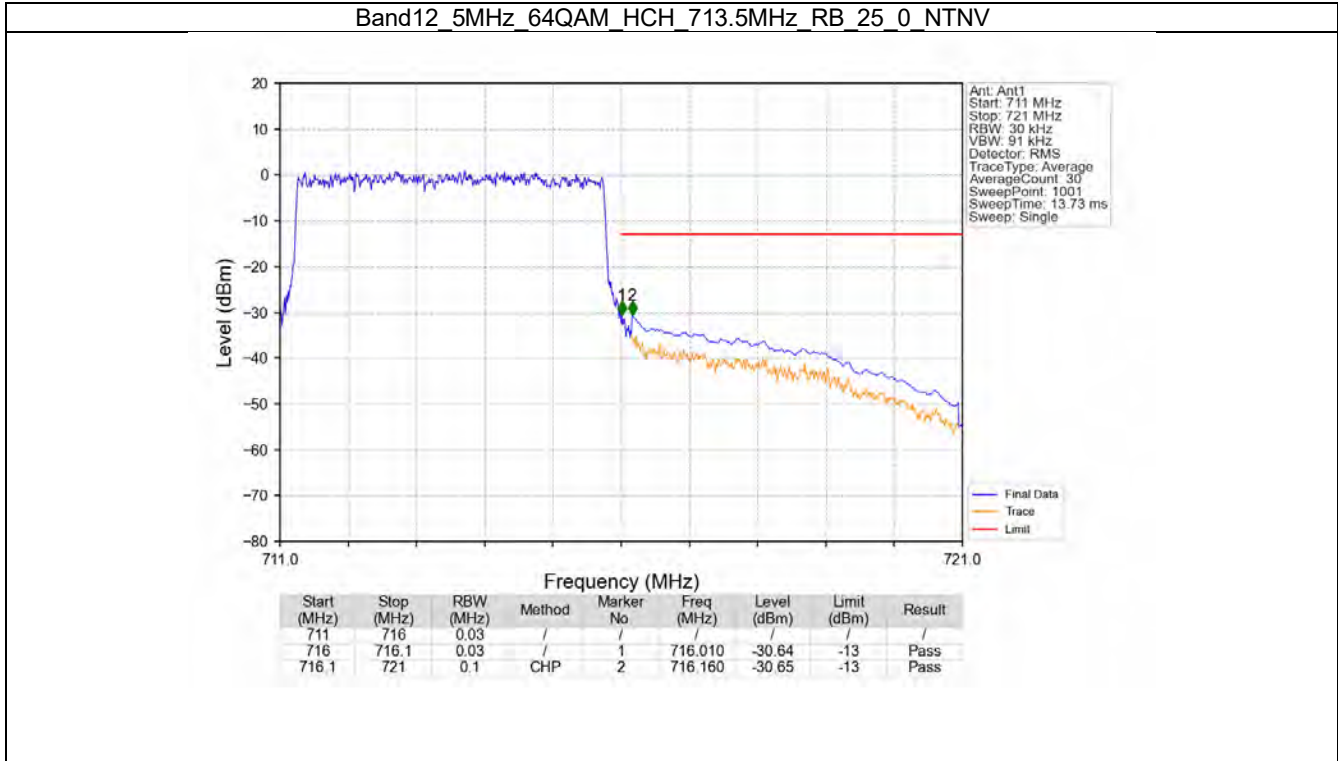


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5.4 B12_10MHz

5.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	704	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	711	1	0	Refer To Test Graph	Pass	
		1	49	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
16QAM	704	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	711	1	0	Refer To Test Graph	Pass	
		1	49	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
64QAM	704	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	711	1	0	Refer To Test Graph	Pass	
		1	49	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	



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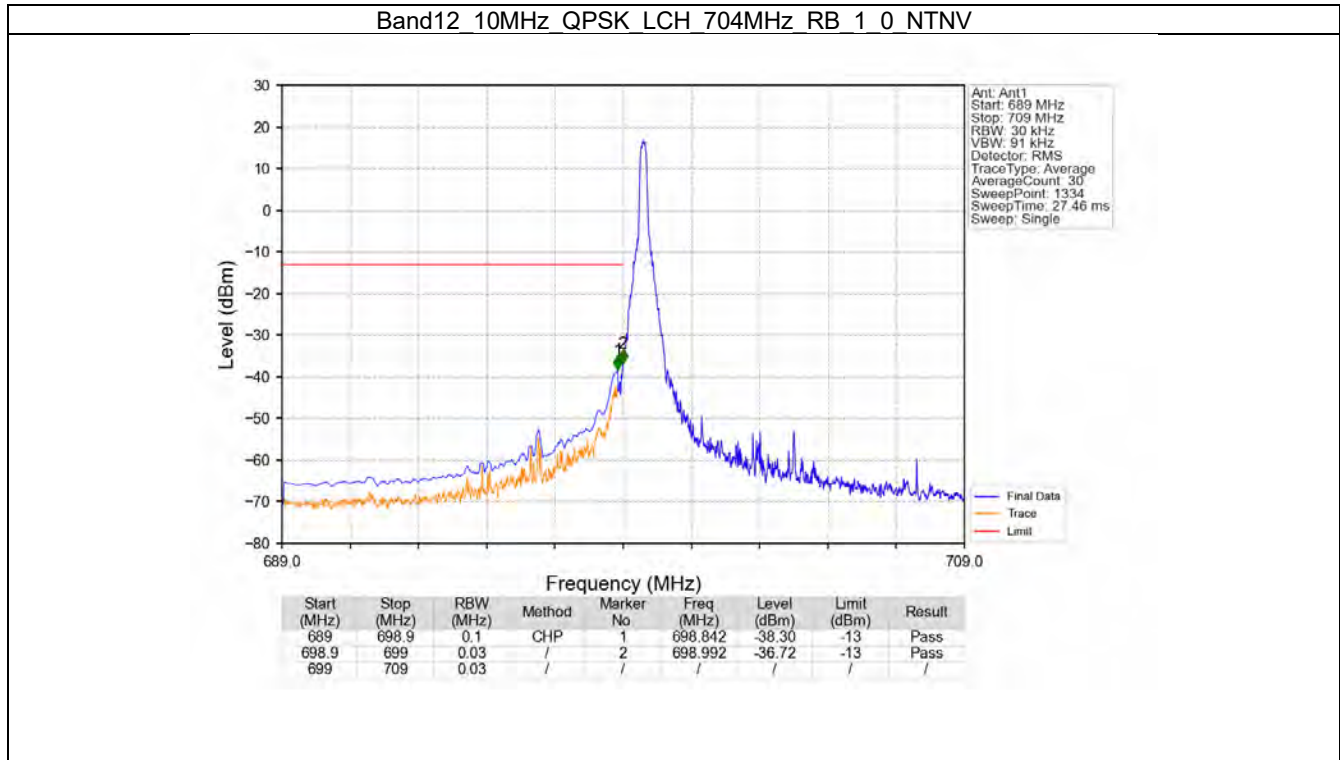
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5.4.2 Test Graph



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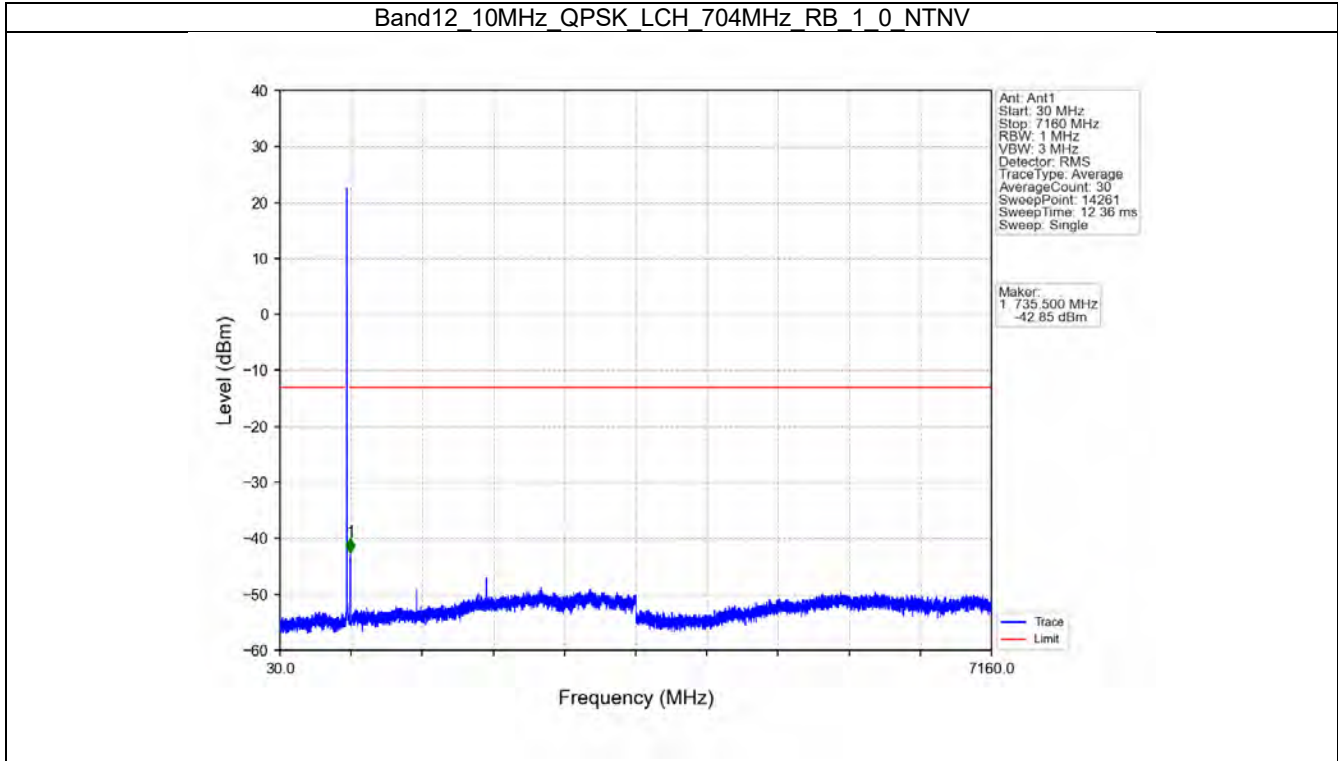


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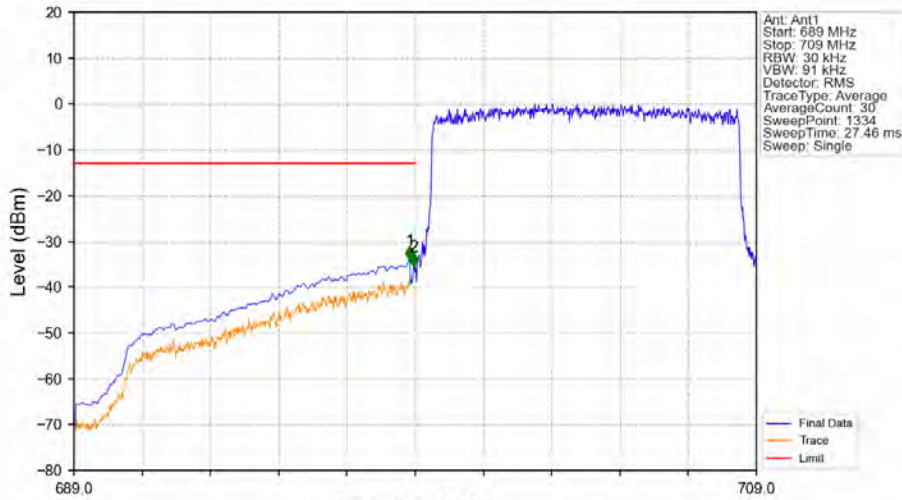
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Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-34.13	-13	Pass
698.9	699	0.03	/	2	698.962	-35.50	-13	Pass
699	709	0.03	/	/	/	/	/	/



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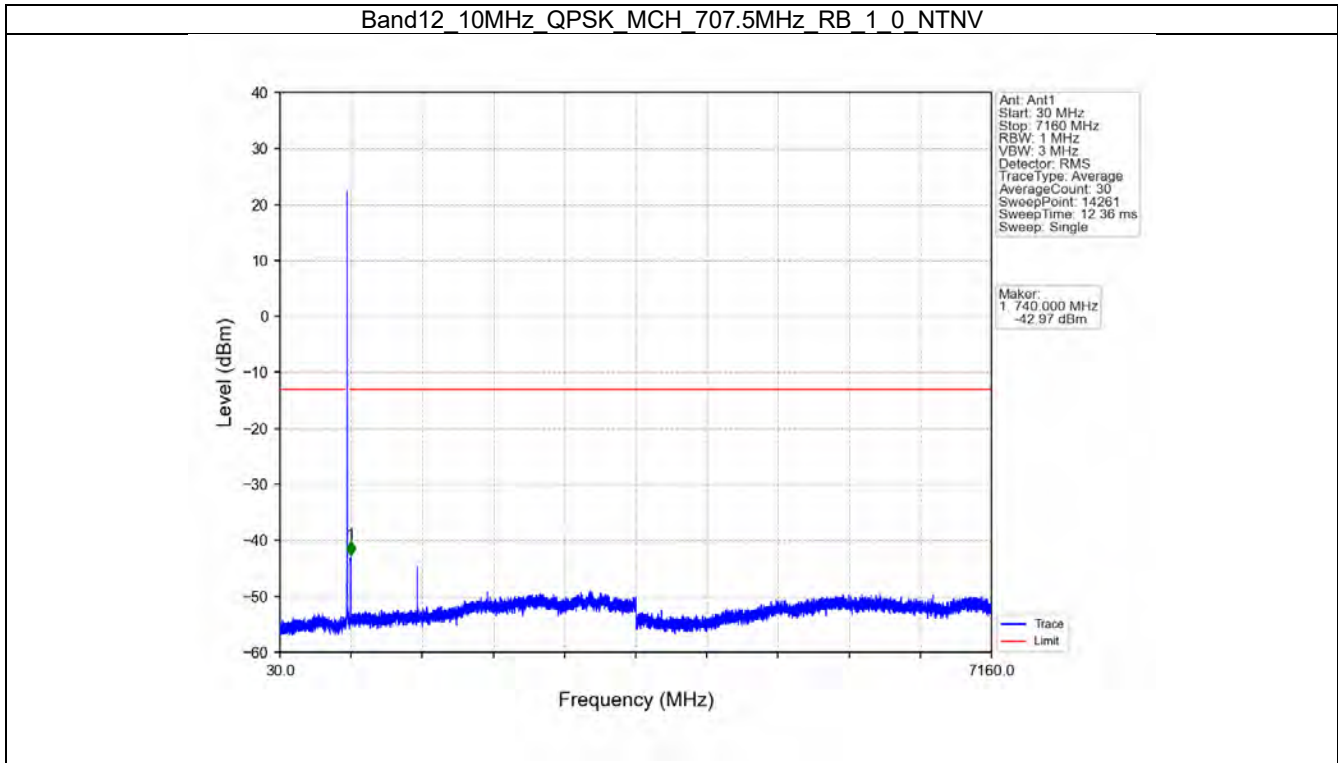


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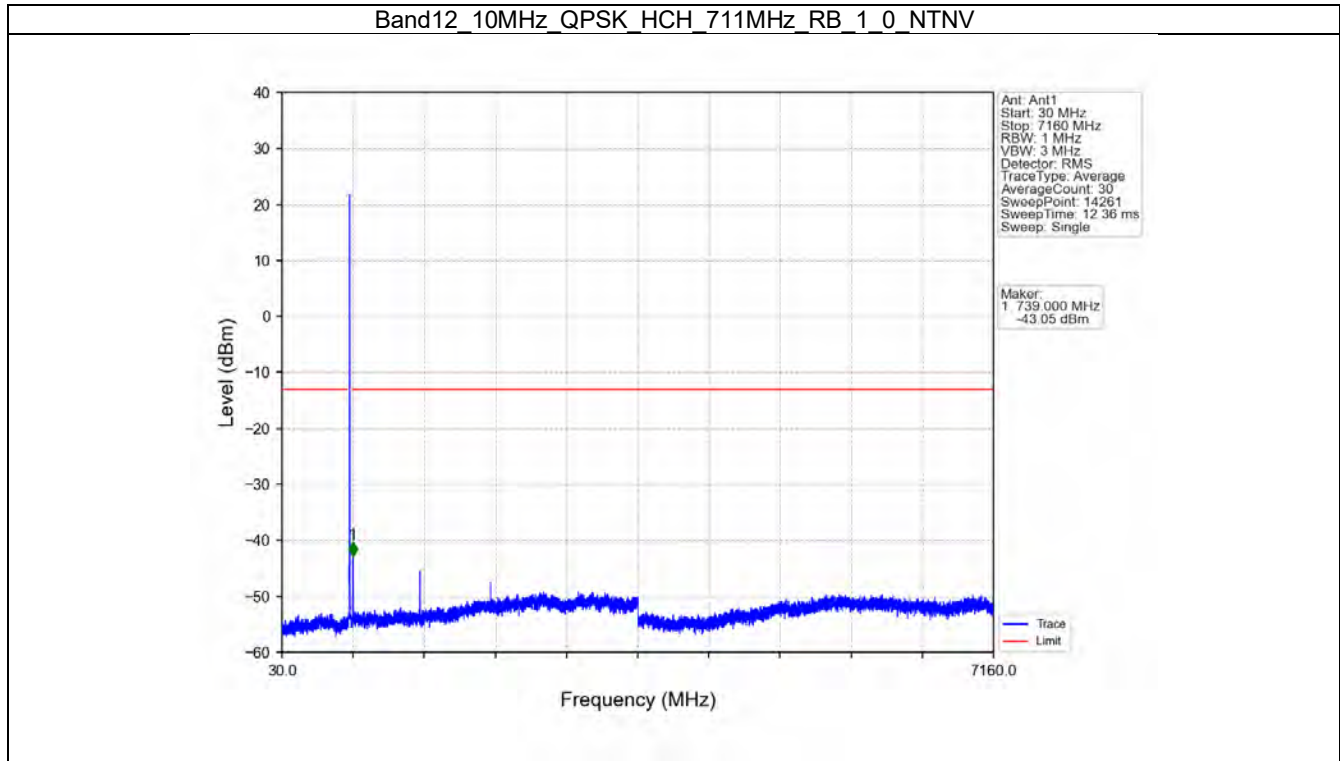


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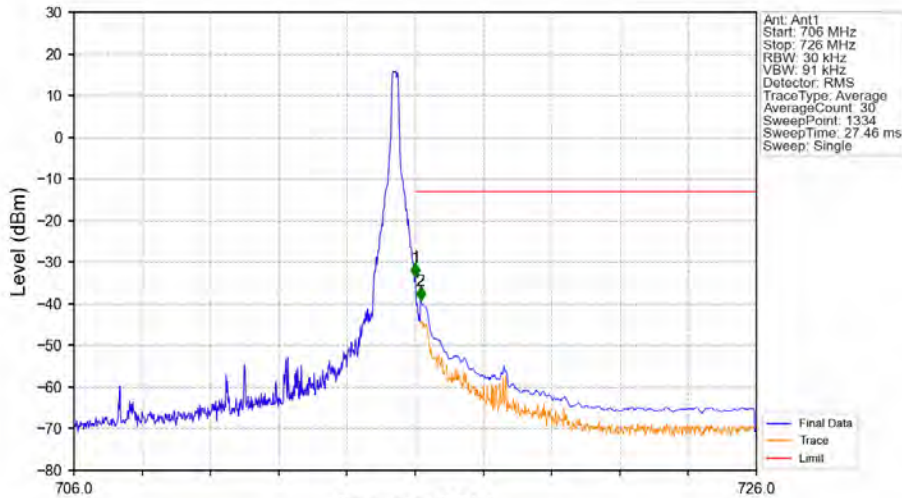
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Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-33.65	-13	Pass
716.1	726	0.1	CHP	2	716.158	-39.32	-13	Pass



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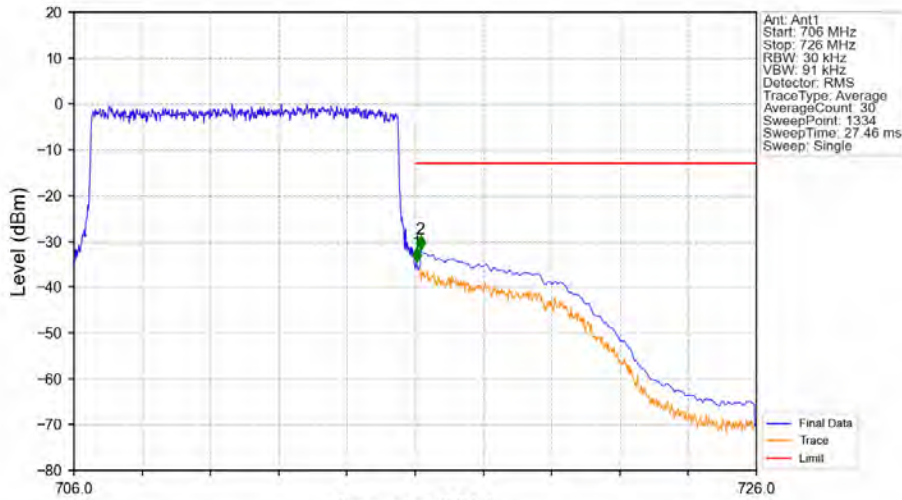
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Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.038	-34.56	-13	Pass
716.1	726	0.1	CHP	2	716.158	-31.78	-13	Pass



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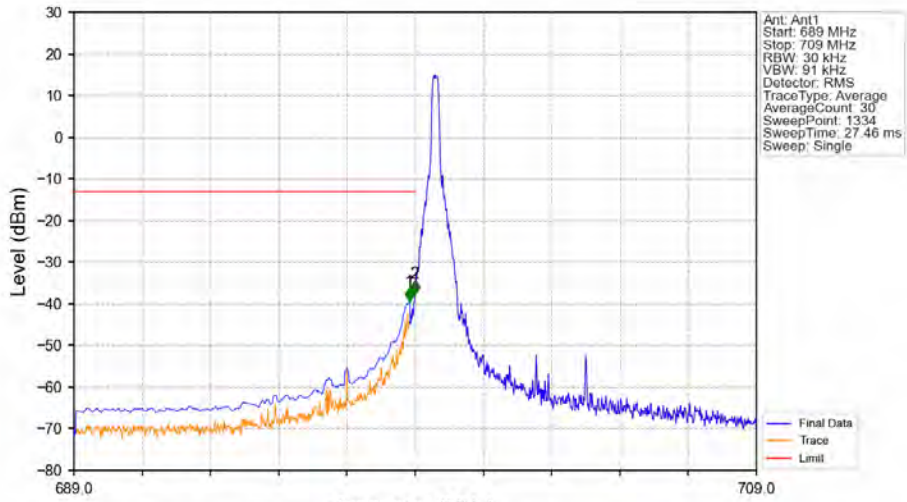
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Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.827	-39.50	-13	Pass
698.9	699	0.03	/	2	698.992	-37.61	-13	Pass
699	709	0.03	/	/	/	/	/	/



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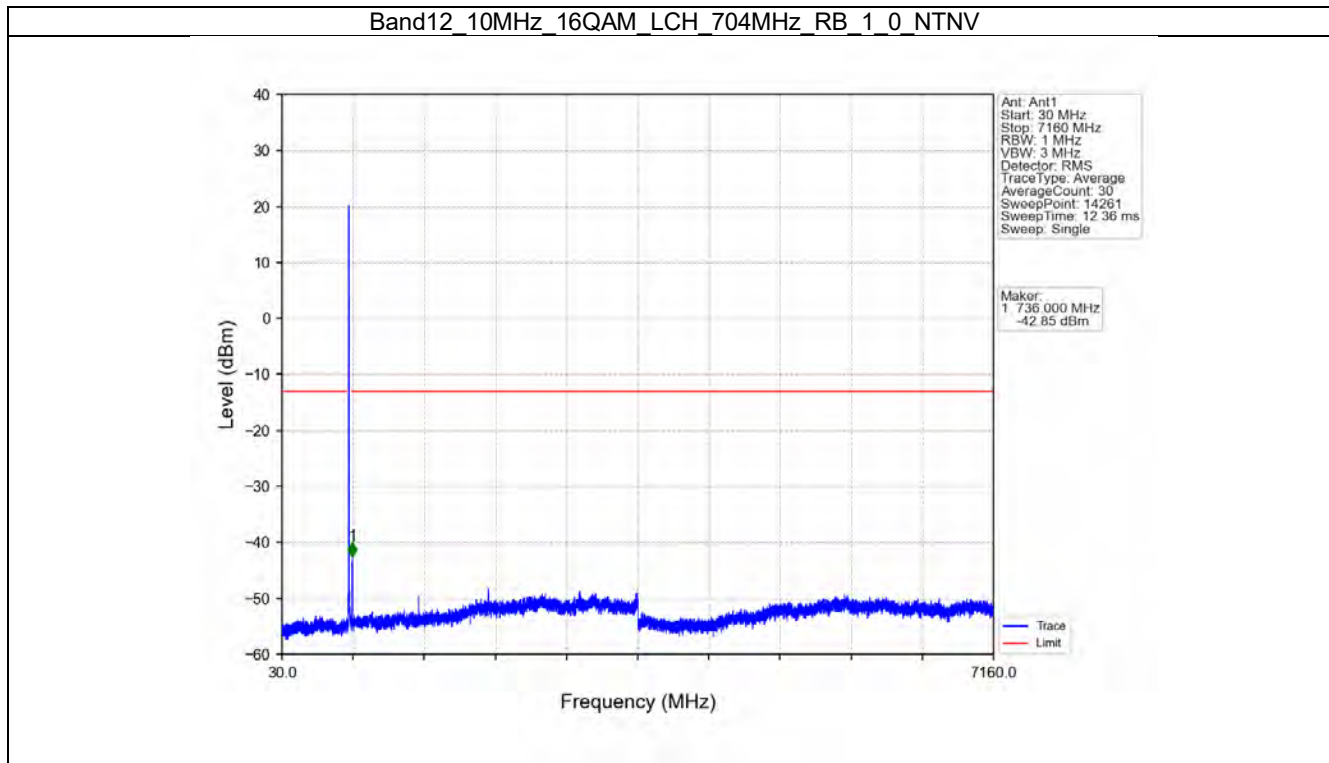
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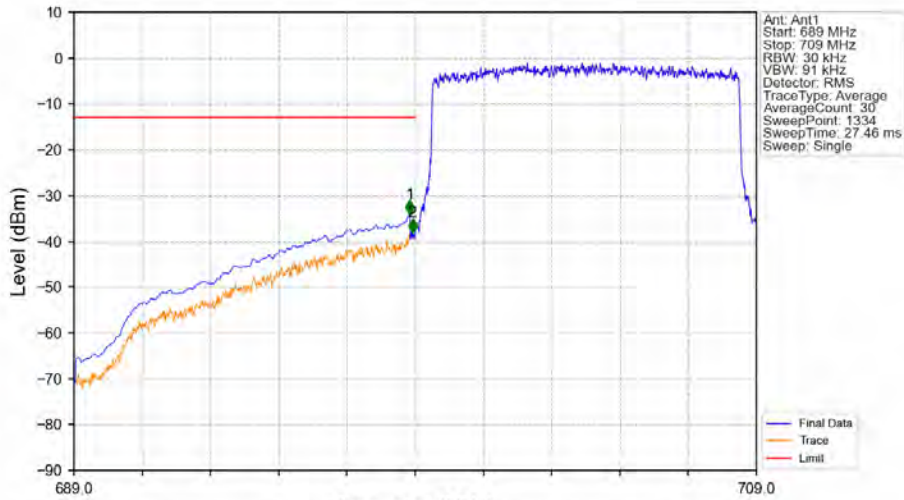
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Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-34.13	-13	Pass
698.9	699	0.03	/	2	698.917	-38.07	-13	Pass
699	709	0.03	/	/	/	/	/	/



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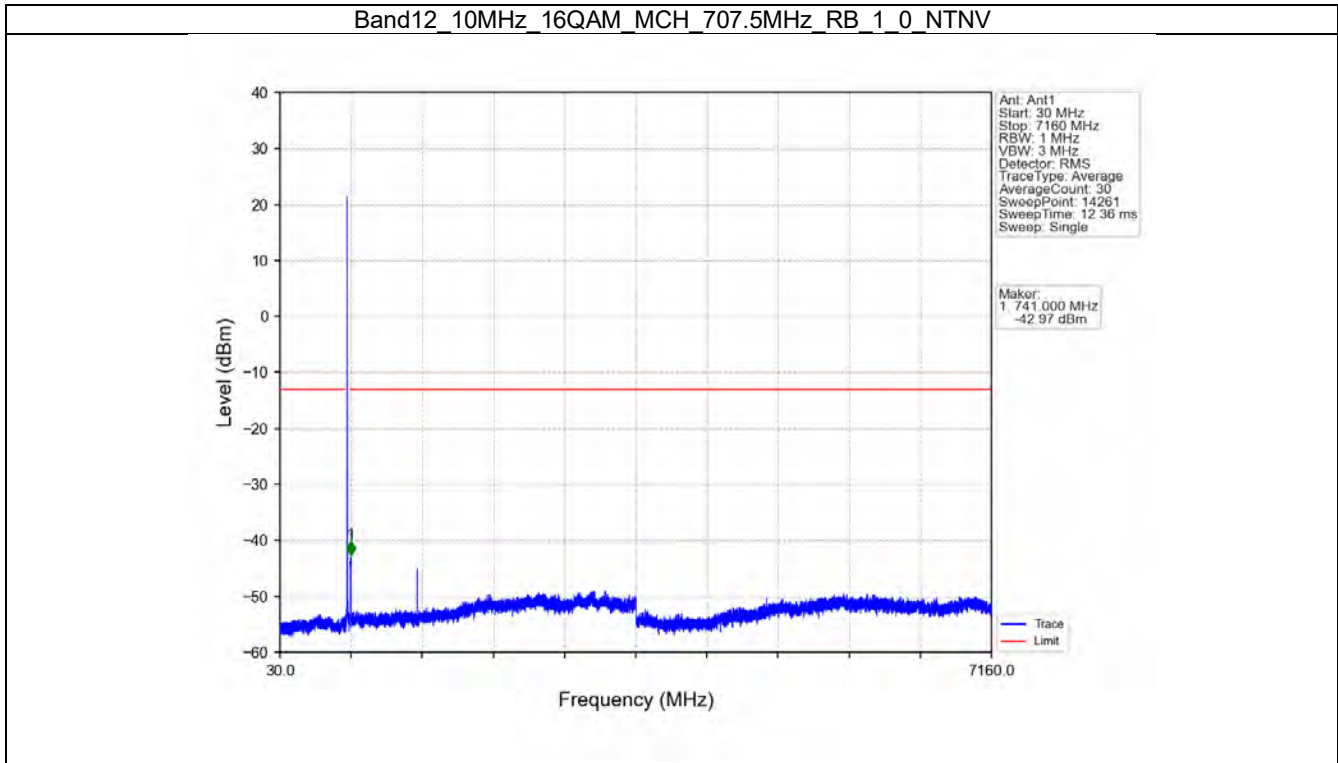


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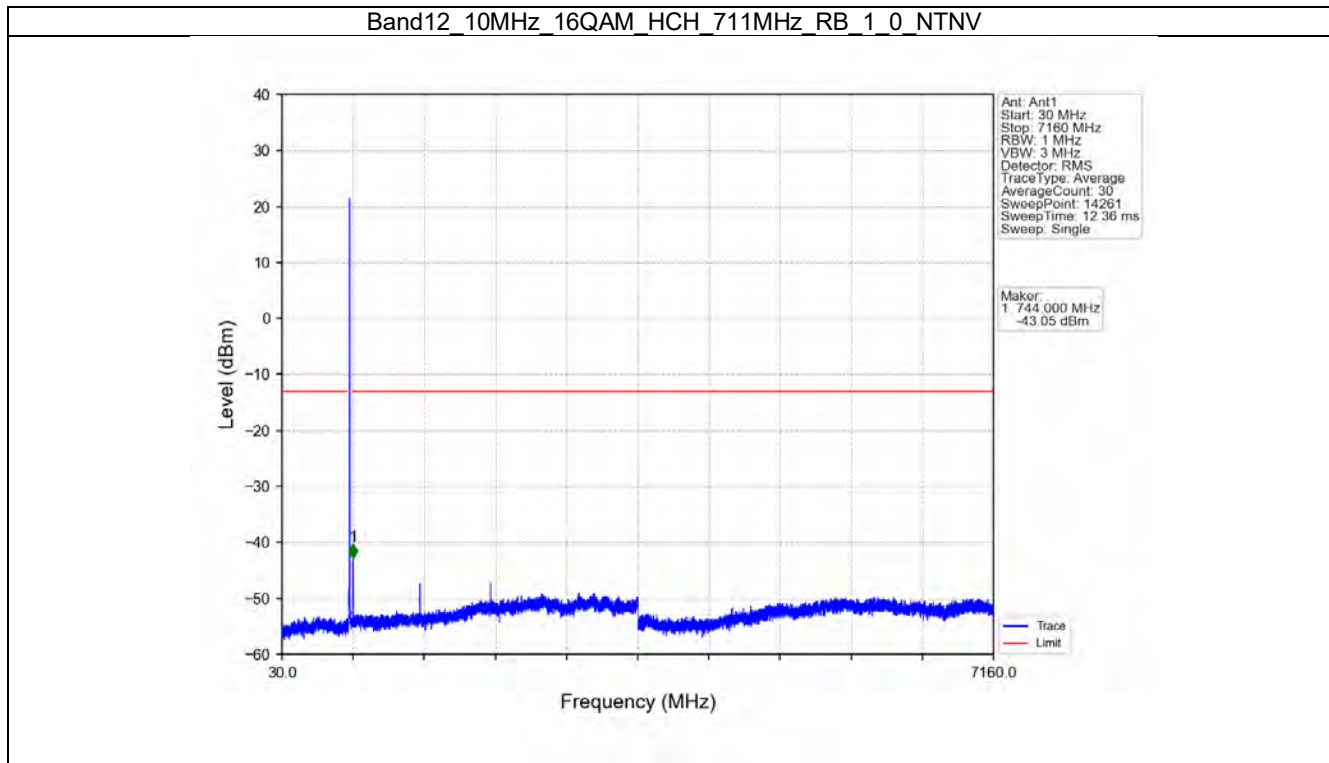
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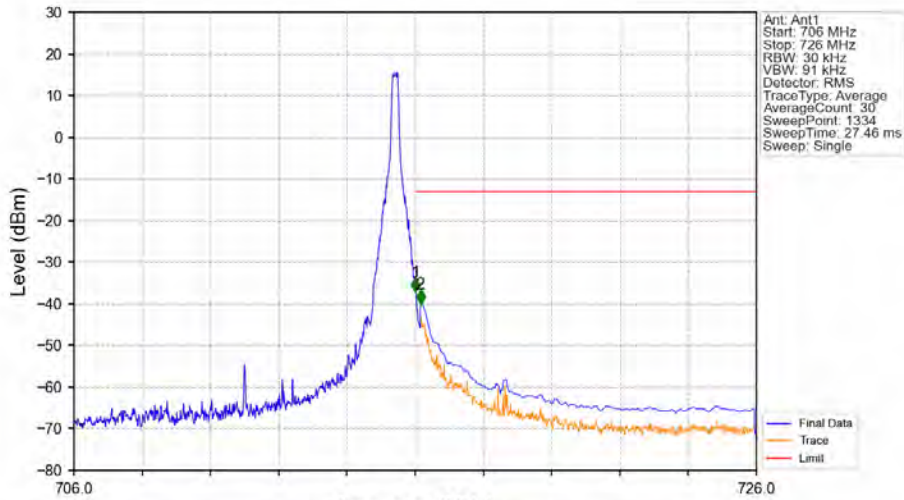
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Band12_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-37.12	-13	Pass
716.1	726	0.1	CHP	2	716.158	-40.03	-13	Pass



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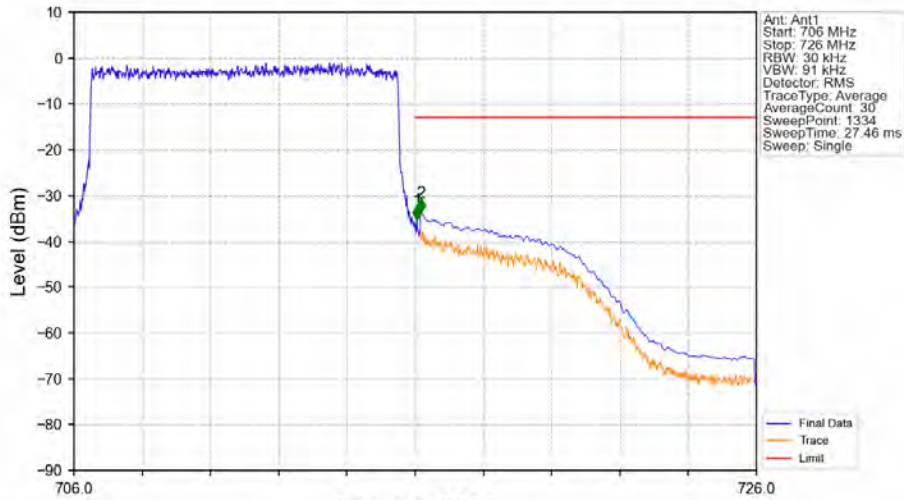
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Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.053	-35.28	-13	Pass
716.1	726	0.1	CHP	2	716.173	-33.78	-13	Pass



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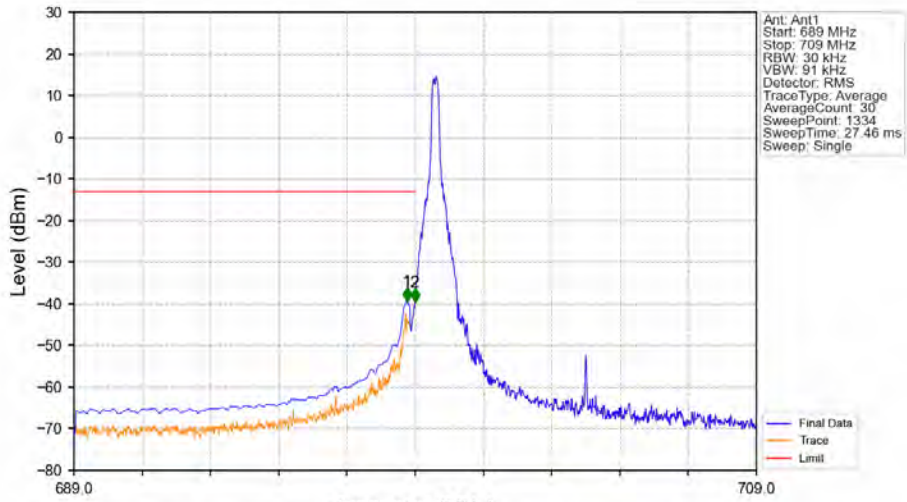
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Band12_10MHz_64QAM_LCH_704MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.752	-39.51	-13	Pass
698.9	699	0.03	/	2	698.992	-39.69	-13	Pass
699	709	0.03	/	/	/	/	/	/



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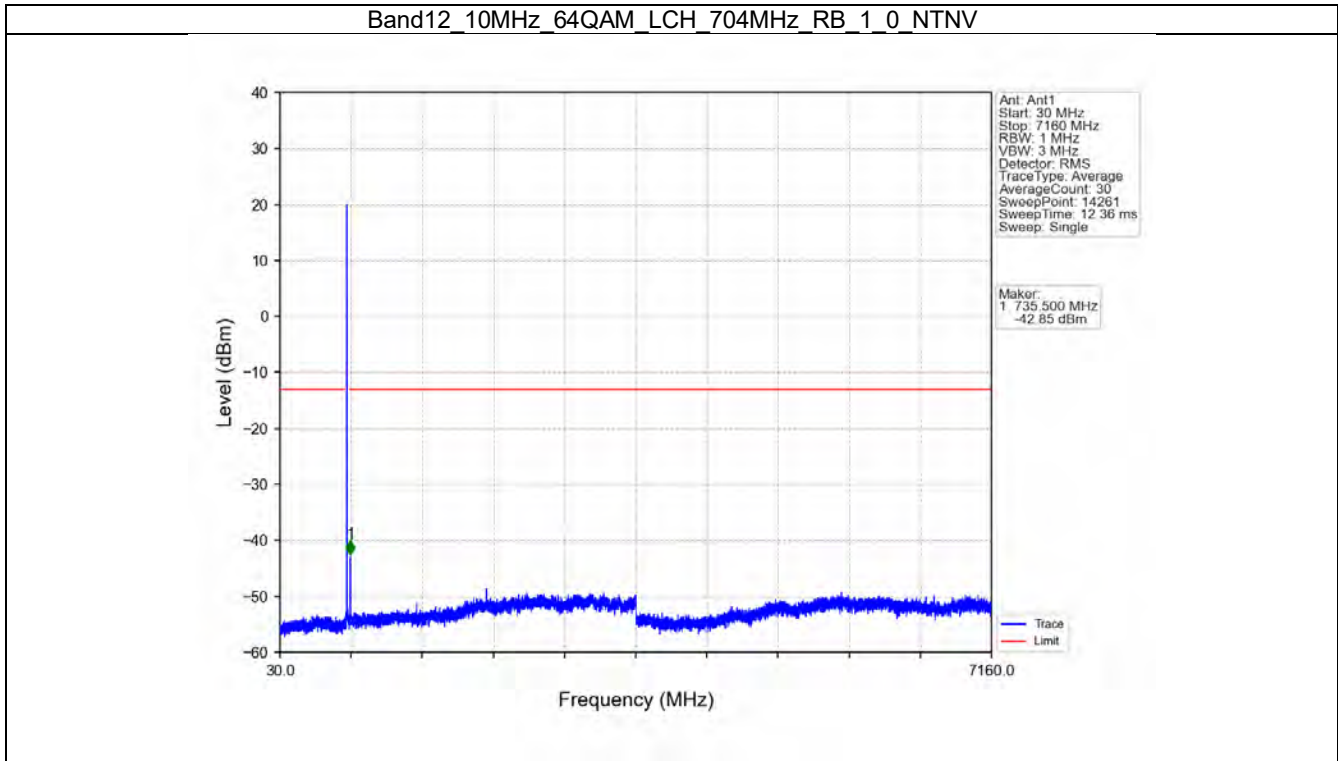


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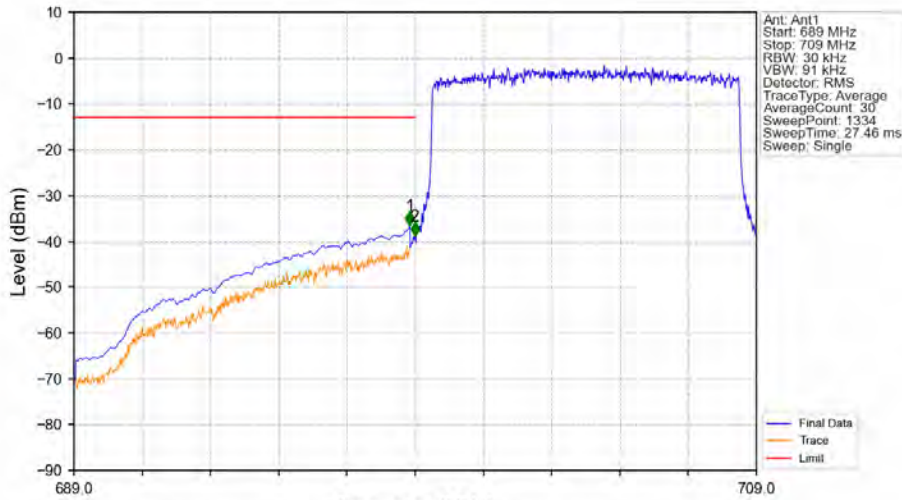
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Band12_10MHz_64QAM_LCH_704MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-36.55	-13	Pass
698.9	699	0.03	/	2	698.992	-38.90	-13	Pass
699	709	0.03	/	/	/	/	/	/



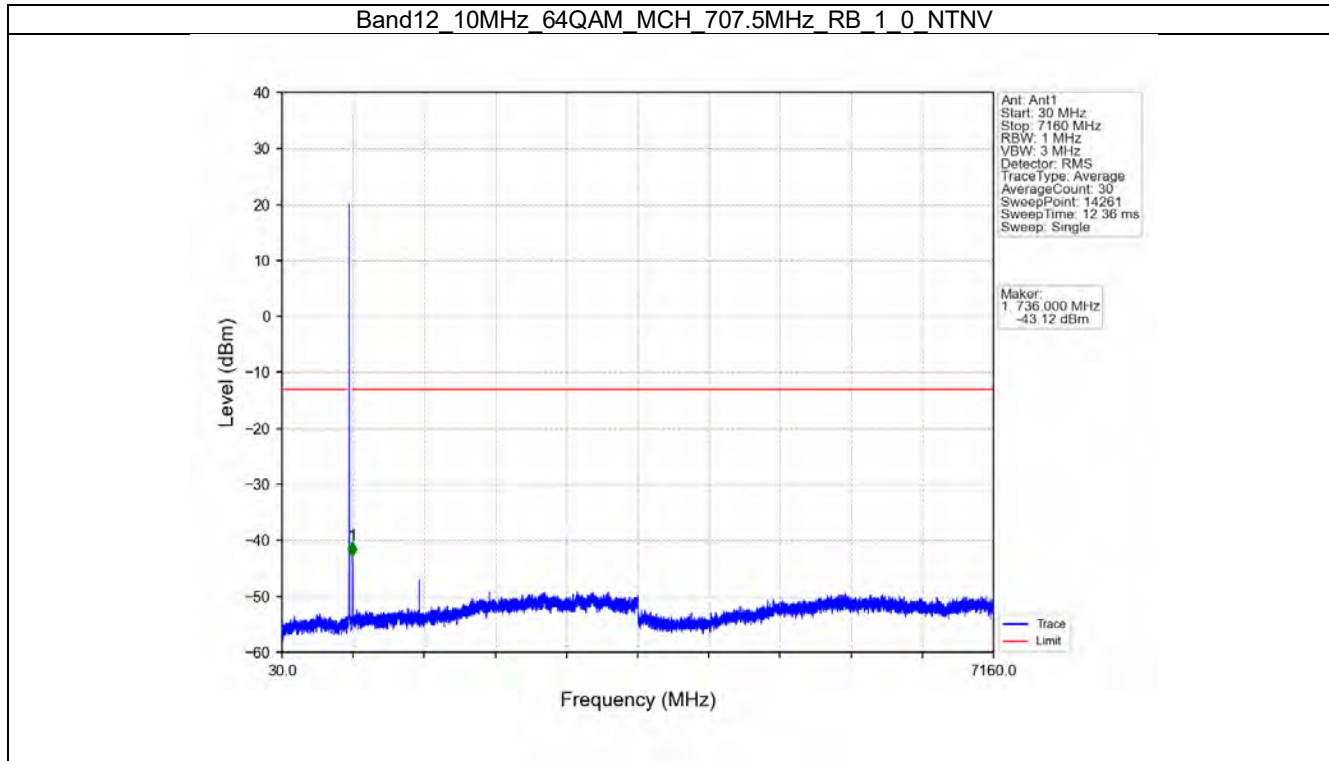
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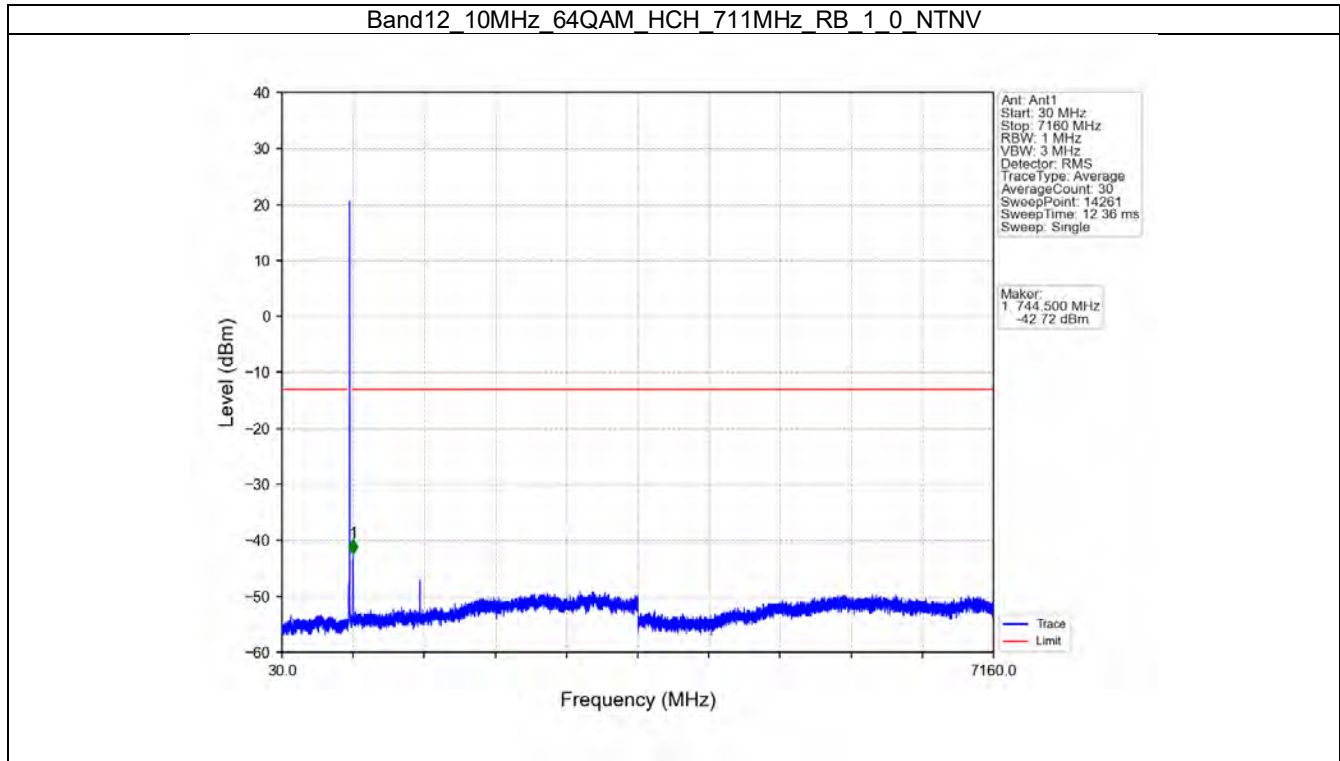


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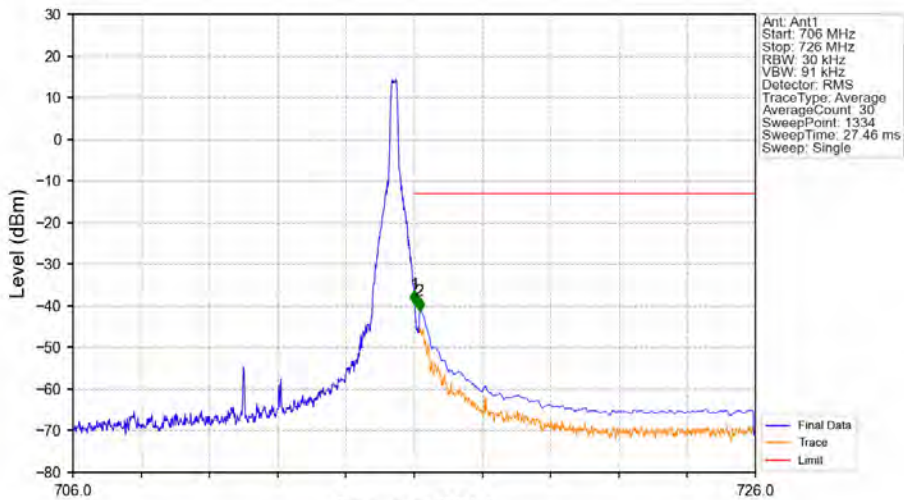
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Band12_10MHz_64QAM_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-39.62	-13	Pass
716.1	726	0.1	CHP	2	716.158	-41.31	-13	Pass



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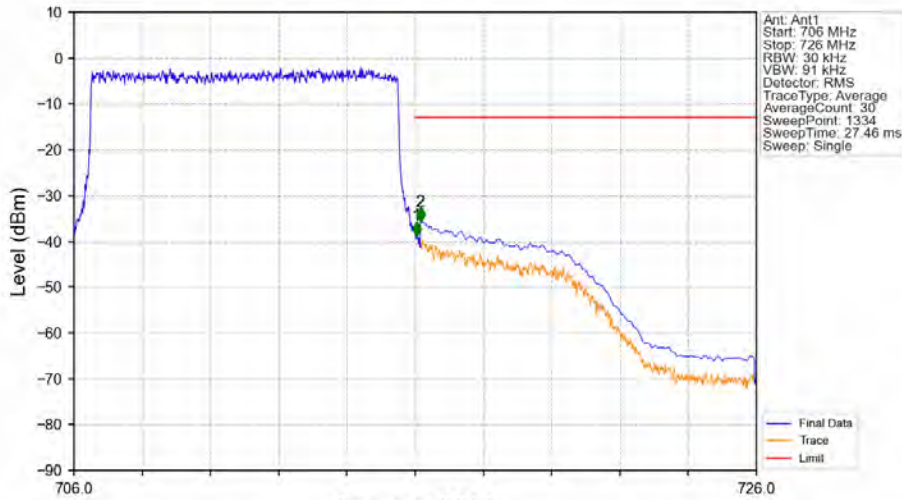
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Band12_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.038	-38.76	-13	Pass
716.1	726	0.1	CHP	2	716.158	-35.65	-13	Pass



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6. Field Strength of Spurious Radiation

Test Band = B12 ANT13_ TM1

Test Channel = low

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1398.9125	52.71	24.20	-49.12	-67.47	-13.00	54.47	Horizontal
2	2098.5000	42.64	26.44	-48.18	-74.36	-13.00	61.36	Horizontal
3	2798.0000	44.79	28.12	-47.31	-69.66	-13.00	56.66	Horizontal
4	3497.5000	46.91	28.70	-47.38	-67.03	-13.00	54.03	Horizontal
5	4197.0000	44.04	29.78	-47.13	-68.57	-13.00	55.57	Horizontal
6	4896.5000	44.29	31.15	-47.02	-66.84	-13.00	53.84	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1398.9125	51.91	24.20	-49.12	-68.27	-13.00	55.27	Vertical
2	2098.5000	42.73	26.44	-48.18	-74.27	-13.00	61.27	Vertical
3	2798.0000	44.14	28.12	-47.31	-70.31	-13.00	57.31	Vertical
4	3497.5000	45.66	28.70	-47.38	-68.28	-13.00	55.28	Vertical
5	4197.0000	44.16	29.78	-47.13	-68.45	-13.00	55.45	Vertical
6	4896.5000	44.14	31.15	-47.02	-66.99	-13.00	53.99	Vertical



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Test Band = B12 ANT13_ TM1
Test Channel = mid

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1405.9625	50.52	24.22	-49.11	-69.63	-13.00	56.63	Horizontal
2	2109.0000	42.90	26.46	-48.19	-74.09	-13.00	61.09	Horizontal
3	2812.0000	44.19	28.15	-47.34	-70.26	-13.00	57.26	Horizontal
4	3515.0000	45.21	28.72	-47.43	-68.76	-13.00	55.76	Horizontal
5	4218.0000	44.11	29.81	-47.11	-68.45	-13.00	55.45	Horizontal
6	4921.0000	44.61	31.21	-47.00	-66.44	-13.00	53.44	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1405.9625	50.66	24.22	-49.11	-69.49	-13.00	56.49	Vertical
2	2109.0000	42.43	26.46	-48.19	-74.56	-13.00	61.56	Vertical
3	2812.0000	44.29	28.15	-47.34	-70.16	-13.00	57.16	Vertical
4	3515.0000	45.03	28.72	-47.43	-68.94	-13.00	55.94	Vertical
5	4218.0000	44.09	29.81	-47.11	-68.47	-13.00	55.47	Vertical
6	4921.0000	44.29	31.21	-47.00	-66.76	-13.00	53.76	Vertical



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Report No.: SZCR240400116001

Rev.: 01

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Test Band = B12 ANT13_ TM1
Test Channel = high

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.0000	50.44	24.24	-49.11	-69.69	-13.00	56.69	Horizontal
2	2119.5000	43.23	26.49	-48.22	-73.76	-13.00	60.76	Horizontal
3	2826.0000	44.45	28.18	-47.39	-70.02	-13.00	57.02	Horizontal
4	3532.5000	44.56	28.75	-47.50	-69.45	-13.00	56.45	Horizontal
5	4239.0000	44.53	29.84	-47.10	-67.99	-13.00	54.99	Horizontal
6	4945.5000	44.32	31.27	-46.98	-66.65	-13.00	53.65	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.0000	49.67	24.24	-49.11	-70.46	-13.00	57.46	Vertical
2	2119.5000	43.50	26.49	-48.22	-73.49	-13.00	60.49	Vertical
3	2826.0000	44.31	28.18	-47.39	-70.16	-13.00	57.16	Vertical
4	3532.5000	45.39	28.75	-47.50	-68.62	-13.00	55.62	Vertical
5	4239.0000	44.42	29.84	-47.10	-68.10	-13.00	55.10	Vertical
6	4945.5000	43.96	31.27	-46.98	-67.01	-13.00	54.01	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

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

---End of Attachment---



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