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Appendix B.8

LTE Band 12



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B12_1.4MHz_ERPAnt0

1.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	699.7	1	0	23.43	-1.20	20.08	<=34.77	Pass	
			2	23.42	-1.20	20.07	<=34.77	Pass	
			5	23.43	-1.20	20.08	<=34.77	Pass	
		3	0	23.47	-1.20	20.12	<=34.77	Pass	
			2	23.45	-1.20	20.10	<=34.77	Pass	
			3	23.45	-1.20	20.10	<=34.77	Pass	
		6	0	22.47	-1.20	19.12	<=34.77	Pass	
			1	0	21.50	-1.20	18.15	<=34.77	Pass
				2	21.48	-1.20	18.13	<=34.77	Pass
	5	21.49		-1.20	18.14	<=34.77	Pass		
	707.5	3	0	21.49	-1.20	18.14	<=34.77	Pass	
			2	21.50	-1.20	18.15	<=34.77	Pass	
			3	21.49	-1.20	18.14	<=34.77	Pass	
		6	0	21.50	-1.20	18.15	<=34.77	Pass	
			1	0	21.50	-1.20	18.15	<=34.77	Pass
				2	21.49	-1.20	18.14	<=34.77	Pass
	3	0		21.50	-1.20	18.15	<=34.77	Pass	
		2	21.49	-1.20	18.14	<=34.77	Pass		
		3	21.50	-1.20	18.15	<=34.77	Pass		
	16QAM	699.7	1	0	22.53	-1.20	19.18	<=34.77	Pass
				2	22.48	-1.20	19.13	<=34.77	Pass
				5	22.51	-1.20	19.16	<=34.77	Pass
			3	0	22.68	-1.20	19.33	<=34.77	Pass
				2	22.69	-1.20	19.34	<=34.77	Pass
3				22.68	-1.20	19.33	<=34.77	Pass	
6			0	21.52	-1.20	18.17	<=34.77	Pass	
			1	0	21.49	-1.20	18.14	<=34.77	Pass
				2	21.49	-1.20	18.14	<=34.77	Pass
5		21.50		-1.20	18.15	<=34.77	Pass		
707.5		3	0	21.50	-1.20	18.15	<=34.77	Pass	
			2	21.49	-1.20	18.14	<=34.77	Pass	
			3	21.50	-1.20	18.15	<=34.77	Pass	
		6	0	21.51	-1.20	18.16	<=34.77	Pass	
			1	0	21.49	-1.20	18.14	<=34.77	Pass
	2			21.49	-1.20	18.14	<=34.77	Pass	



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64QAM	699.7	3	5	21.50	-1.20	18.15	<=34.77	Pass	
			0	21.50	-1.20	18.15	<=34.77	Pass	
			2	21.48	-1.20	18.13	<=34.77	Pass	
		6	3	3	21.49	-1.20	18.14	<=34.77	Pass
				0	21.51	-1.20	18.16	<=34.77	Pass
				0	21.90	-1.20	18.55	<=34.77	Pass
	707.5	1	3	2	21.90	-1.20	18.55	<=34.77	Pass
				5	21.89	-1.20	18.54	<=34.77	Pass
				0	21.68	-1.20	18.33	<=34.77	Pass
		3	6	2	21.71	-1.20	18.36	<=34.77	Pass
				3	21.69	-1.20	18.34	<=34.77	Pass
				0	20.51	-1.20	17.16	<=34.77	Pass
715.3	1	3	0	21.50	-1.20	18.15	<=34.77	Pass	
			2	21.50	-1.20	18.15	<=34.77	Pass	
			5	21.50	-1.20	18.15	<=34.77	Pass	
	3	6	0	21.51	-1.20	18.16	<=34.77	Pass	
			2	21.49	-1.20	18.14	<=34.77	Pass	
			3	21.49	-1.20	18.14	<=34.77	Pass	
256QAM	699.7	1	0	21.51	-1.20	18.16	<=34.77	Pass	
			2	21.49	-1.20	18.14	<=34.77	Pass	
			3	21.49	-1.20	18.14	<=34.77	Pass	
		3	6	0	21.51	-1.20	18.16	<=34.77	Pass
				0	21.50	-1.20	18.15	<=34.77	Pass
				2	21.52	-1.20	18.17	<=34.77	Pass
	707.5	1	3	5	21.49	-1.20	18.14	<=34.77	Pass
				0	21.51	-1.20	18.16	<=34.77	Pass
				2	21.51	-1.20	18.16	<=34.77	Pass
		3	6	3	21.50	-1.20	18.15	<=34.77	Pass
				0	21.50	-1.20	18.15	<=34.77	Pass
				0	21.50	-1.20	18.15	<=34.77	Pass
	715.3	1	3	0	18.74	-1.20	15.39	<=34.77	Pass
				2	18.76	-1.20	15.41	<=34.77	Pass
				5	18.72	-1.20	15.37	<=34.77	Pass
		3	6	0	18.45	-1.20	15.10	<=34.77	Pass
				2	18.43	-1.20	15.08	<=34.77	Pass
				3	18.44	-1.20	15.09	<=34.77	Pass
707.5	1	3	0	18.43	-1.20	15.08	<=34.77	Pass	
			0	18.24	-1.20	14.89	<=34.77	Pass	
			2	18.26	-1.20	14.91	<=34.77	Pass	
	3	6	5	18.34	-1.20	14.99	<=34.77	Pass	
			0	18.26	-1.20	14.91	<=34.77	Pass	
			2	18.31	-1.20	14.96	<=34.77	Pass	
715.3	1	3	3	18.31	-1.20	14.96	<=34.77	Pass	
			0	18.50	-1.20	15.15	<=34.77	Pass	
			0	18.80	-1.20	15.45	<=34.77	Pass	
	3	6	2	18.87	-1.20	15.52	<=34.77	Pass	
			5	18.88	-1.20	15.53	<=34.77	Pass	
			0	18.76	-1.20	15.41	<=34.77	Pass	
6	3	2	18.79	-1.20	15.44	<=34.77	Pass		
		3	18.80	-1.20	15.45	<=34.77	Pass		
		0	18.83	-1.20	15.48	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15



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1.2 B12_3MHz_ERP

1.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	700.5	1	0	22.10	-1.20	18.75	<=34.77	Pass		
			7	22.10	-1.20	18.75	<=34.77	Pass		
			14	22.10	-1.20	18.75	<=34.77	Pass		
		8	0	22.10	-1.20	18.75	<=34.77	Pass		
			4	22.09	-1.20	18.74	<=34.77	Pass		
			7	22.09	-1.20	18.74	<=34.77	Pass		
		15	0	22.10	-1.20	18.75	<=34.77	Pass		
		707.5	1	0	21.42	-1.20	18.07	<=34.77	Pass	
				7	21.42	-1.20	18.07	<=34.77	Pass	
	14			21.43	-1.20	18.08	<=34.77	Pass		
	8		0	21.43	-1.20	18.08	<=34.77	Pass		
			4	21.41	-1.20	18.06	<=34.77	Pass		
			7	21.43	-1.20	18.08	<=34.77	Pass		
	15		0	21.42	-1.20	18.07	<=34.77	Pass		
	714.5		1	0	21.46	-1.20	18.11	<=34.77	Pass	
				7	21.46	-1.20	18.11	<=34.77	Pass	
		14		21.47	-1.20	18.12	<=34.77	Pass		
		8	0	21.46	-1.20	18.11	<=34.77	Pass		
			4	21.46	-1.20	18.11	<=34.77	Pass		
			7	21.46	-1.20	18.11	<=34.77	Pass		
		15	0	21.47	-1.20	18.12	<=34.77	Pass		
		16QAM	700.5	1	0	22.09	-1.20	18.74	<=34.77	Pass
					7	22.10	-1.20	18.75	<=34.77	Pass
	14				22.10	-1.20	18.75	<=34.77	Pass	
	8			0	22.09	-1.20	18.74	<=34.77	Pass	
				4	22.09	-1.20	18.74	<=34.77	Pass	
				7	22.09	-1.20	18.74	<=34.77	Pass	
15	0			22.08	-1.20	18.73	<=34.77	Pass		
707.5	1			0	21.43	-1.20	18.08	<=34.77	Pass	
				7	21.43	-1.20	18.08	<=34.77	Pass	
			14	21.43	-1.20	18.08	<=34.77	Pass		
	8		0	21.45	-1.20	18.10	<=34.77	Pass		
			4	21.44	-1.20	18.09	<=34.77	Pass		
			7	21.42	-1.20	18.07	<=34.77	Pass		
	15		0	21.43	-1.20	18.08	<=34.77	Pass		
	714.5		1	0	21.46	-1.20	18.11	<=34.77	Pass	
				7	21.45	-1.20	18.10	<=34.77	Pass	
14				21.45	-1.20	18.10	<=34.77	Pass		
8			0	21.46	-1.20	18.11	<=34.77	Pass		
			4	21.48	-1.20	18.13	<=34.77	Pass		



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			7	21.46	-1.20	18.11	<=34.77	Pass
		15	0	21.47	-1.20	18.12	<=34.77	Pass
64QAM	700.5	1	0	22.09	-1.20	18.74	<=34.77	Pass
			7	22.08	-1.20	18.73	<=34.77	Pass
			14	22.08	-1.20	18.73	<=34.77	Pass
		8	0	22.08	-1.20	18.73	<=34.77	Pass
			4	22.08	-1.20	18.73	<=34.77	Pass
			7	22.09	-1.20	18.74	<=34.77	Pass
	15	0	22.08	-1.20	18.73	<=34.77	Pass	
	707.5	1	0	21.43	-1.20	18.08	<=34.77	Pass
			7	21.44	-1.20	18.09	<=34.77	Pass
			14	21.42	-1.20	18.07	<=34.77	Pass
		8	0	21.43	-1.20	18.08	<=34.77	Pass
			4	21.43	-1.20	18.08	<=34.77	Pass
			7	21.41	-1.20	18.06	<=34.77	Pass
	15	0	21.44	-1.20	18.09	<=34.77	Pass	
	714.5	1	0	21.46	-1.20	18.11	<=34.77	Pass
			7	21.46	-1.20	18.11	<=34.77	Pass
			14	21.47	-1.20	18.12	<=34.77	Pass
		8	0	21.47	-1.20	18.12	<=34.77	Pass
4			21.47	-1.20	18.12	<=34.77	Pass	
7			21.47	-1.20	18.12	<=34.77	Pass	
15	0	21.47	-1.20	18.12	<=34.77	Pass		
256QAM	700.5	1	0	18.93	-1.20	15.58	<=34.77	Pass
			7	18.91	-1.20	15.56	<=34.77	Pass
			14	18.89	-1.20	15.54	<=34.77	Pass
		8	0	18.59	-1.20	15.24	<=34.77	Pass
			4	18.57	-1.20	15.22	<=34.77	Pass
			7	18.55	-1.20	15.20	<=34.77	Pass
	15	0	18.53	-1.20	15.18	<=34.77	Pass	
	707.5	1	0	18.21	-1.20	14.86	<=34.77	Pass
			7	18.33	-1.20	14.98	<=34.77	Pass
			14	18.33	-1.20	14.98	<=34.77	Pass
		8	0	18.38	-1.20	15.03	<=34.77	Pass
			4	18.43	-1.20	15.08	<=34.77	Pass
			7	18.43	-1.20	15.08	<=34.77	Pass
	15	0	18.58	-1.20	15.23	<=34.77	Pass	
	714.5	1	0	18.72	-1.20	15.37	<=34.77	Pass
			7	18.83	-1.20	15.48	<=34.77	Pass
			14	18.89	-1.20	15.54	<=34.77	Pass
		8	0	18.80	-1.20	15.45	<=34.77	Pass
4			18.80	-1.20	15.45	<=34.77	Pass	
7			18.85	-1.20	15.50	<=34.77	Pass	
15	0	18.76	-1.20	15.41	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15



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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	21.57	-1.20	18.22	<=34.77	Pass		
			13	21.57	-1.20	18.22	<=34.77	Pass		
			24	21.57	-1.20	18.22	<=34.77	Pass		
		12	0	21.57	-1.20	18.22	<=34.77	Pass		
			6	21.57	-1.20	18.22	<=34.77	Pass		
			13	21.56	-1.20	18.21	<=34.77	Pass		
		25	0	21.57	-1.20	18.22	<=34.77	Pass		
		707.5	1	0	21.72	-1.20	18.37	<=34.77	Pass	
				13	21.73	-1.20	18.38	<=34.77	Pass	
	24			21.72	-1.20	18.37	<=34.77	Pass		
	12		0	21.72	-1.20	18.37	<=34.77	Pass		
			6	21.72	-1.20	18.37	<=34.77	Pass		
			13	21.73	-1.20	18.38	<=34.77	Pass		
	25		0	21.71	-1.20	18.36	<=34.77	Pass		
	713.5		1	0	21.88	-1.20	18.53	<=34.77	Pass	
				13	21.88	-1.20	18.53	<=34.77	Pass	
		24		21.89	-1.20	18.54	<=34.77	Pass		
		12	0	21.88	-1.20	18.53	<=34.77	Pass		
			6	21.88	-1.20	18.53	<=34.77	Pass		
			13	21.88	-1.20	18.53	<=34.77	Pass		
		25	0	21.89	-1.20	18.54	<=34.77	Pass		
		16QAM	701.5	1	0	21.57	-1.20	18.22	<=34.77	Pass
					13	21.57	-1.20	18.22	<=34.77	Pass
	24				21.57	-1.20	18.22	<=34.77	Pass	
12	0			21.56	-1.20	18.21	<=34.77	Pass		
	6			21.57	-1.20	18.22	<=34.77	Pass		
	13			21.56	-1.20	18.21	<=34.77	Pass		
25	0			21.58	-1.20	18.23	<=34.77	Pass		
707.5	1			0	21.74	-1.20	18.39	<=34.77	Pass	
				13	21.72	-1.20	18.37	<=34.77	Pass	
			24	21.71	-1.20	18.36	<=34.77	Pass		
	12		0	21.74	-1.20	18.39	<=34.77	Pass		
			6	21.72	-1.20	18.37	<=34.77	Pass		
			13	21.71	-1.20	18.36	<=34.77	Pass		
	25		0	21.73	-1.20	18.38	<=34.77	Pass		
	713.5		1	0	21.88	-1.20	18.53	<=34.77	Pass	
				13	21.88	-1.20	18.53	<=34.77	Pass	
24				21.88	-1.20	18.53	<=34.77	Pass		
12			0	21.88	-1.20	18.53	<=34.77	Pass		
			6	21.88	-1.20	18.53	<=34.77	Pass		
			6	21.88	-1.20	18.53	<=34.77	Pass		



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			13	21.89	-1.20	18.54	<=34.77	Pass
		25	0	21.88	-1.20	18.53	<=34.77	Pass
64QAM	701.5	1	0	21.56	-1.20	18.21	<=34.77	Pass
			13	21.56	-1.20	18.21	<=34.77	Pass
			24	21.57	-1.20	18.22	<=34.77	Pass
		12	0	21.57	-1.20	18.22	<=34.77	Pass
			6	21.56	-1.20	18.21	<=34.77	Pass
			13	21.57	-1.20	18.22	<=34.77	Pass
	25	0	21.56	-1.20	18.21	<=34.77	Pass	
	707.5	1	0	21.72	-1.20	18.37	<=34.77	Pass
			13	21.72	-1.20	18.37	<=34.77	Pass
			24	21.72	-1.20	18.37	<=34.77	Pass
		12	0	21.72	-1.20	18.37	<=34.77	Pass
			6	21.73	-1.20	18.38	<=34.77	Pass
			13	21.73	-1.20	18.38	<=34.77	Pass
	25	0	21.73	-1.20	18.38	<=34.77	Pass	
	713.5	1	0	21.88	-1.20	18.53	<=34.77	Pass
			13	21.88	-1.20	18.53	<=34.77	Pass
			24	21.88	-1.20	18.53	<=34.77	Pass
		12	0	21.88	-1.20	18.53	<=34.77	Pass
6			21.88	-1.20	18.53	<=34.77	Pass	
13			21.87	-1.20	18.52	<=34.77	Pass	
25	0	21.88	-1.20	18.53	<=34.77	Pass		
256QAM	701.5	1	0	18.36	-1.20	15.01	<=34.77	Pass
			13	18.29	-1.20	14.94	<=34.77	Pass
			24	18.27	-1.20	14.92	<=34.77	Pass
		12	0	18.59	-1.20	15.24	<=34.77	Pass
			6	18.54	-1.20	15.19	<=34.77	Pass
			13	18.52	-1.20	15.17	<=34.77	Pass
	25	0	18.57	-1.20	15.22	<=34.77	Pass	
	707.5	1	0	18.65	-1.20	15.30	<=34.77	Pass
			13	18.74	-1.20	15.39	<=34.77	Pass
			24	18.79	-1.20	15.44	<=34.77	Pass
		12	0	18.52	-1.20	15.17	<=34.77	Pass
			6	18.53	-1.20	15.18	<=34.77	Pass
			13	18.58	-1.20	15.23	<=34.77	Pass
	25	0	18.53	-1.20	15.18	<=34.77	Pass	
	713.5	1	0	18.73	-1.20	15.38	<=34.77	Pass
			13	18.82	-1.20	15.47	<=34.77	Pass
			24	18.95	-1.20	15.60	<=34.77	Pass
		12	0	18.73	-1.20	15.38	<=34.77	Pass
6			18.77	-1.20	15.42	<=34.77	Pass	
13			18.81	-1.20	15.46	<=34.77	Pass	
25	0	18.77	-1.20	15.42	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15



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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	22.14	-1.20	18.79	<=34.77	Pass		
			25	22.15	-1.20	18.80	<=34.77	Pass		
			49	22.15	-1.20	18.80	<=34.77	Pass		
		25	0	22.15	-1.20	18.80	<=34.77	Pass		
			13	22.14	-1.20	18.79	<=34.77	Pass		
			25	22.15	-1.20	18.80	<=34.77	Pass		
		50	0	22.14	-1.20	18.79	<=34.77	Pass		
		707.5	1	0	21.63	-1.20	18.28	<=34.77	Pass	
				25	21.61	-1.20	18.26	<=34.77	Pass	
	49			21.62	-1.20	18.27	<=34.77	Pass		
	25		0	21.64	-1.20	18.29	<=34.77	Pass		
			13	21.63	-1.20	18.28	<=34.77	Pass		
			25	21.63	-1.20	18.28	<=34.77	Pass		
	50		0	21.63	-1.20	18.28	<=34.77	Pass		
	711		1	0	21.23	-1.20	17.88	<=34.77	Pass	
				25	21.22	-1.20	17.87	<=34.77	Pass	
		49		21.23	-1.20	17.88	<=34.77	Pass		
		25	0	21.22	-1.20	17.87	<=34.77	Pass		
			13	21.21	-1.20	17.86	<=34.77	Pass		
			25	21.22	-1.20	17.87	<=34.77	Pass		
		50	0	21.21	-1.20	17.86	<=34.77	Pass		
		16QAM	704	1	0	22.15	-1.20	18.80	<=34.77	Pass
					25	22.15	-1.20	18.80	<=34.77	Pass
	49				22.13	-1.20	18.78	<=34.77	Pass	
25	0			22.13	-1.20	18.78	<=34.77	Pass		
	13			22.14	-1.20	18.79	<=34.77	Pass		
	25			22.14	-1.20	18.79	<=34.77	Pass		
50	0			22.14	-1.20	18.79	<=34.77	Pass		
707.5	1			0	21.63	-1.20	18.28	<=34.77	Pass	
				25	21.63	-1.20	18.28	<=34.77	Pass	
			49	21.64	-1.20	18.29	<=34.77	Pass		
	25		0	21.62	-1.20	18.27	<=34.77	Pass		
			13	21.63	-1.20	18.28	<=34.77	Pass		
			25	21.63	-1.20	18.28	<=34.77	Pass		
	50		0	21.63	-1.20	18.28	<=34.77	Pass		
	711		1	0	21.24	-1.20	17.89	<=34.77	Pass	
				25	21.21	-1.20	17.86	<=34.77	Pass	
49				21.21	-1.20	17.86	<=34.77	Pass		
25			0	21.21	-1.20	17.86	<=34.77	Pass		
			13	21.23	-1.20	17.88	<=34.77	Pass		



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			25	21.21	-1.20	17.86	<=34.77	Pass
		50	0	21.23	-1.20	17.88	<=34.77	Pass
64QAM	704	1	0	22.14	-1.20	18.79	<=34.77	Pass
			25	22.14	-1.20	18.79	<=34.77	Pass
			49	22.15	-1.20	18.80	<=34.77	Pass
		25	0	22.14	-1.20	18.79	<=34.77	Pass
			13	22.13	-1.20	18.78	<=34.77	Pass
			25	22.14	-1.20	18.79	<=34.77	Pass
	50	0	22.15	-1.20	18.80	<=34.77	Pass	
	707.5	1	0	21.63	-1.20	18.28	<=34.77	Pass
			25	21.63	-1.20	18.28	<=34.77	Pass
			49	21.64	-1.20	18.29	<=34.77	Pass
		25	0	21.63	-1.20	18.28	<=34.77	Pass
			13	21.63	-1.20	18.28	<=34.77	Pass
			25	21.63	-1.20	18.28	<=34.77	Pass
	50	0	21.64	-1.20	18.29	<=34.77	Pass	
	711	1	0	21.21	-1.20	17.86	<=34.77	Pass
			25	21.21	-1.20	17.86	<=34.77	Pass
			49	21.21	-1.20	17.86	<=34.77	Pass
		25	0	21.21	-1.20	17.86	<=34.77	Pass
13			21.20	-1.20	17.85	<=34.77	Pass	
25			21.21	-1.20	17.86	<=34.77	Pass	
50	0	21.21	-1.20	17.86	<=34.77	Pass		
256QAM	704	1	0	19.03	-1.20	15.68	<=34.77	Pass
			25	18.93	-1.20	15.58	<=34.77	Pass
			49	18.97	-1.20	15.62	<=34.77	Pass
		25	0	18.54	-1.20	15.19	<=34.77	Pass
			13	18.52	-1.20	15.17	<=34.77	Pass
			25	18.51	-1.20	15.16	<=34.77	Pass
	50	0	18.54	-1.20	15.19	<=34.77	Pass	
	707.5	1	0	18.37	-1.20	15.02	<=34.77	Pass
			25	18.38	-1.20	15.03	<=34.77	Pass
			49	18.52	-1.20	15.17	<=34.77	Pass
		25	0	18.52	-1.20	15.17	<=34.77	Pass
			13	18.58	-1.20	15.23	<=34.77	Pass
			25	18.64	-1.20	15.29	<=34.77	Pass
	50	0	18.56	-1.20	15.21	<=34.77	Pass	
	711	1	0	18.56	-1.20	15.21	<=34.77	Pass
			25	18.76	-1.20	15.41	<=34.77	Pass
			49	18.98	-1.20	15.63	<=34.77	Pass
		25	0	18.64	-1.20	15.29	<=34.77	Pass
			13	18.71	-1.20	15.36	<=34.77	Pass
			25	18.78	-1.20	15.43	<=34.77	Pass
	50	0	18.67	-1.20	15.32	<=34.77	Pass	

Note1: ERP=Conducted Power+Antenna Gain-2.15



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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	
QPSK	699.7	6	0	20	3.4	-2.704	-0.0039	Pass
					3.8	-0.629	-0.0009	Pass
					4.4	0.072	0.0001	Pass
				-30	3.8	-2.046	-0.0029	Pass
				-20	3.8	-1.831	-0.0026	Pass
				-10	3.8	-3.619	-0.0052	Pass
				0	3.8	-2.575	-0.0037	Pass
				10	3.8	2.518	0.0036	Pass
				30	3.8	-2.303	-0.0033	Pass
				40	3.8	-0.844	-0.0012	Pass
	50	3.8	-1.945	-0.0028	Pass			
	707.5	6	0	20	3.4	-0.358	-0.0005	Pass
					3.8	-3.190	-0.0045	Pass
					4.4	-1.173	-0.0017	Pass
				-30	3.8	-4.764	-0.0067	Pass
				-20	3.8	-0.830	-0.0012	Pass
				-10	3.8	-3.362	-0.0048	Pass
				0	3.8	-1.645	-0.0023	Pass
				10	3.8	-3.576	-0.0051	Pass
				30	3.8	-0.257	-0.0004	Pass
				40	3.8	-0.014	0.0000	Pass
	50	3.8	-2.146	-0.0030	Pass			
	715.3	6	0	20	3.4	-3.648	-0.0051	Pass
					3.8	-1.788	-0.0025	Pass
					4.4	-3.963	-0.0055	Pass
				-30	3.8	-3.262	-0.0046	Pass
				-20	3.8	-2.704	-0.0038	Pass
				-10	3.8	0.443	0.0006	Pass
				0	3.8	0.672	0.0009	Pass
				10	3.8	1.330	0.0019	Pass
30				3.8	0.715	0.0010	Pass	
40				3.8	-4.463	-0.0062	Pass	
50	3.8	-1.416	-0.0020	Pass				
16QAM	699.7	6	0	20	3.4	-0.772	-0.0011	Pass
					3.8	-0.114	-0.0002	Pass
					4.4	-1.431	-0.0020	Pass



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				-30	3.8	-3.047	-0.0044	Pass
				-20	3.8	-5.093	-0.0073	Pass
				-10	3.8	-0.858	-0.0012	Pass
				0	3.8	-0.386	-0.0006	Pass
				10	3.8	-3.161	-0.0045	Pass
				30	3.8	-3.161	-0.0045	Pass
				40	3.8	-2.990	-0.0043	Pass
				50	3.8	-4.292	-0.0061	Pass
	707.5	6	0	20	3.4	-2.761	-0.0039	Pass
					3.8	-0.687	-0.0010	Pass
					4.4	-0.644	-0.0009	Pass
				-30	3.8	-2.003	-0.0028	Pass
				-20	3.8	0.014	0.0000	Pass
				-10	3.8	-2.289	-0.0032	Pass
				0	3.8	-3.147	-0.0044	Pass
				10	3.8	-0.200	-0.0003	Pass
				30	3.8	-2.103	-0.0030	Pass
				40	3.8	0.887	0.0013	Pass
				50	3.8	2.303	0.0033	Pass
				715.3	6	0	20	3.4
	3.8	-3.490	-0.0049					Pass
	4.4	-3.290	-0.0046					Pass
	-30	3.8	-2.503				-0.0035	Pass
	-20	3.8	-4.077				-0.0057	Pass
	-10	3.8	-3.691				-0.0052	Pass
	0	3.8	-3.862				-0.0054	Pass
	10	3.8	-2.489				-0.0035	Pass
	30	3.8	-0.272				-0.0004	Pass
40	3.8	-2.217	-0.0031				Pass	
64QAM	699.7	6	0	20	3.4	0.000	0.0000	Pass
					3.8	-3.219	-0.0046	Pass
					4.4	-0.257	-0.0004	Pass
				-30	3.8	-2.346	-0.0034	Pass
				-20	3.8	-2.933	-0.0042	Pass
				-10	3.8	0.587	0.0008	Pass
				0	3.8	-4.077	-0.0058	Pass
				10	3.8	-4.435	-0.0063	Pass
				30	3.8	-1.860	-0.0027	Pass
				40	3.8	-5.422	-0.0077	Pass
	50	3.8	-4.363	-0.0062	Pass			
	707.5	6	0	20	3.4	-1.287	-0.0018	Pass
					3.8	-2.546	-0.0036	Pass
					4.4	-0.901	-0.0013	Pass
				-30	3.8	-4.349	-0.0061	Pass
				-20	3.8	-0.286	-0.0004	Pass
				-10	3.8	-2.460	-0.0035	Pass
				0	3.8	-1.860	-0.0026	Pass



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	715.3	6	0	10	3.8	-2.875	-0.0041	Pass
				30	3.8	-2.532	-0.0036	Pass
				40	3.8	-2.131	-0.0030	Pass
				50	3.8	-3.734	-0.0053	Pass
				20	3.4	-2.160	-0.0030	Pass
					3.8	0.329	0.0005	Pass
					4.4	-3.619	-0.0051	Pass
				-30	3.8	-4.849	-0.0068	Pass
				-20	3.8	-0.572	-0.0008	Pass
				-10	3.8	-0.730	-0.0010	Pass
				0	3.8	0.672	0.0009	Pass
				10	3.8	1.087	0.0015	Pass
				30	3.8	1.187	0.0017	Pass
				40	3.8	1.674	0.0023	Pass
50	3.8	-2.804	-0.0039	Pass				
256QAM	699.7	6	0	20	3.4	-4.678	-0.0067	Pass
					3.8	-0.873	-0.0012	Pass
					4.4	-0.758	-0.0011	Pass
				-30	3.8	-5.350	-0.0076	Pass
				-20	3.8	-0.715	-0.0010	Pass
				-10	3.8	-6.223	-0.0089	Pass
				0	3.8	-1.030	-0.0015	Pass
				10	3.8	-3.834	-0.0055	Pass
				30	3.8	0.587	0.0008	Pass
				40	3.8	-1.502	-0.0021	Pass
	50	3.8	-1.931	-0.0028	Pass			
	707.5	6	0	20	3.4	1.173	0.0017	Pass
					3.8	-2.875	-0.0041	Pass
					4.4	-1.845	-0.0026	Pass
				-30	3.8	-5.507	-0.0078	Pass
				-20	3.8	1.101	0.0016	Pass
				-10	3.8	-0.844	-0.0012	Pass
				0	3.8	-2.289	-0.0032	Pass
				10	3.8	-2.804	-0.0040	Pass
				30	3.8	-1.302	-0.0018	Pass
40				3.8	0.529	0.0007	Pass	
50	3.8	-4.292	-0.0061	Pass				
715.3	6	0	20	3.4	-1.574	-0.0022	Pass	
				3.8	-0.830	-0.0012	Pass	
				4.4	-2.532	-0.0035	Pass	
			-30	3.8	-2.432	-0.0034	Pass	
			-20	3.8	2.346	0.0033	Pass	
			-10	3.8	-4.005	-0.0056	Pass	
			0	3.8	-0.315	-0.0004	Pass	
			10	3.8	1.073	0.0015	Pass	
			30	3.8	-0.844	-0.0012	Pass	
			40	3.8	-2.561	-0.0036	Pass	
50	3.8	0.329	0.0005	Pass				



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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		
QPSK	700.5	15	0	20	3.4	-2.017	-0.0029	Pass	
					3.8	-1.574	-0.0022	Pass	
					4.4	-0.558	-0.0008	Pass	
				-30	3.8	1.173	0.0017	Pass	
					-20	3.8	-1.888	-0.0027	Pass
						3.8	-1.287	-0.0018	Pass
				0	3.8	-0.515	-0.0007	Pass	
					3.8	-2.103	-0.0030	Pass	
				30	3.8	-1.502	-0.0021	Pass	
					3.8	-4.120	-0.0059	Pass	
	50	3.8	-3.304	-0.0047	Pass				
	707.5	15	0	20	3.4	3.047	0.0043	Pass	
					3.8	-4.134	-0.0058	Pass	
					4.4	1.130	0.0016	Pass	
				-30	3.8	-2.503	-0.0035	Pass	
					-20	3.8	-2.532	-0.0036	Pass
						3.8	-1.531	-0.0022	Pass
				0	3.8	-0.858	-0.0012	Pass	
					3.8	-2.303	-0.0033	Pass	
				30	3.8	0.343	0.0005	Pass	
					3.8	-4.277	-0.0060	Pass	
	50	3.8	-1.402	-0.0020	Pass				
	714.5	15	0	20	3.4	1.488	0.0021	Pass	
					3.8	0.715	0.0010	Pass	
					4.4	-2.174	-0.0030	Pass	
				-30	3.8	-1.731	-0.0024	Pass	
					-20	3.8	-3.805	-0.0053	Pass
						3.8	2.775	0.0039	Pass
				0	3.8	-2.089	-0.0029	Pass	
					3.8	-1.888	-0.0026	Pass	
30				3.8	-2.046	-0.0029	Pass		
				3.8	-1.931	-0.0027	Pass		
50	3.8	-0.343	-0.0005	Pass					
16QAM	700.5	15	0	20	3.4	0.858	0.0012	Pass	
					3.8	-1.960	-0.0028	Pass	
				-30	4.4	-1.044	-0.0015	Pass	
					3.8	-1.259	-0.0018	Pass	



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				-20	3.8	-0.129	-0.0002	Pass			
				-10	3.8	-1.273	-0.0018	Pass			
				0	3.8	-0.815	-0.0012	Pass			
				10	3.8	-3.033	-0.0043	Pass			
				30	3.8	-0.415	-0.0006	Pass			
				40	3.8	-0.229	-0.0003	Pass			
				50	3.8	-5.808	-0.0083	Pass			
	707.5	15	0	20	3.4	-3.777	-0.0053	Pass			
					3.8	-2.990	-0.0042	Pass			
					4.4	-4.034	-0.0057	Pass			
				-30	3.8	-4.678	-0.0066	Pass			
				-20	3.8	-4.520	-0.0064	Pass			
				-10	3.8	0.987	0.0014	Pass			
				0	3.8	-1.802	-0.0025	Pass			
				10	3.8	-5.364	-0.0076	Pass			
				30	3.8	-0.200	-0.0003	Pass			
				40	3.8	-2.460	-0.0035	Pass			
				50	3.8	-2.732	-0.0039	Pass			
				714.5	15	0	20	3.4	-1.488	-0.0021	Pass
								3.8	0.701	0.0010	Pass
								4.4	0.558	0.0008	Pass
	-30	3.8	-0.143				-0.0002	Pass			
	-20	3.8	1.144				0.0016	Pass			
	-10	3.8	-4.034				-0.0056	Pass			
	0	3.8	0.057				0.0001	Pass			
	10	3.8	-0.486				-0.0007	Pass			
	30	3.8	-2.818				-0.0039	Pass			
	40	3.8	-2.589				-0.0036	Pass			
50	3.8	-2.861	-0.0040				Pass				
64QAM	700.5	15	0	20	3.4	-0.143	-0.0002	Pass			
					3.8	0.000	0.0000	Pass			
					4.4	-3.877	-0.0055	Pass			
				-30	3.8	1.130	0.0016	Pass			
				-20	3.8	0.386	0.0006	Pass			
				-10	3.8	-1.016	-0.0015	Pass			
				0	3.8	-3.834	-0.0055	Pass			
				10	3.8	1.216	0.0017	Pass			
				30	3.8	0.229	0.0003	Pass			
				40	3.8	-0.744	-0.0011	Pass			
	50	3.8	-2.589	-0.0037	Pass						
	707.5	15	0	20	3.4	-1.445	-0.0020	Pass			
					3.8	-4.206	-0.0059	Pass			
					4.4	0.887	0.0013	Pass			
				-30	3.8	-2.403	-0.0034	Pass			
				-20	3.8	-3.161	-0.0045	Pass			
				-10	3.8	0.029	0.0000	Pass			
				0	3.8	-2.890	-0.0041	Pass			
				10	3.8	-2.575	-0.0036	Pass			



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	714.5	15	0	30	3.8	-3.018	-0.0043	Pass				
				40	3.8	-2.275	-0.0032	Pass				
				50	3.8	-3.719	-0.0053	Pass				
				20	3.4	-4.177	-0.0058	Pass				
					3.8	-0.343	-0.0005	Pass				
					4.4	-2.918	-0.0041	Pass				
				-30	3.8	-2.246	-0.0031	Pass				
				-20	3.8	-3.476	-0.0049	Pass				
				-10	3.8	0.715	0.0010	Pass				
				0	3.8	0.801	0.0011	Pass				
				10	3.8	-2.046	-0.0029	Pass				
				30	3.8	-2.046	-0.0029	Pass				
				40	3.8	0.486	0.0007	Pass				
50	3.8	-0.401	-0.0006	Pass								
256QAM	700.5	15	0	20	3.4	-1.817	-0.0026	Pass				
					3.8	0.200	0.0003	Pass				
					4.4	-1.760	-0.0025	Pass				
				-30	3.8	-0.501	-0.0007	Pass				
				-20	3.8	-0.830	-0.0012	Pass				
				-10	3.8	-0.257	-0.0004	Pass				
				0	3.8	-0.558	-0.0008	Pass				
				10	3.8	-1.216	-0.0017	Pass				
				30	3.8	-2.947	-0.0042	Pass				
				40	3.8	-2.732	-0.0039	Pass				
				50	3.8	-1.001	-0.0014	Pass				
				256QAM	707.5	15	0	20	3.4	-1.645	-0.0023	Pass
									3.8	-3.405	-0.0048	Pass
4.4	-3.433	-0.0049	Pass									
-30	3.8	-2.317	-0.0033					Pass				
-20	3.8	-0.715	-0.0010					Pass				
-10	3.8	-1.588	-0.0022					Pass				
0	3.8	-1.044	-0.0015					Pass				
10	3.8	-0.300	-0.0004					Pass				
30	3.8	-3.819	-0.0054					Pass				
40	3.8	-1.917	-0.0027					Pass				
50	3.8	-2.389	-0.0034	Pass								
256QAM	714.5	15	0	20	3.4	-2.804	-0.0039	Pass				
					3.8	0.572	0.0008	Pass				
					4.4	0.429	0.0006	Pass				
				-30	3.8	-3.033	-0.0042	Pass				
				-20	3.8	-0.300	-0.0004	Pass				
				-10	3.8	-2.918	-0.0041	Pass				
				0	3.8	-2.661	-0.0037	Pass				
				10	3.8	-3.004	-0.0042	Pass				
				30	3.8	-2.275	-0.0032	Pass				
				40	3.8	0.315	0.0004	Pass				
50	3.8	-1.459	-0.0020	Pass								



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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	
QPSK	701.5	25	0	20	3.4	-1.659	-0.0024	Pass
					3.8	-3.633	-0.0052	Pass
					4.4	0.629	0.0009	Pass
				-30	3.8	-2.418	-0.0034	Pass
				-20	3.8	-0.372	-0.0005	Pass
				-10	3.8	-4.463	-0.0064	Pass
				0	3.8	-3.419	-0.0049	Pass
				10	3.8	-3.161	-0.0045	Pass
				30	3.8	-2.131	-0.0030	Pass
				40	3.8	-2.117	-0.0030	Pass
	50	3.8	-0.744	-0.0011	Pass			
	707.5	25	0	20	3.4	-2.217	-0.0031	Pass
					3.8	1.445	0.0020	Pass
					4.4	-3.147	-0.0044	Pass
				-30	3.8	1.388	0.0020	Pass
				-20	3.8	-0.901	-0.0013	Pass
				-10	3.8	-0.257	-0.0004	Pass
				0	3.8	-2.518	-0.0036	Pass
				10	3.8	-0.701	-0.0010	Pass
				30	3.8	-3.419	-0.0048	Pass
				40	3.8	0.744	0.0011	Pass
	50	3.8	-2.203	-0.0031	Pass			
	713.5	25	0	20	3.4	-2.775	-0.0039	Pass
					3.8	-2.375	-0.0033	Pass
					4.4	-3.276	-0.0046	Pass
				-30	3.8	-1.731	-0.0024	Pass
				-20	3.8	-0.844	-0.0012	Pass
				-10	3.8	-4.406	-0.0062	Pass
				0	3.8	-1.988	-0.0028	Pass
				10	3.8	-4.163	-0.0058	Pass
30				3.8	-2.217	-0.0031	Pass	
40				3.8	-0.029	0.0000	Pass	
50	3.8	-2.003	-0.0028	Pass				
16QAM	701.5	25	0	20	3.4	-0.987	-0.0014	Pass
					3.8	-2.074	-0.0030	Pass
					4.4	-2.174	-0.0031	Pass
				-30	3.8	-2.618	-0.0037	Pass
				-20	3.8	-1.259	-0.0018	Pass
				-10	3.8	-6.180	-0.0088	Pass



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64QAM	707.5	25	0	0	3.8	-2.332	-0.0033	Pass		
				10	3.8	-4.435	-0.0063	Pass		
				30	3.8	-5.493	-0.0078	Pass		
				40	3.8	-1.259	-0.0018	Pass		
				50	3.8	-3.834	-0.0055	Pass		
				20	3.4	-1.388	-0.0020	Pass		
					3.8	-1.459	-0.0021	Pass		
					4.4	-1.831	-0.0026	Pass		
				-30	3.8	-2.632	-0.0037	Pass		
				-20	3.8	-1.917	-0.0027	Pass		
				-10	3.8	-2.632	-0.0037	Pass		
				0	3.8	-0.415	-0.0006	Pass		
				10	3.8	-3.476	-0.0049	Pass		
				30	3.8	-2.317	-0.0033	Pass		
	40	3.8	-1.473	-0.0021	Pass					
	50	3.8	0.672	0.0009	Pass					
	713.5	25	0	20	3.4	-1.788	-0.0025	Pass		
					3.8	-2.189	-0.0031	Pass		
					4.4	-3.347	-0.0047	Pass		
				-30	3.8	-1.230	-0.0017	Pass		
				-20	3.8	-1.917	-0.0027	Pass		
				-10	3.8	-6.967	-0.0098	Pass		
				0	3.8	-1.373	-0.0019	Pass		
				10	3.8	-1.101	-0.0015	Pass		
				30	3.8	0.386	0.0005	Pass		
				40	3.8	-5.136	-0.0072	Pass		
				50	3.8	-3.119	-0.0044	Pass		
				701.5	25	0	20	3.4	-3.705	-0.0053
3.8								-2.761	-0.0039	Pass
4.4								-3.076	-0.0044	Pass
-30	3.8	-1.645	-0.0023				Pass			
-20	3.8	-2.632	-0.0038				Pass			
-10	3.8	-5.193	-0.0074				Pass			
0	3.8	-3.018	-0.0043				Pass			
10	3.8	-2.332	-0.0033				Pass			
30	3.8	-1.960	-0.0028				Pass			
40	3.8	-2.303	-0.0033				Pass			
50	3.8	-3.519	-0.0050				Pass			
707.5	25	0	20				3.4	-3.505	-0.0050	Pass
							3.8	-1.845	-0.0026	Pass
							4.4	-1.202	-0.0017	Pass
			-30	3.8	-2.317	-0.0033	Pass			
			-20	3.8	-1.287	-0.0018	Pass			
			-10	3.8	-2.117	-0.0030	Pass			
			0	3.8	-1.459	-0.0021	Pass			
			10	3.8	-1.259	-0.0018	Pass			
			30	3.8	-1.545	-0.0022	Pass			
			40	3.8	-1.359	-0.0019	Pass			



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	713.5	25	0	50	3.8	-3.147	-0.0044	Pass
				20	3.4	-0.443	-0.0006	Pass
					3.8	-1.116	-0.0016	Pass
					4.4	-3.204	-0.0045	Pass
					-30	3.8	-5.808	-0.0081
				-20	3.8	-0.887	-0.0012	Pass
				-10	3.8	-4.020	-0.0056	Pass
				0	3.8	-1.101	-0.0015	Pass
				10	3.8	-3.004	-0.0042	Pass
				30	3.8	-1.574	-0.0022	Pass
				40	3.8	-1.731	-0.0024	Pass
				50	3.8	-2.146	-0.0030	Pass
256QAM	701.5	25	0	20	3.4	-3.762	-0.0054	Pass
					3.8	-3.819	-0.0054	Pass
					4.4	-3.090	-0.0044	Pass
				-30	3.8	-0.186	-0.0003	Pass
				-20	3.8	-3.705	-0.0053	Pass
				-10	3.8	-0.958	-0.0014	Pass
				0	3.8	-5.035	-0.0072	Pass
				10	3.8	-2.360	-0.0034	Pass
				30	3.8	-4.191	-0.0060	Pass
				40	3.8	-2.217	-0.0032	Pass
				50	3.8	-3.490	-0.0050	Pass
				707.5	25	0	20	3.4
	3.8	-3.133	-0.0044					Pass
	4.4	-2.732	-0.0039					Pass
	-30	3.8	-0.715				-0.0010	Pass
	-20	3.8	-1.774				-0.0025	Pass
	-10	3.8	1.516				0.0021	Pass
	0	3.8	-2.933				-0.0041	Pass
	10	3.8	-0.129				-0.0002	Pass
	30	3.8	-1.459				-0.0021	Pass
	40	3.8	-0.615				-0.0009	Pass
	50	3.8	-0.801				-0.0011	Pass
	713.5	25	0				20	3.4
				3.8	-2.232	-0.0031		Pass
4.4				-0.529	-0.0007	Pass		
-30				3.8	-4.535	-0.0064	Pass	
-20				3.8	-5.021	-0.0070	Pass	
-10				3.8	-1.531	-0.0021	Pass	
0				3.8	-5.236	-0.0073	Pass	
10				3.8	-2.232	-0.0031	Pass	
30				3.8	-2.546	-0.0036	Pass	
40				3.8	-3.204	-0.0045	Pass	
50				3.8	-3.104	-0.0044	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		
QPSK	704	50	0	20	3.4	-1.431	-0.0020	Pass	
					3.8	-1.903	-0.0027	Pass	
					4.4	-1.416	-0.0020	Pass	
				-30	3.8	-2.260	-0.0032	Pass	
					-20	3.8	-2.303	-0.0033	Pass
						3.8	-1.316	-0.0019	Pass
				0	3.8	-2.933	-0.0042	Pass	
					10	3.8	-2.747	-0.0039	Pass
				30	3.8	0.787	0.0011	Pass	
					40	3.8	-2.418	-0.0034	Pass
	50	3.8	-2.689	-0.0038	Pass				
	707.5	50	0	20	3.4	-1.574	-0.0022	Pass	
					3.8	-0.272	-0.0004	Pass	
					4.4	-1.345	-0.0019	Pass	
				-30	3.8	0.958	0.0014	Pass	
					-20	3.8	-2.675	-0.0038	Pass
						3.8	-3.304	-0.0047	Pass
				0	3.8	-0.229	-0.0003	Pass	
					10	3.8	-4.077	-0.0058	Pass
				30	3.8	-0.744	-0.0011	Pass	
					40	3.8	-1.216	-0.0017	Pass
	50	3.8	-2.117	-0.0030	Pass				
	711	50	0	20	3.4	0.143	0.0002	Pass	
					3.8	-1.345	-0.0019	Pass	
					4.4	-1.817	-0.0026	Pass	
				-30	3.8	-0.114	-0.0002	Pass	
					-20	3.8	-0.687	-0.0010	Pass
						3.8	-0.172	-0.0002	Pass
				0	3.8	-0.401	-0.0006	Pass	
					10	3.8	-1.445	-0.0020	Pass
30				3.8	-0.858	-0.0012	Pass		
				40	3.8	-2.046	-0.0029	Pass	
50	3.8	-3.505	-0.0049	Pass					
16QAM	704	50	0	20	3.4	-2.174	-0.0031	Pass	
					3.8	-2.789	-0.0040	Pass	
					4.4	-2.203	-0.0031	Pass	
				-30	3.8	-2.975	-0.0042	Pass	



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64QAM	707.5	50	0	-20	3.8	-0.501	-0.0007	Pass			
				-10	3.8	-2.661	-0.0038	Pass			
				0	3.8	-1.645	-0.0023	Pass			
				10	3.8	-2.947	-0.0042	Pass			
				30	3.8	-4.578	-0.0065	Pass			
				40	3.8	-2.232	-0.0032	Pass			
				50	3.8	-0.501	-0.0007	Pass			
	711	50	0	20	3.4	0.873	0.0012	Pass			
					3.8	-0.801	-0.0011	Pass			
					4.4	-1.745	-0.0025	Pass			
				-30	3.8	-1.845	-0.0026	Pass			
				-20	3.8	-0.815	-0.0012	Pass			
				-10	3.8	-1.345	-0.0019	Pass			
				0	3.8	-0.429	-0.0006	Pass			
				10	3.8	-2.046	-0.0029	Pass			
				30	3.8	-0.029	0.0000	Pass			
				40	3.8	-0.100	-0.0001	Pass			
				50	3.8	-1.817	-0.0026	Pass			
				704	50	0	20	3.4	-0.715	-0.0010	Pass
								3.8	-3.719	-0.0052	Pass
								4.4	-2.389	-0.0034	Pass
	-30	3.8	-3.047				-0.0043	Pass			
	-20	3.8	-1.788				-0.0025	Pass			
	-10	3.8	-2.518				-0.0035	Pass			
	0	3.8	-0.787				-0.0011	Pass			
	10	3.8	-0.172				-0.0002	Pass			
	30	3.8	-1.445				-0.0020	Pass			
	40	3.8	-1.202				-0.0017	Pass			
50	3.8	-1.688	-0.0024				Pass				
707.5	50	0	20	3.4	-4.921	-0.0070	Pass				
				3.8	-3.061	-0.0043	Pass				
				4.4	-3.433	-0.0049	Pass				
			-30	3.8	-3.648	-0.0052	Pass				
			-20	3.8	-2.933	-0.0042	Pass				
			-10	3.8	0.587	0.0008	Pass				
			0	3.8	-1.745	-0.0025	Pass				
			10	3.8	-4.778	-0.0068	Pass				
			30	3.8	-1.488	-0.0021	Pass				
			40	3.8	-3.018	-0.0043	Pass				
			50	3.8	-2.360	-0.0034	Pass				
			707.5	50	0	20	3.4	1.702	0.0024	Pass	
							3.8	-1.516	-0.0021	Pass	
4.4	-1.516	-0.0021					Pass				
-30	3.8	-2.189				-0.0031	Pass				
-20	3.8	-0.916				-0.0013	Pass				
-10	3.8	-3.262				-0.0046	Pass				
0	3.8	-1.631				-0.0023	Pass				
10	3.8	-1.745	-0.0025	Pass							



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				30	3.8	0.114	0.0002	Pass				
				40	3.8	-0.486	-0.0007	Pass				
				50	3.8	-0.172	-0.0002	Pass				
				20	3.4	-2.360	-0.0033	Pass				
					3.8	-1.001	-0.0014	Pass				
					4.4	-1.917	-0.0027	Pass				
				-30	3.8	-0.730	-0.0010	Pass				
				-20	3.8	-3.462	-0.0049	Pass				
				-10	3.8	-1.917	-0.0027	Pass				
				0	3.8	-2.346	-0.0033	Pass				
				10	3.8	-2.418	-0.0034	Pass				
				30	3.8	-0.458	-0.0006	Pass				
				40	3.8	-0.229	-0.0003	Pass				
50	3.8	-0.215	-0.0003	Pass								
				20	3.4	-2.689	-0.0038	Pass				
					3.8	-0.701	-0.0010	Pass				
					4.4	-3.319	-0.0047	Pass				
				-30	3.8	-4.249	-0.0060	Pass				
				-20	3.8	-3.119	-0.0044	Pass				
				-10	3.8	-1.988	-0.0028	Pass				
				0	3.8	-2.432	-0.0035	Pass				
				10	3.8	-0.958	-0.0014	Pass				
				30	3.8	-1.960	-0.0028	Pass				
				40	3.8	-2.675	-0.0038	Pass				
				50	3.8	-2.160	-0.0031	Pass				
				256QAM	704	50	0	20	3.4	-3.061	-0.0043	Pass
									3.8	-0.844	-0.0012	Pass
4.4	-1.302	-0.0018	Pass									
-30	3.8	-2.604	-0.0037					Pass				
-20	3.8	0.443	0.0006					Pass				
-10	3.8	-1.402	-0.0020					Pass				
0	3.8	-2.017	-0.0029					Pass				
10	3.8	-0.472	-0.0007					Pass				
30	3.8	-0.930	-0.0013					Pass				
40	3.8	0.443	0.0006					Pass				
50	3.8	-0.157	-0.0002					Pass				
	711	50	0					20	3.4	-1.702	-0.0024	Pass
									3.8	-0.944	-0.0013	Pass
				4.4	-0.143	-0.0002	Pass					
				-30	3.8	-3.419	-0.0048	Pass				
				-20	3.8	-0.801	-0.0011	Pass				
				-10	3.8	-1.616	-0.0023	Pass				
				0	3.8	-2.546	-0.0036	Pass				
				10	3.8	-4.292	-0.0060	Pass				
				30	3.8	-1.731	-0.0024	Pass				
				40	3.8	-2.646	-0.0037	Pass				
				50	3.8	-0.157	-0.0002	Pass				



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3. 99% & 26dB Bandwidth

3.1 Band12_OBW

3.1.1 Test Result

Band: 12 / NTVN							
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	1.102	/	Pass
		715.3	6	0	1.110	/	Pass
	16QAM	699.7	6	0	1.112	/	Pass
		707.5	6	0	1.107	/	Pass
		715.3	6	0	1.109	/	Pass
	64QAM	699.7	6	0	1.102	/	Pass
		707.5	6	0	1.111	/	Pass
		715.3	6	0	1.109	/	Pass
	256QAM	699.7	6	0	1.118	/	Pass
		707.5	6	0	1.100	/	Pass
		715.3	6	0	1.103	/	Pass
3	QPSK	700.5	15	0	2.738	/	Pass
		707.5	15	0	2.723	/	Pass
		714.5	15	0	2.720	/	Pass
	16QAM	700.5	15	0	2.739	/	Pass
		707.5	15	0	2.731	/	Pass
		714.5	15	0	2.726	/	Pass
	64QAM	700.5	15	0	2.732	/	Pass
		707.5	15	0	2.735	/	Pass
		714.5	15	0	2.725	/	Pass
	256QAM	700.5	15	0	2.738	/	Pass
		707.5	15	0	2.729	/	Pass
		714.5	15	0	2.724	/	Pass
5	QPSK	701.5	25	0	4.545	/	Pass
		707.5	25	0	4.556	/	Pass
		713.5	25	0	4.547	/	Pass
	16QAM	701.5	25	0	4.546	/	Pass
		707.5	25	0	4.540	/	Pass
		713.5	25	0	4.539	/	Pass
	64QAM	701.5	25	0	4.545	/	Pass
		707.5	25	0	4.543	/	Pass
		713.5	25	0	4.535	/	Pass
	256QAM	701.5	25	0	4.535	/	Pass
		707.5	25	0	4.564	/	Pass
		713.5	25	0	4.562	/	Pass
10	QPSK	704	50	0	9.049	/	Pass



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	16QAM	707.5	50	0	9.041	/	Pass	
		711	50	0	9.031	/	Pass	
		704	50	0	9.036	/	Pass	
	64QAM	707.5	50	0	9.055	/	Pass	
		711	50	0	9.042	/	Pass	
		704	50	0	9.060	/	Pass	
	256QAM	707.5	50	0	9.043	/	Pass	
		711	50	0	9.028	/	Pass	
		704	50	0	9.037	/	Pass	
			707.5	50	0	9.066	/	Pass
			711	50	0	9.058	/	Pass



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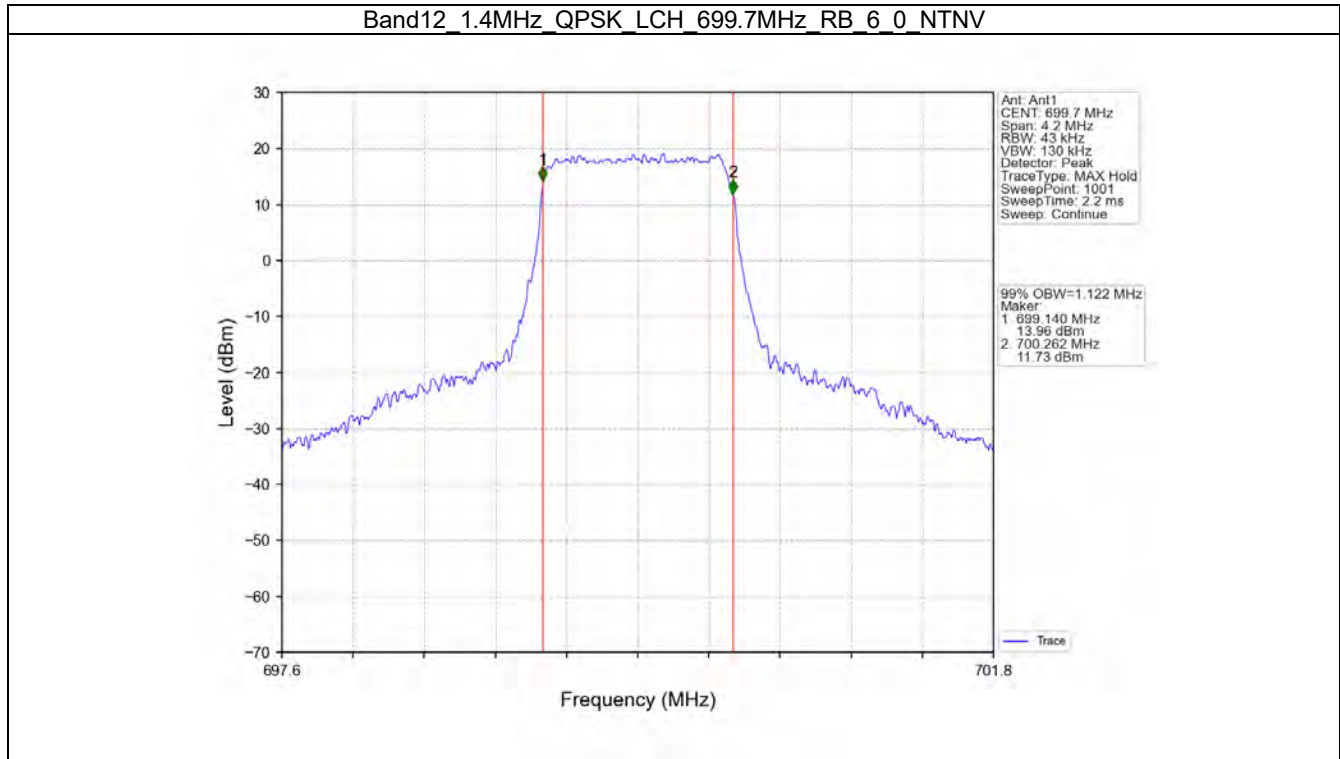
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3.1.2 Test Graph

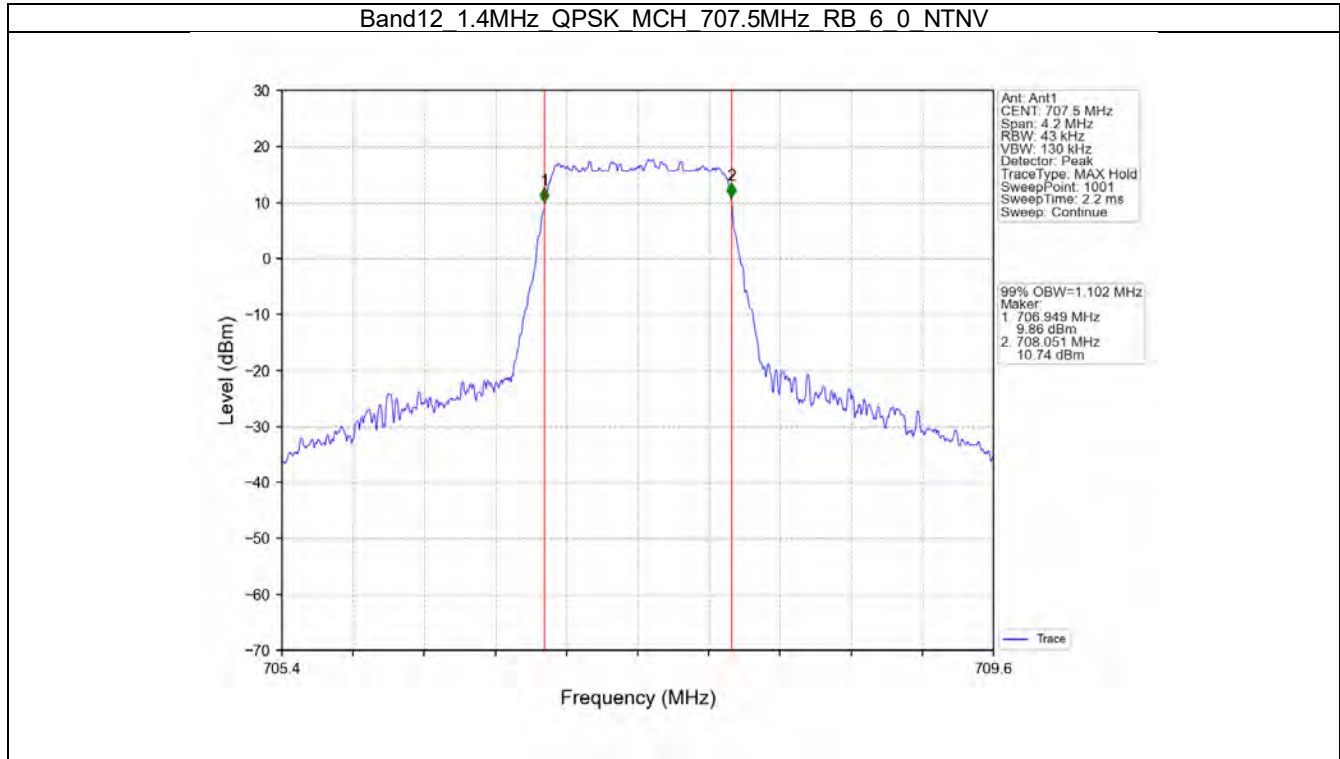


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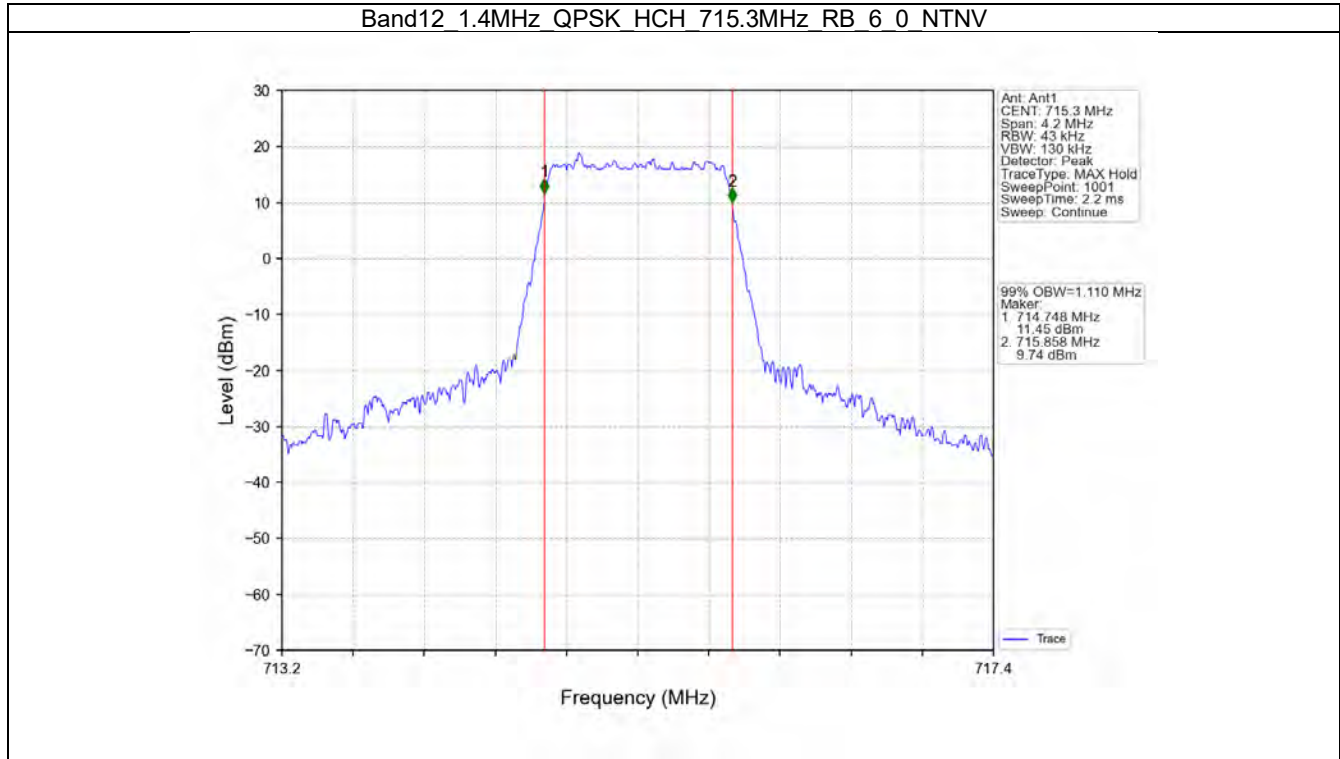
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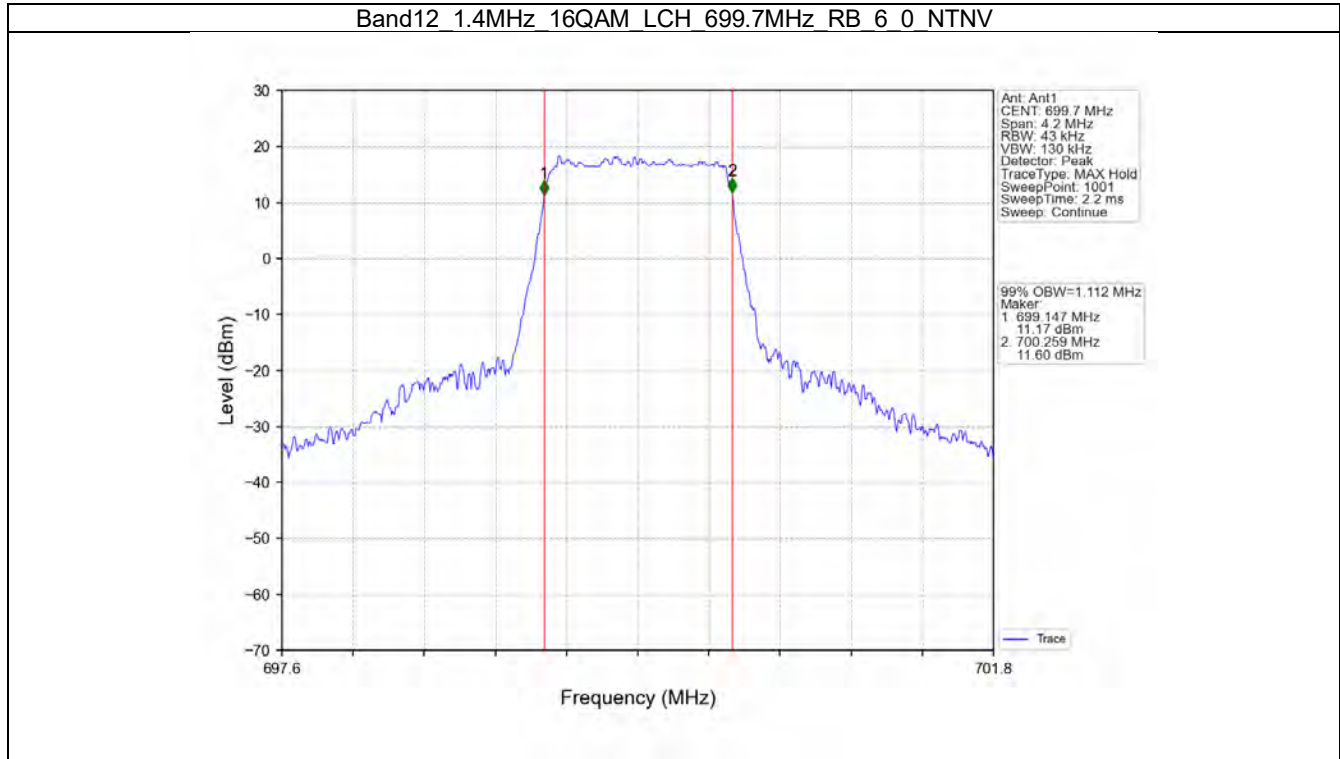
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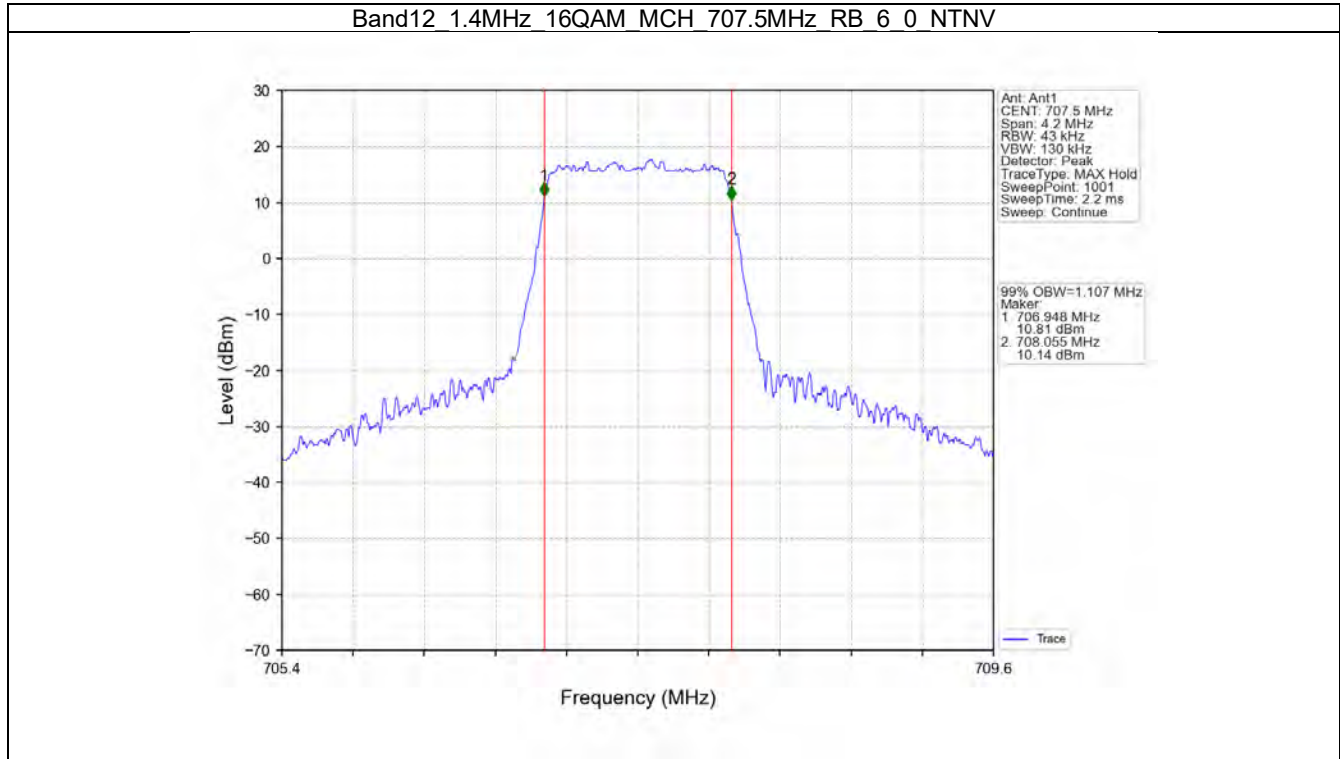
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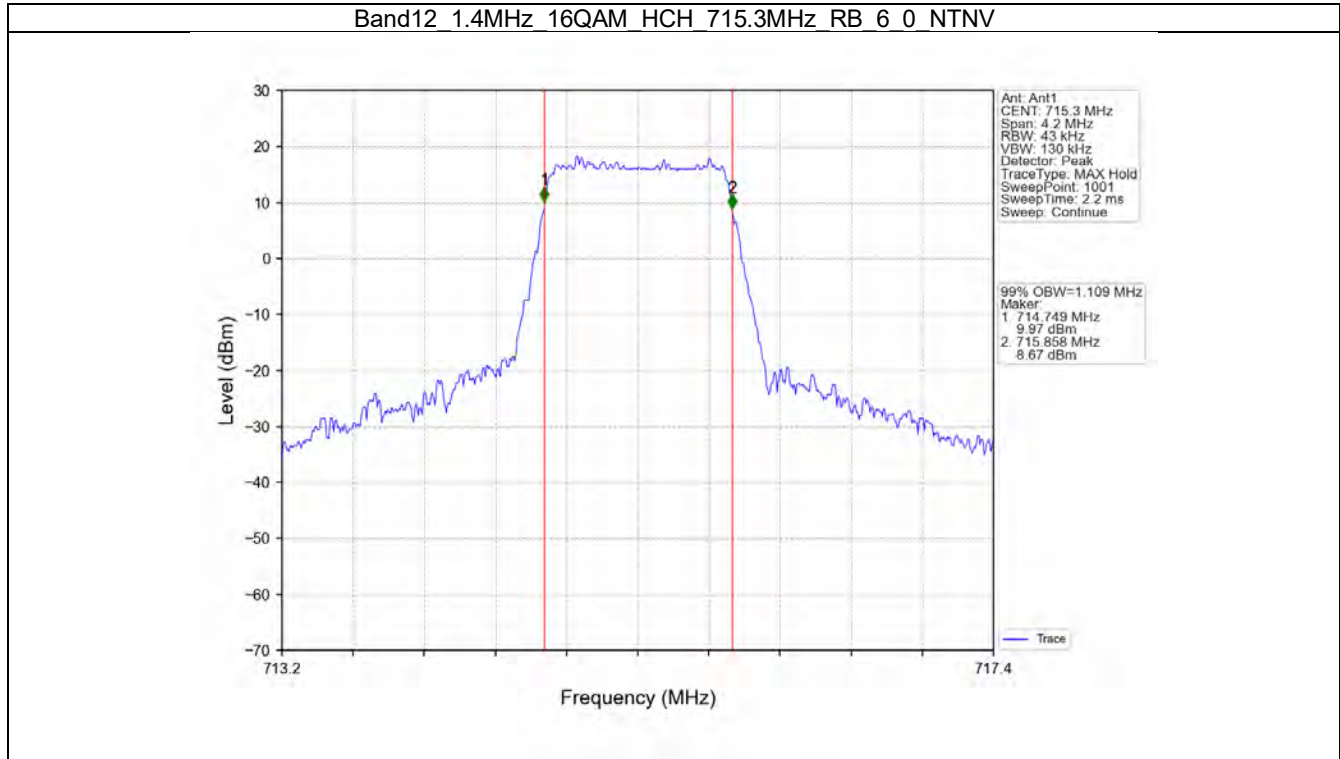
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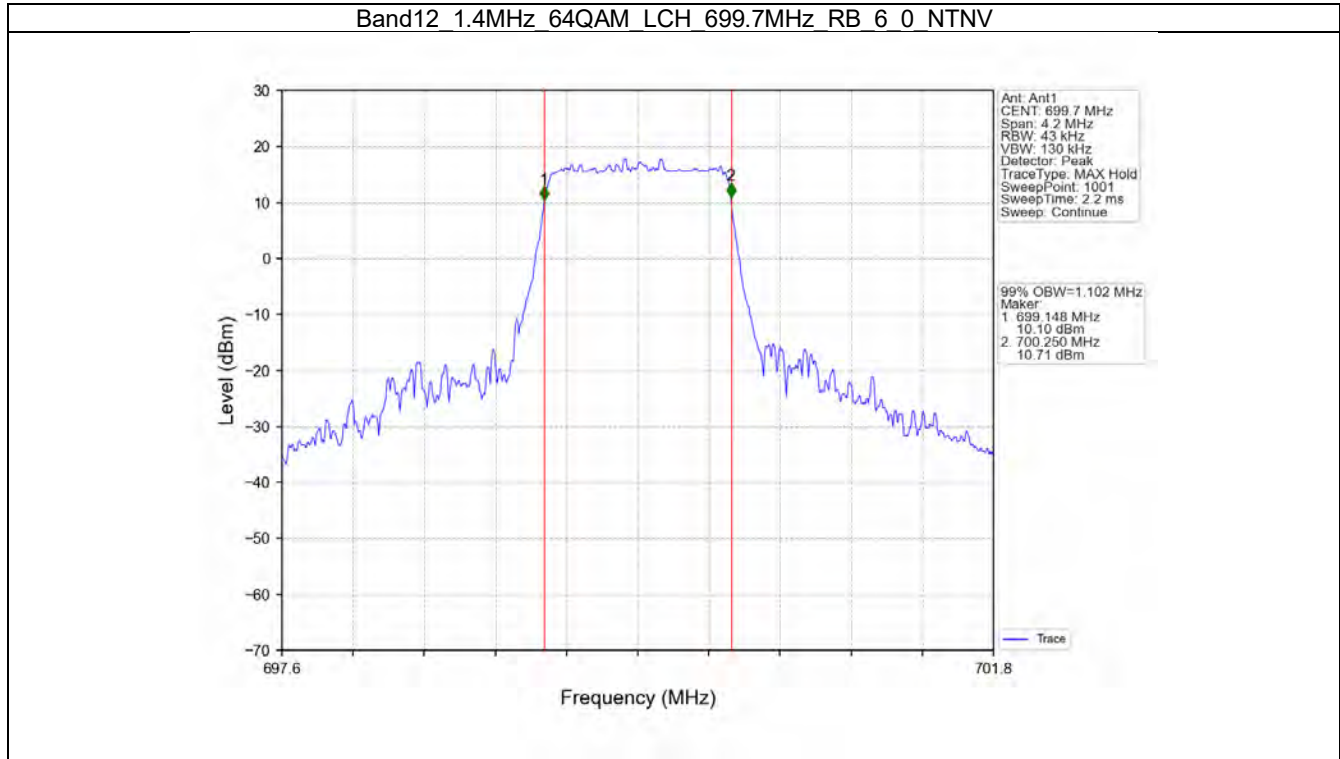
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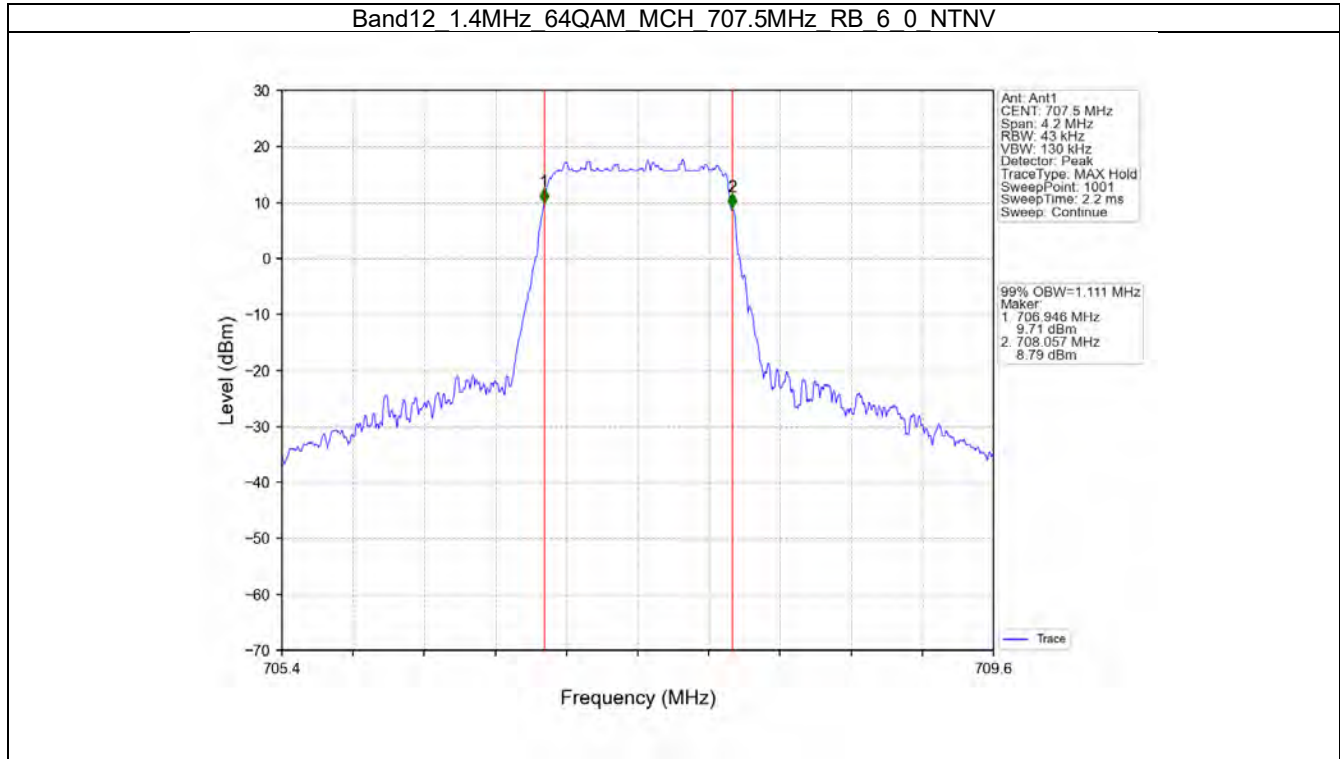
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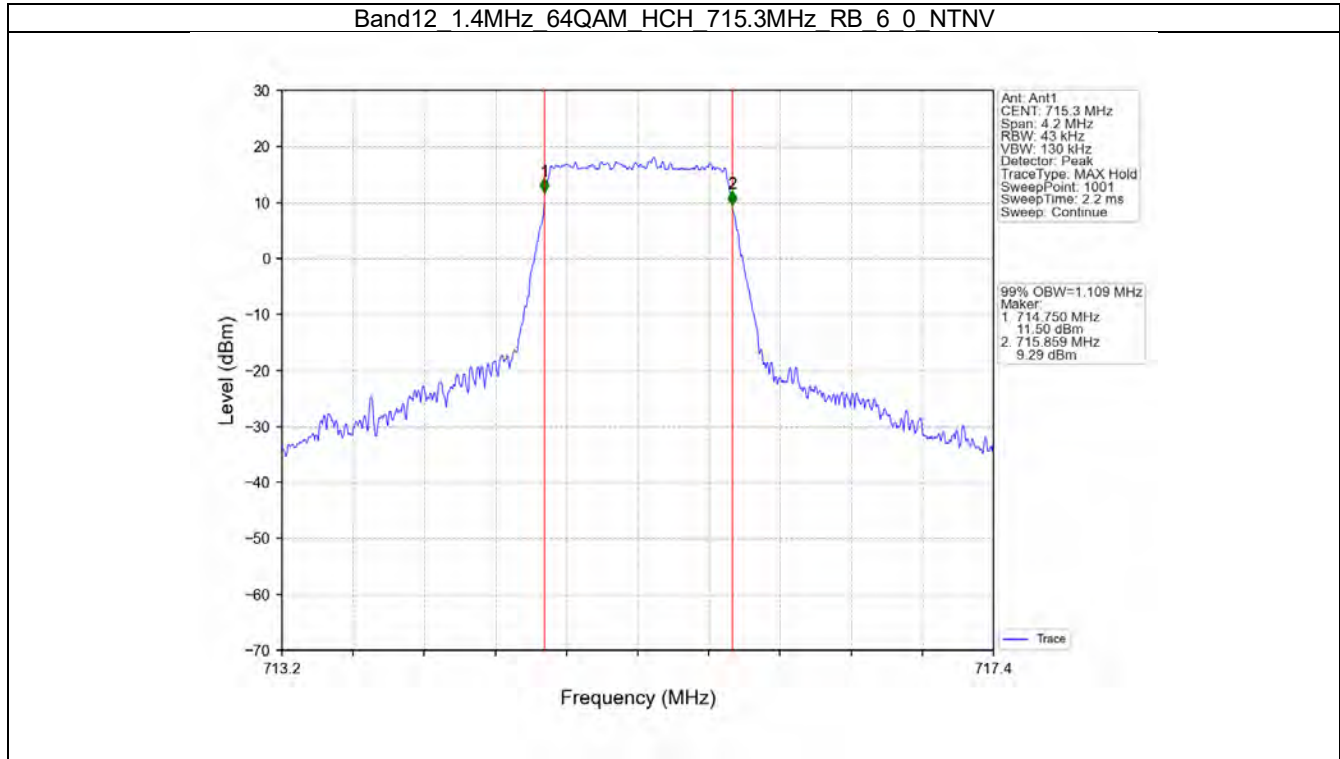
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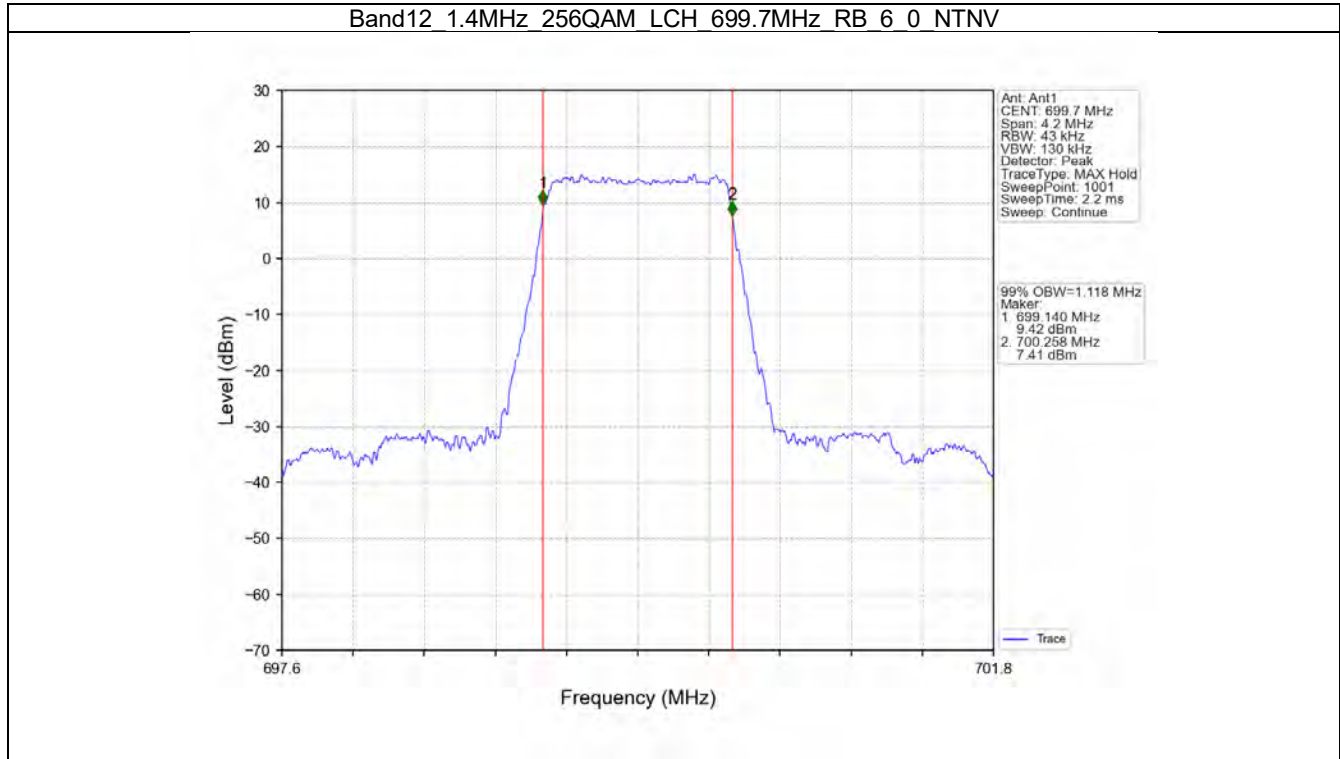


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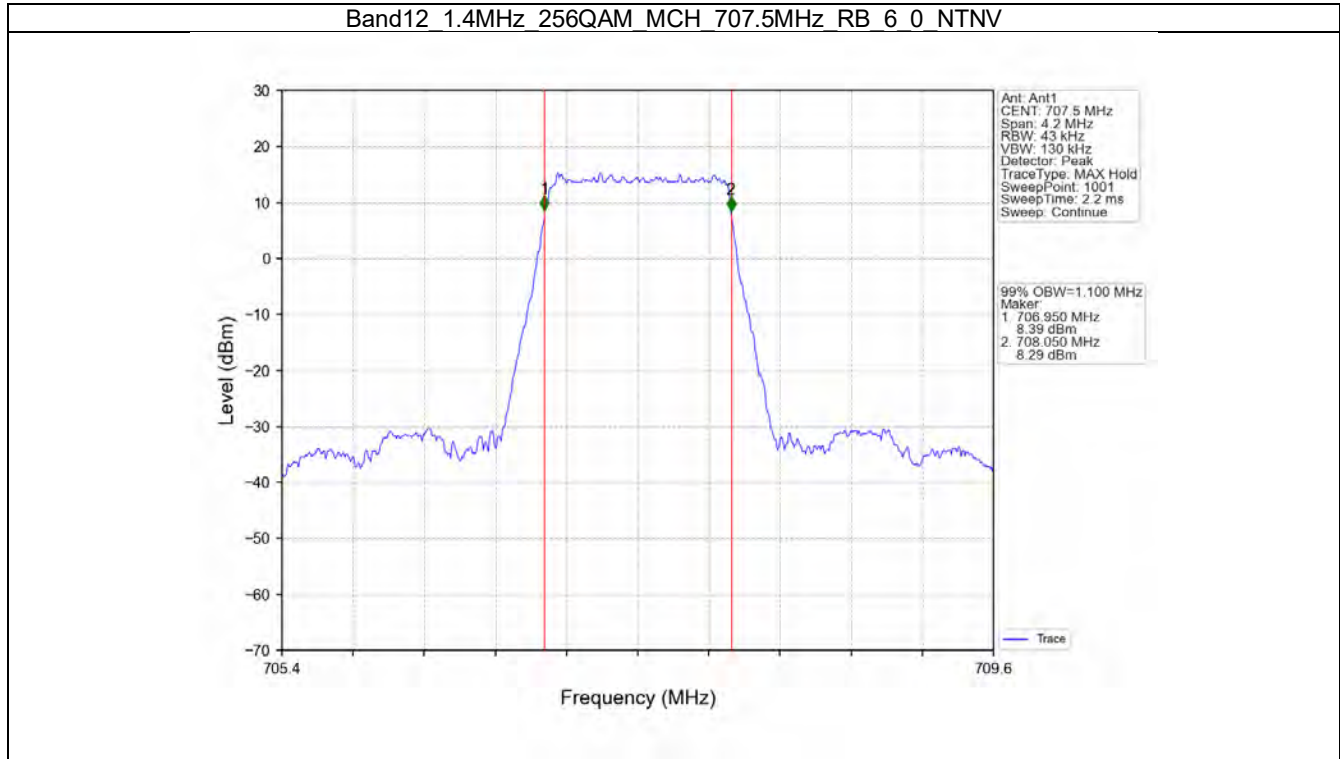
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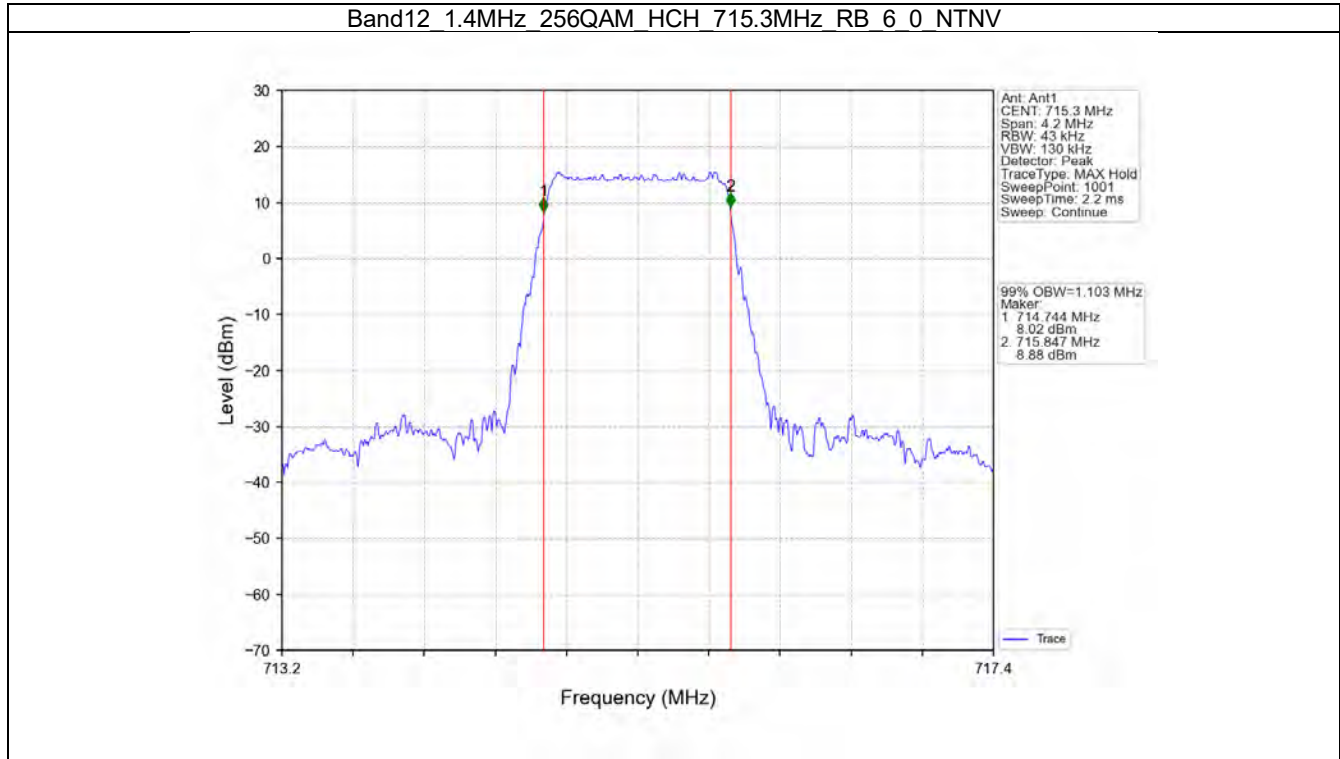
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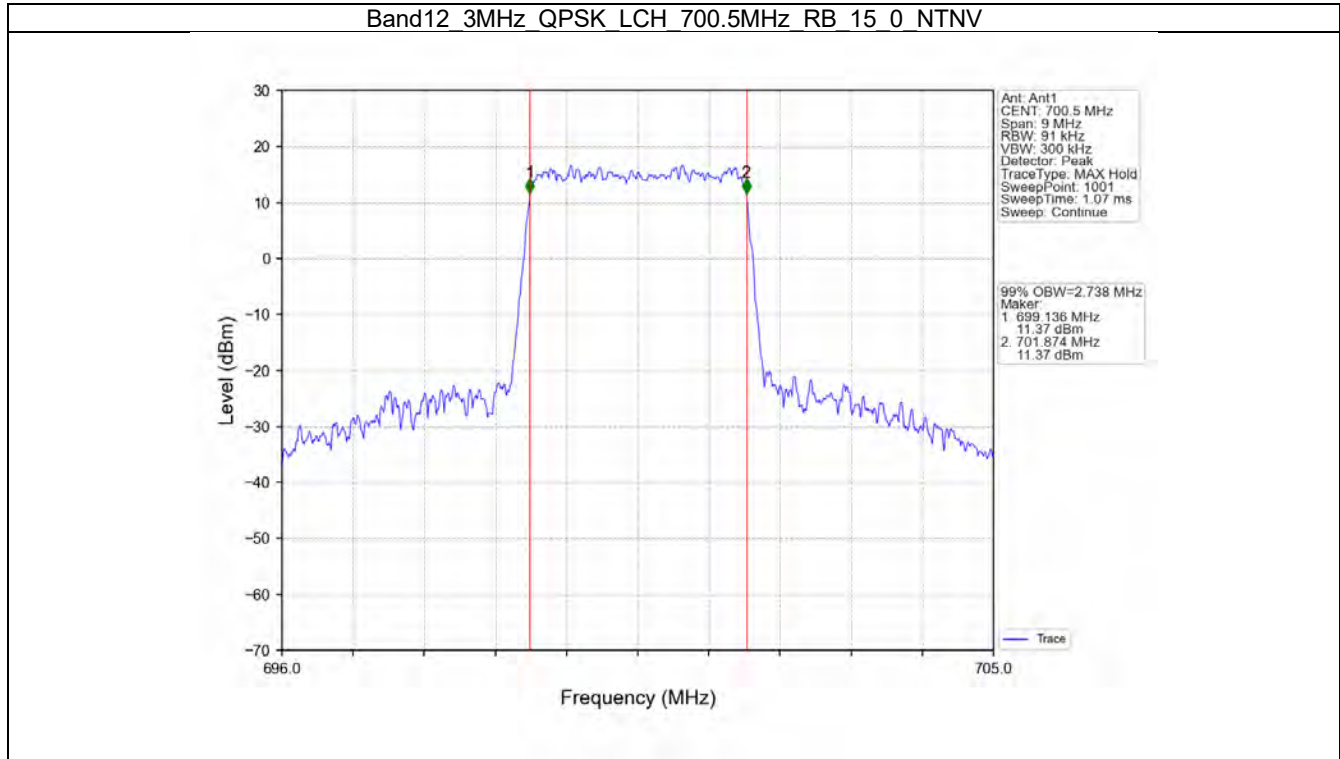
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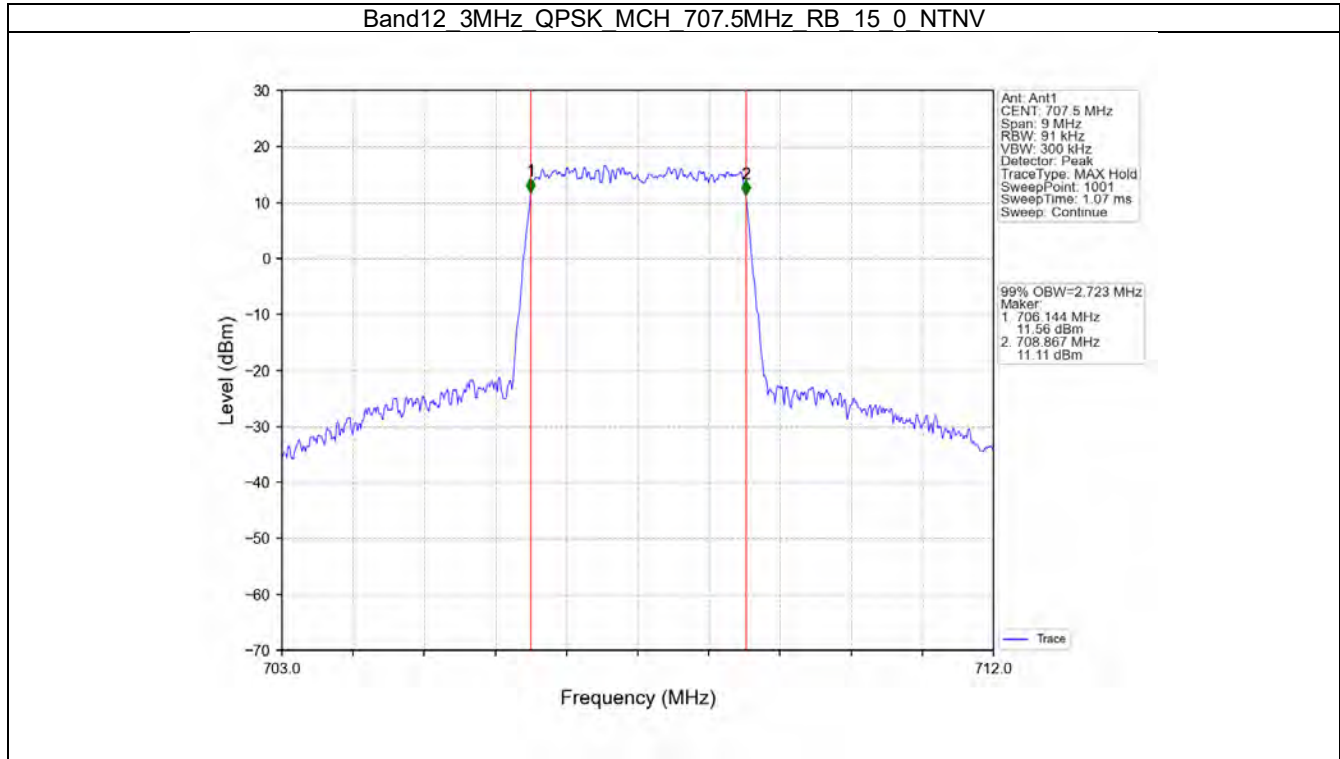
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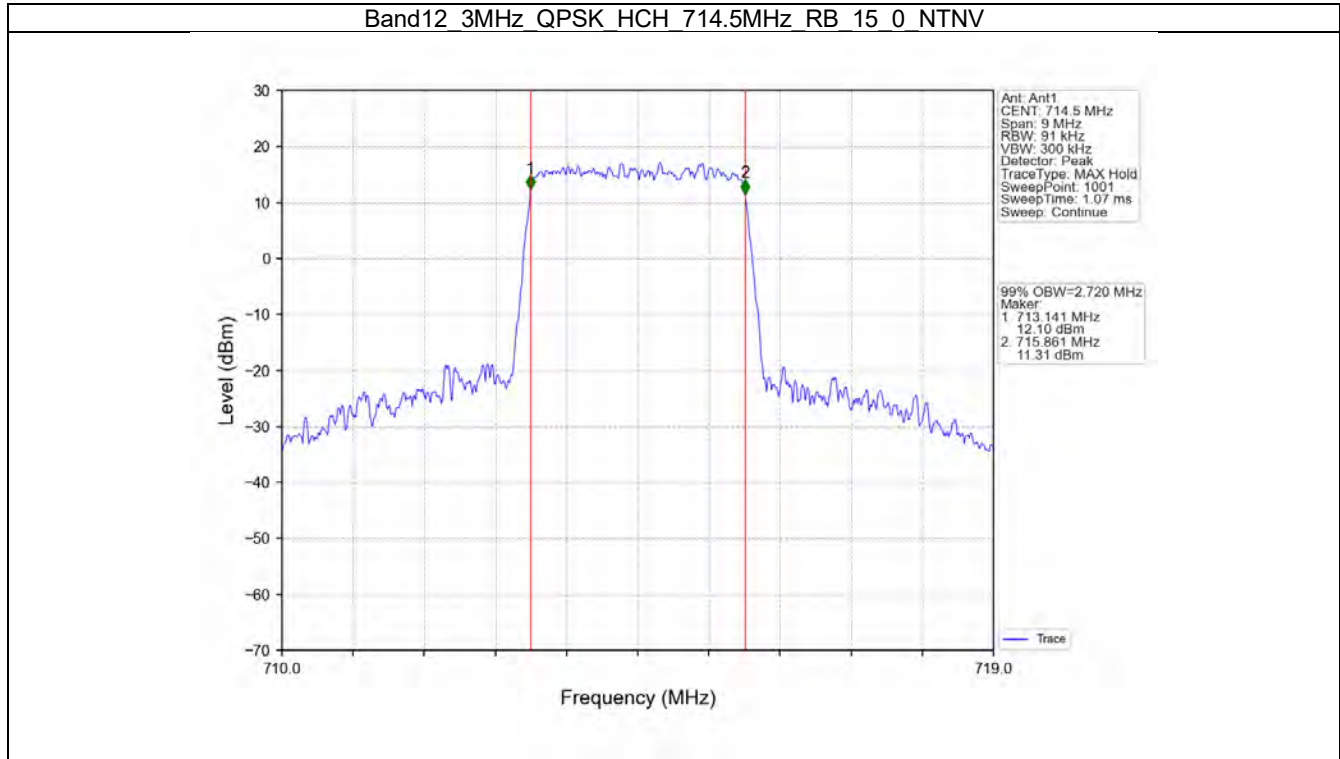
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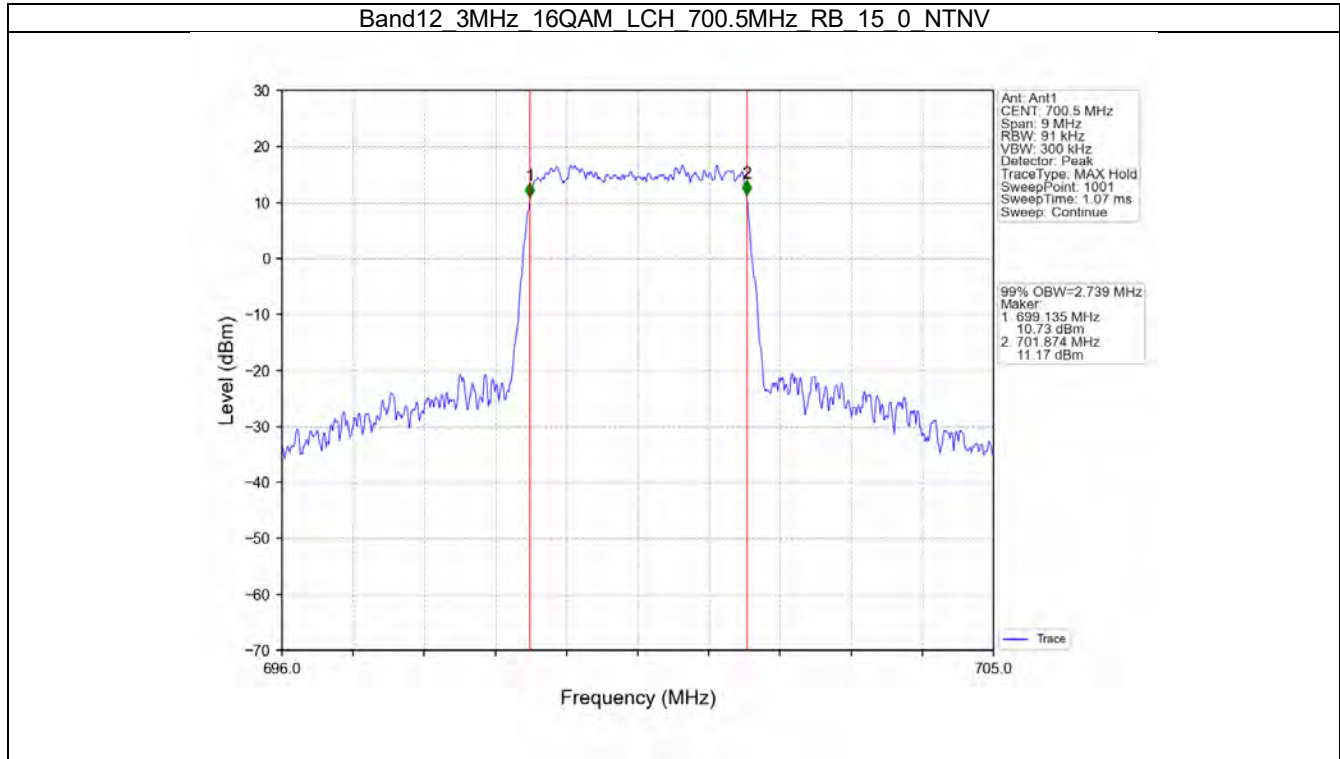
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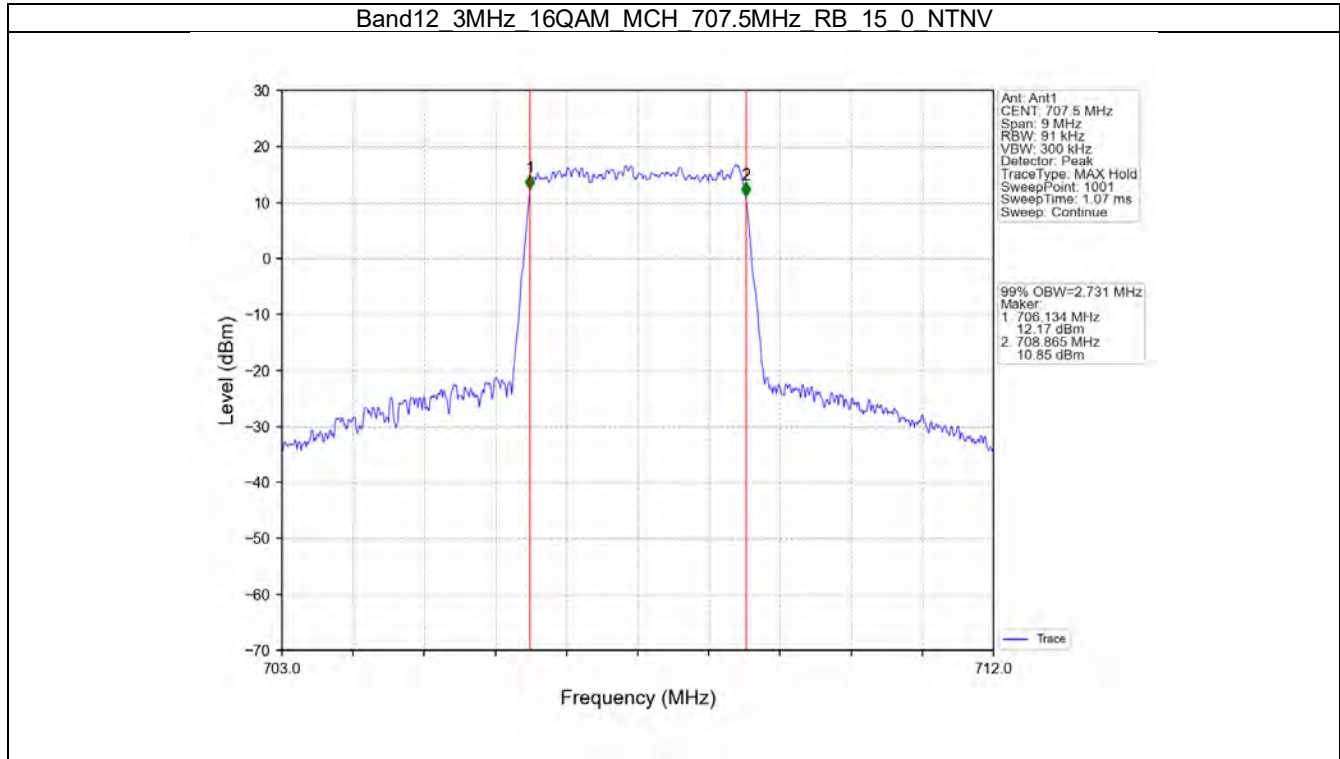
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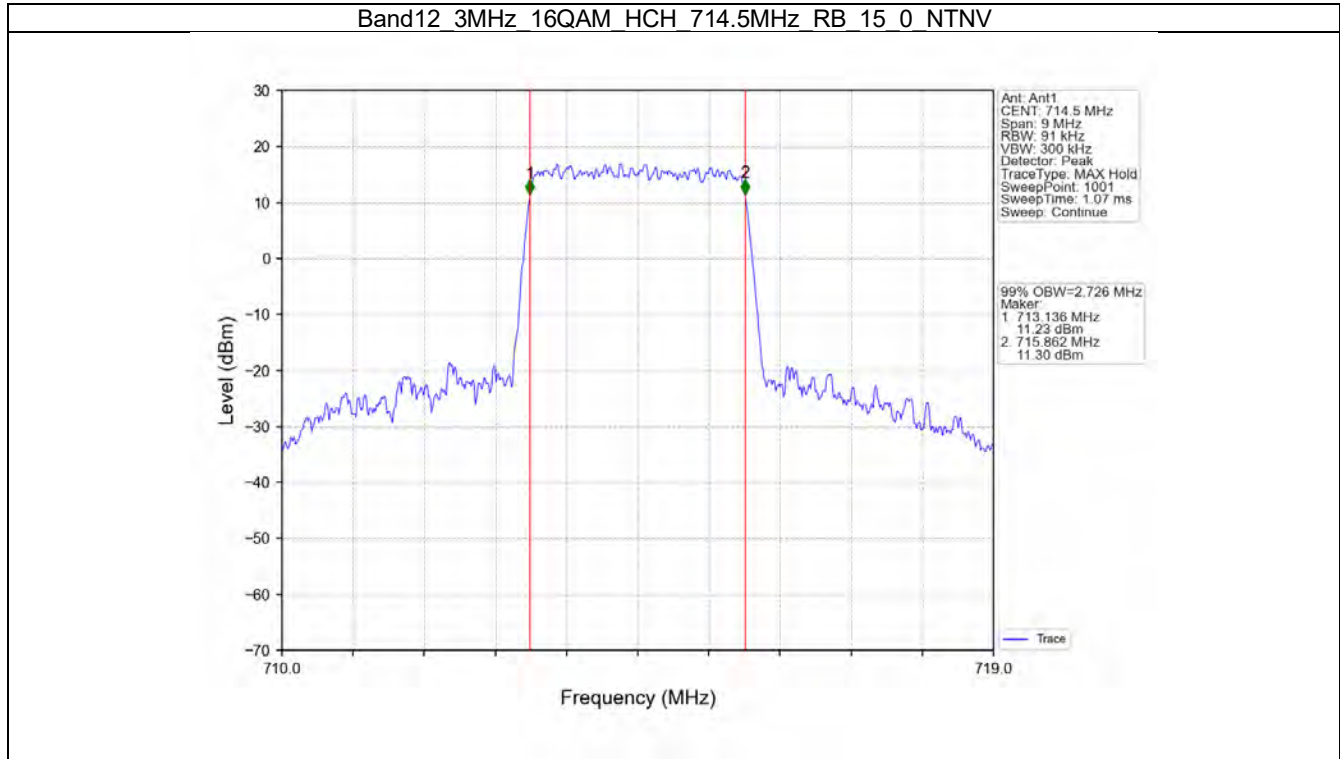
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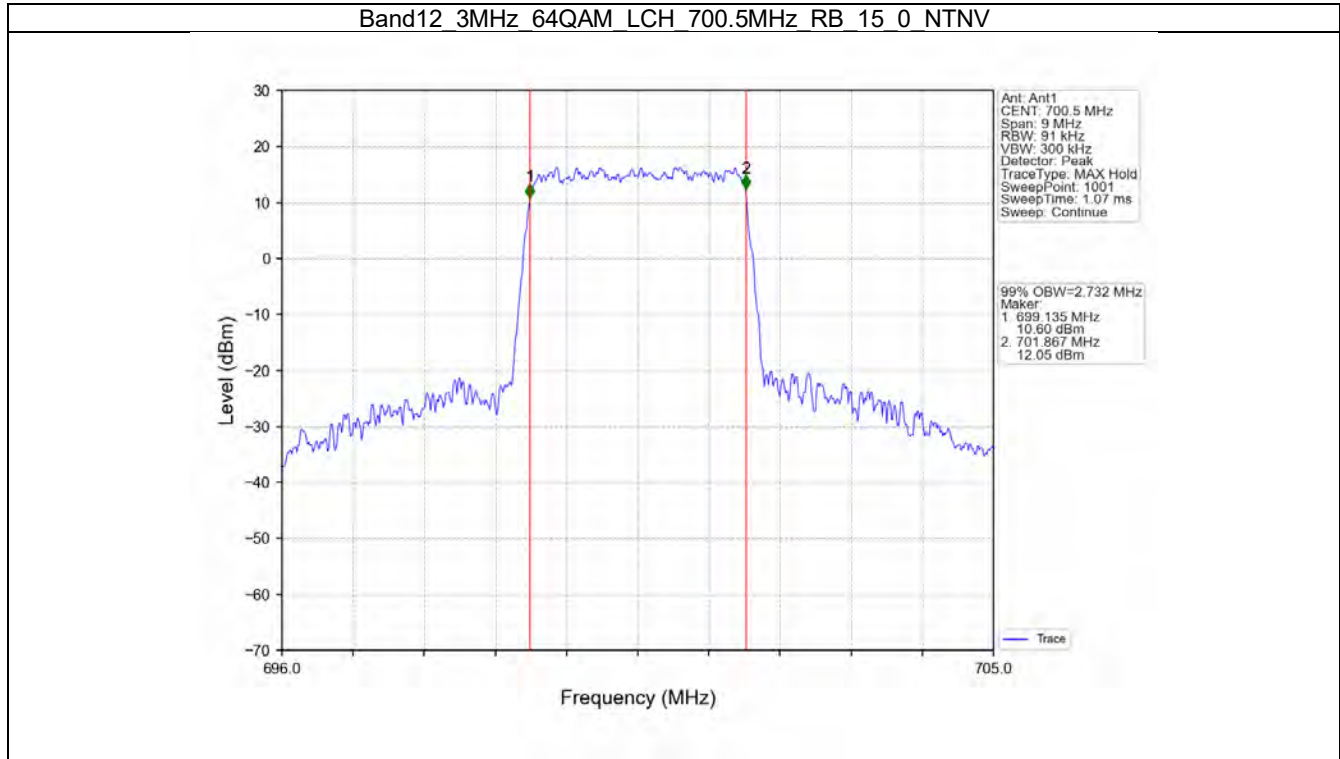
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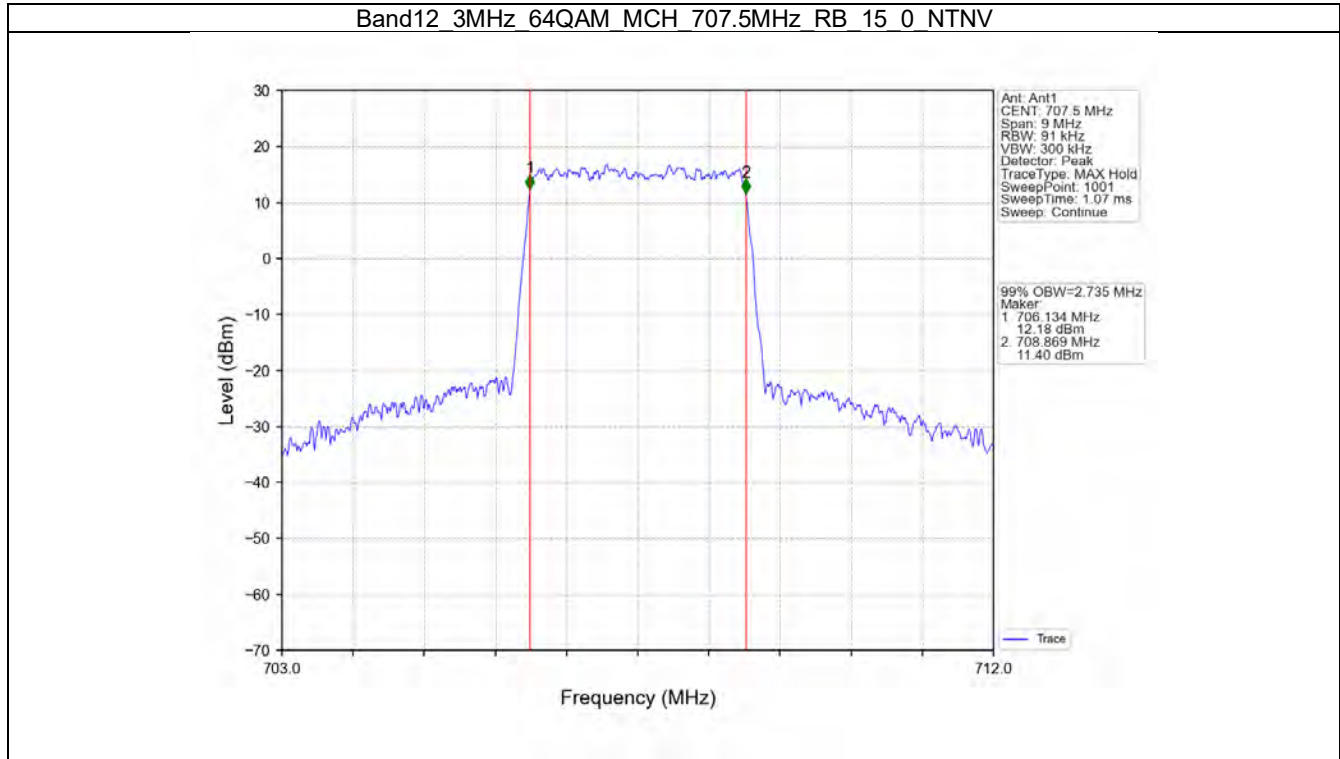
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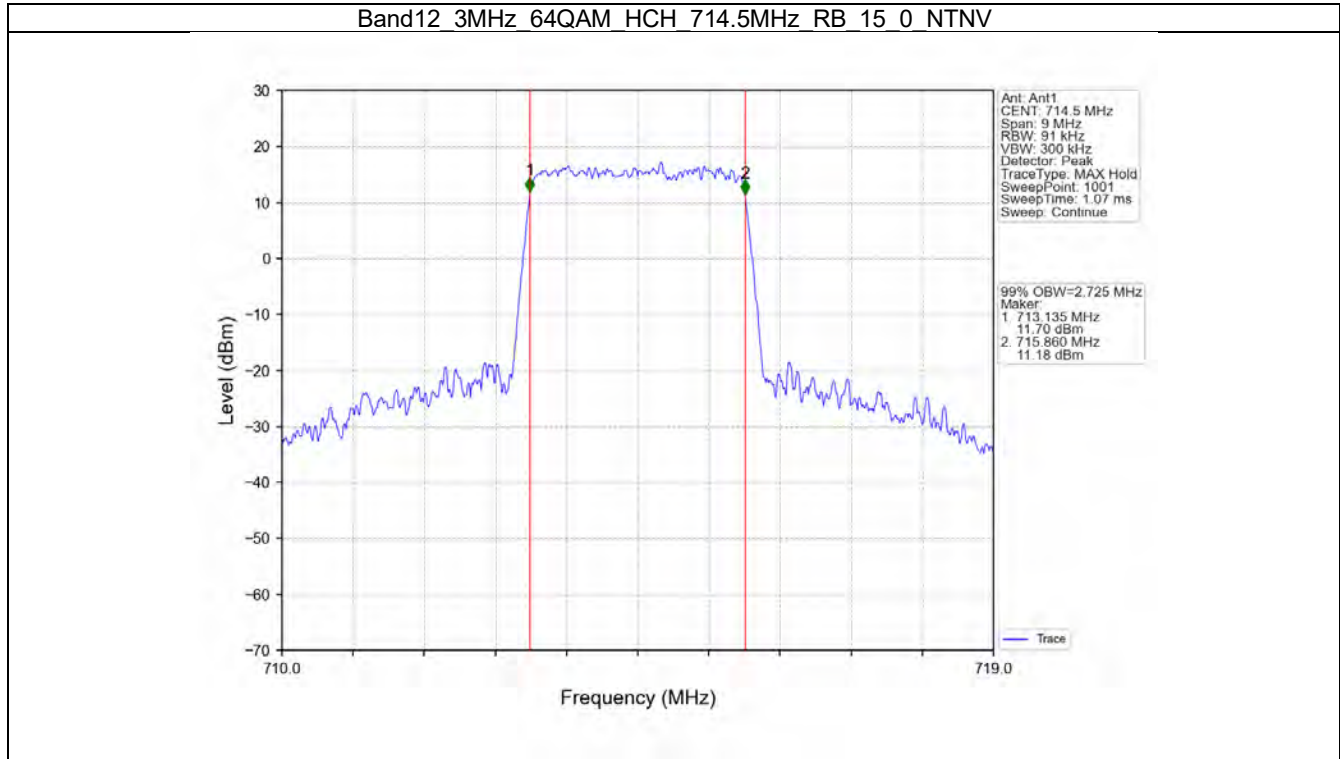
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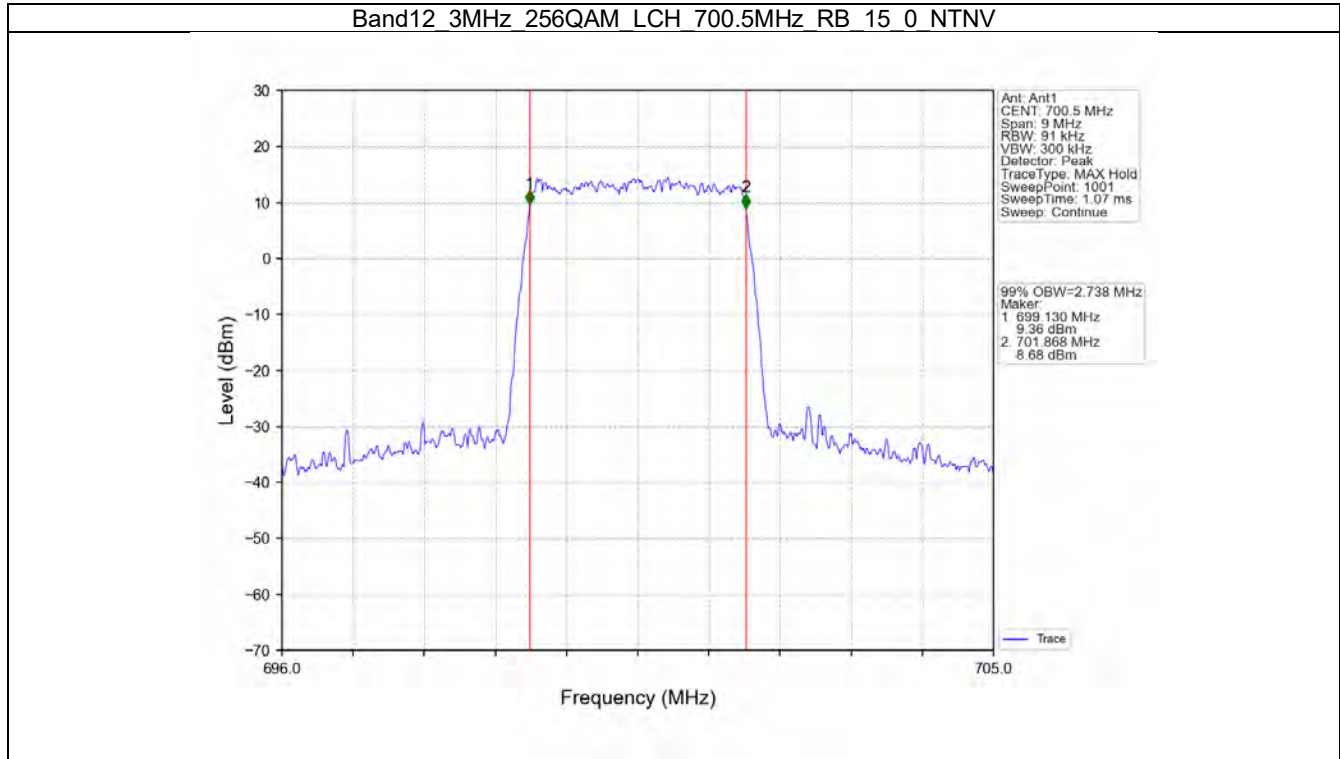
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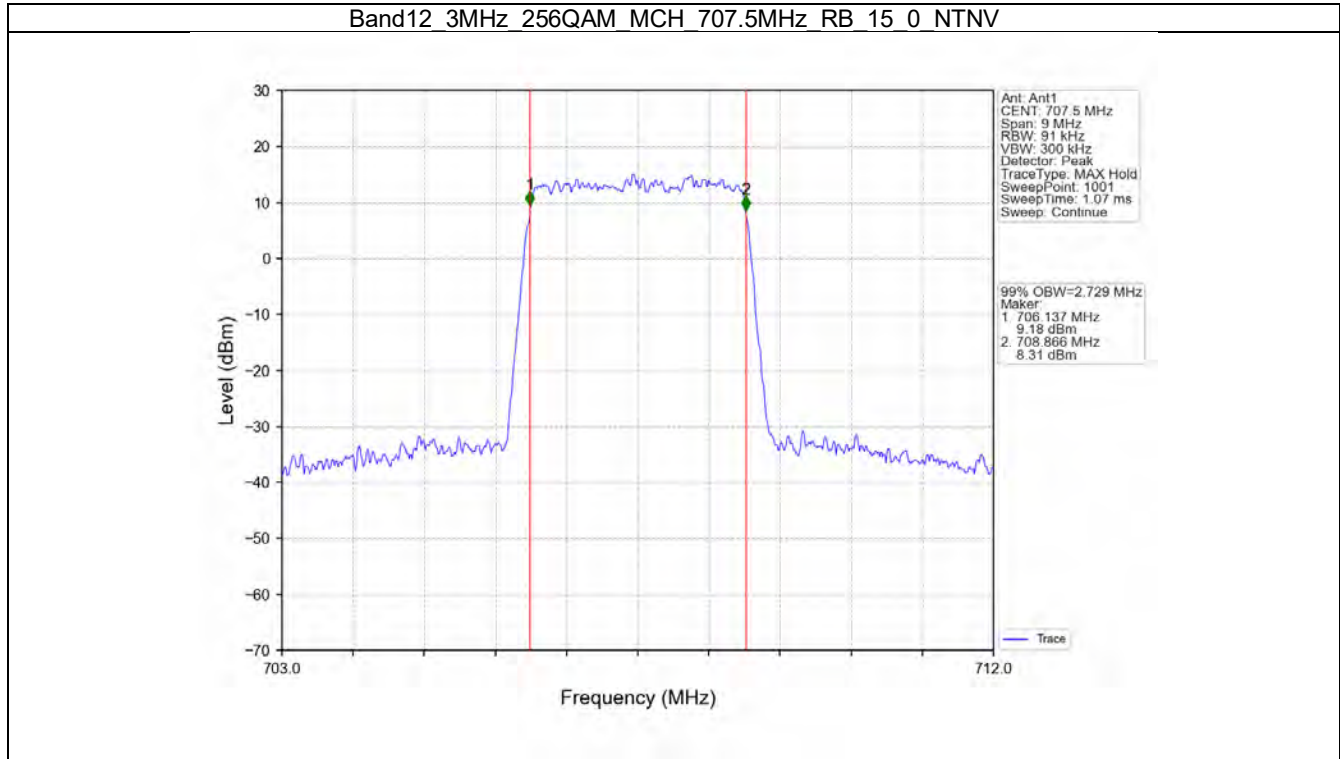
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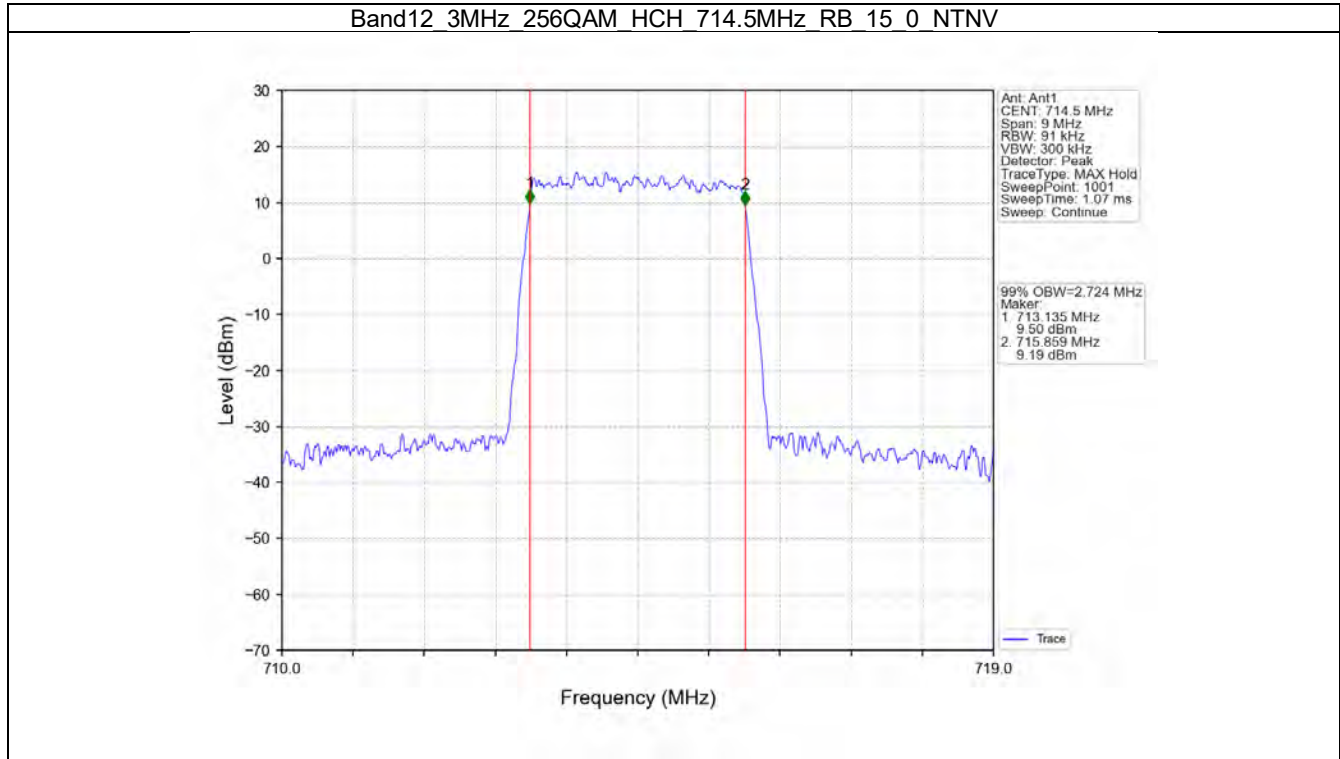
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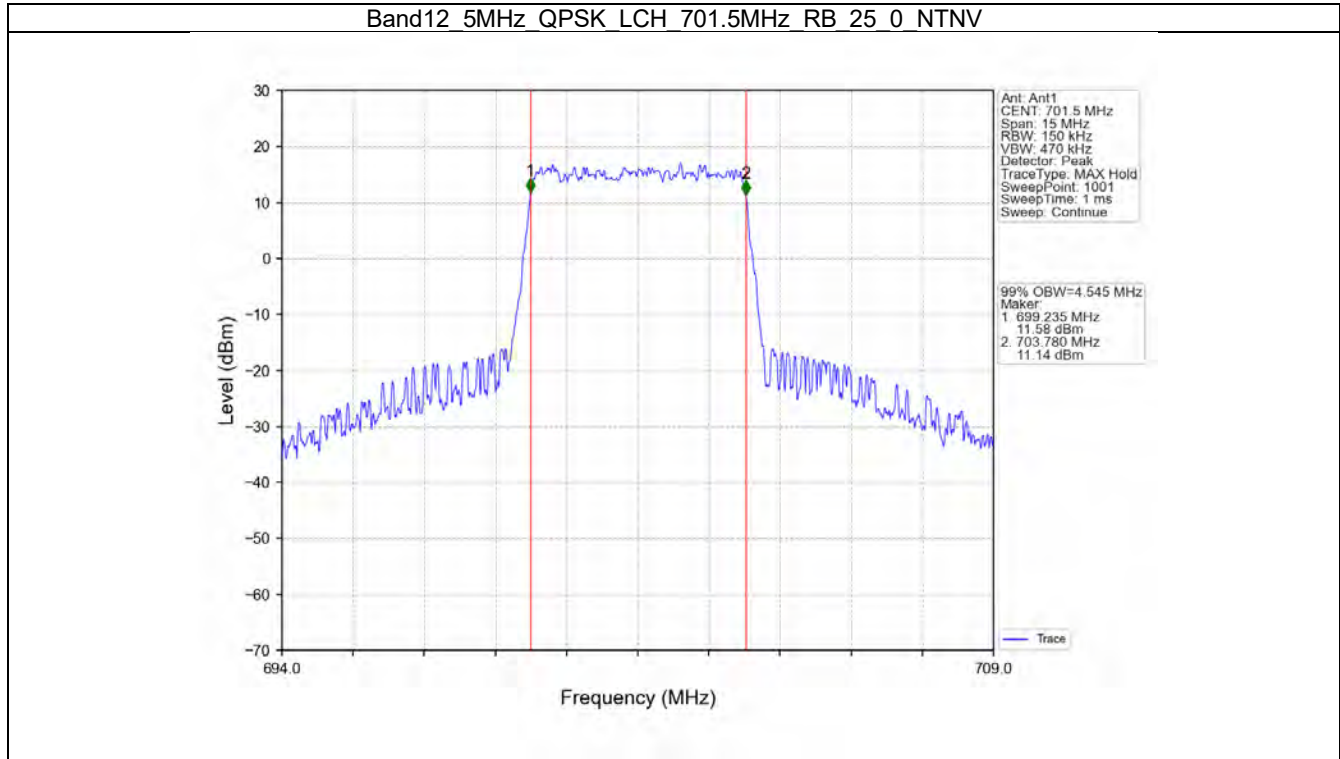
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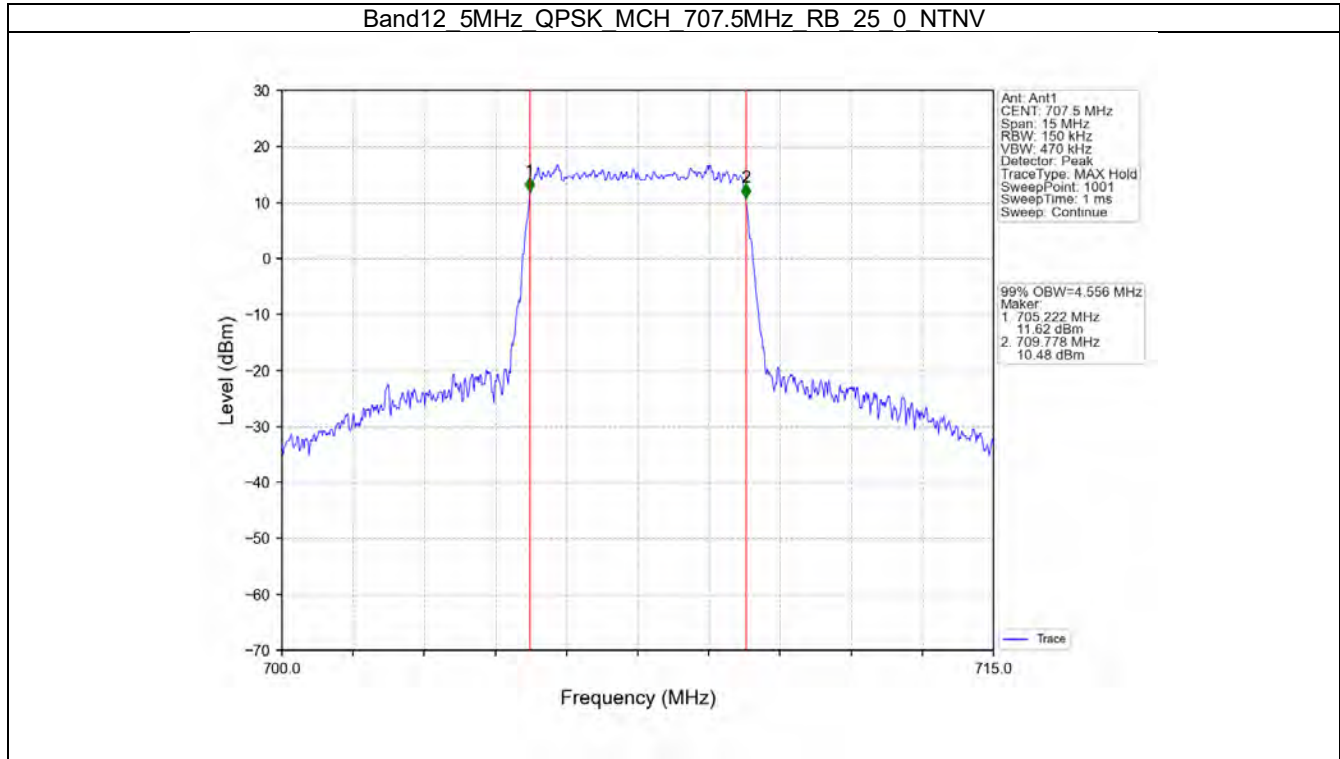
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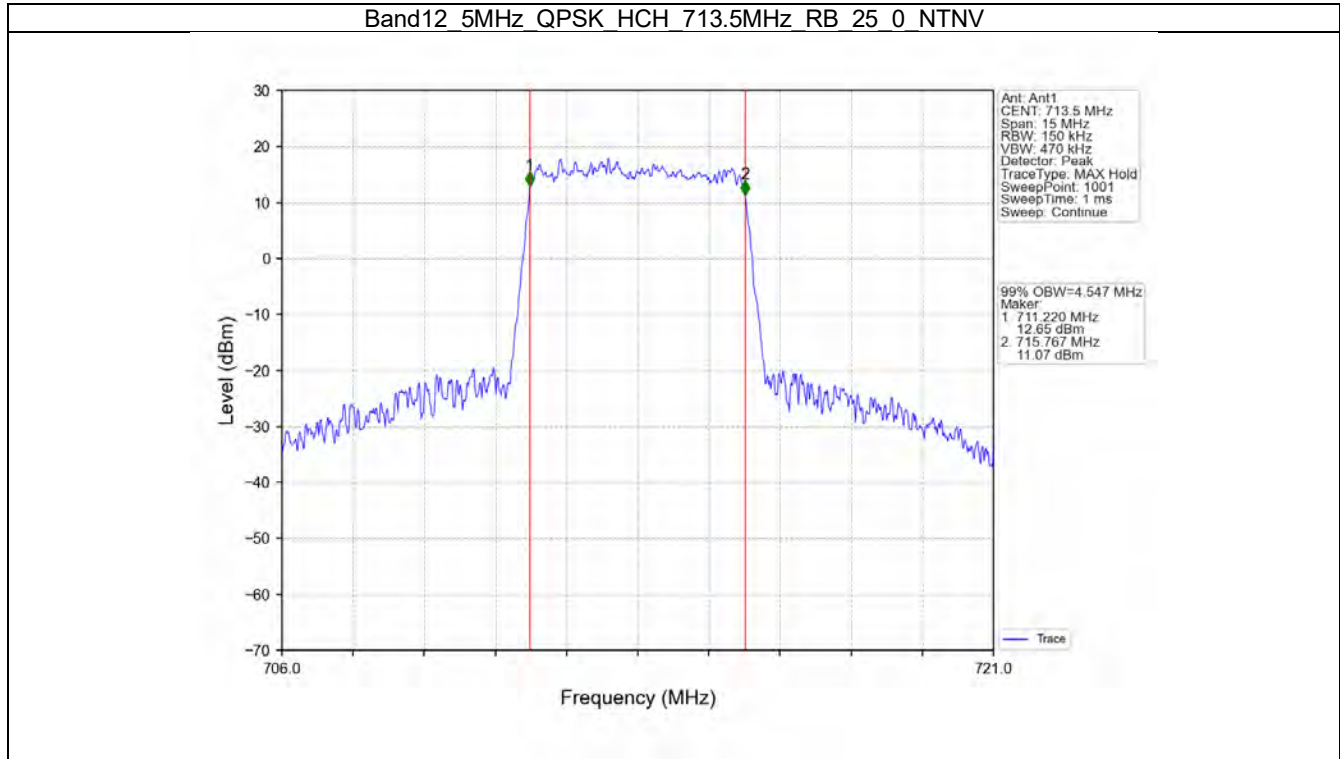
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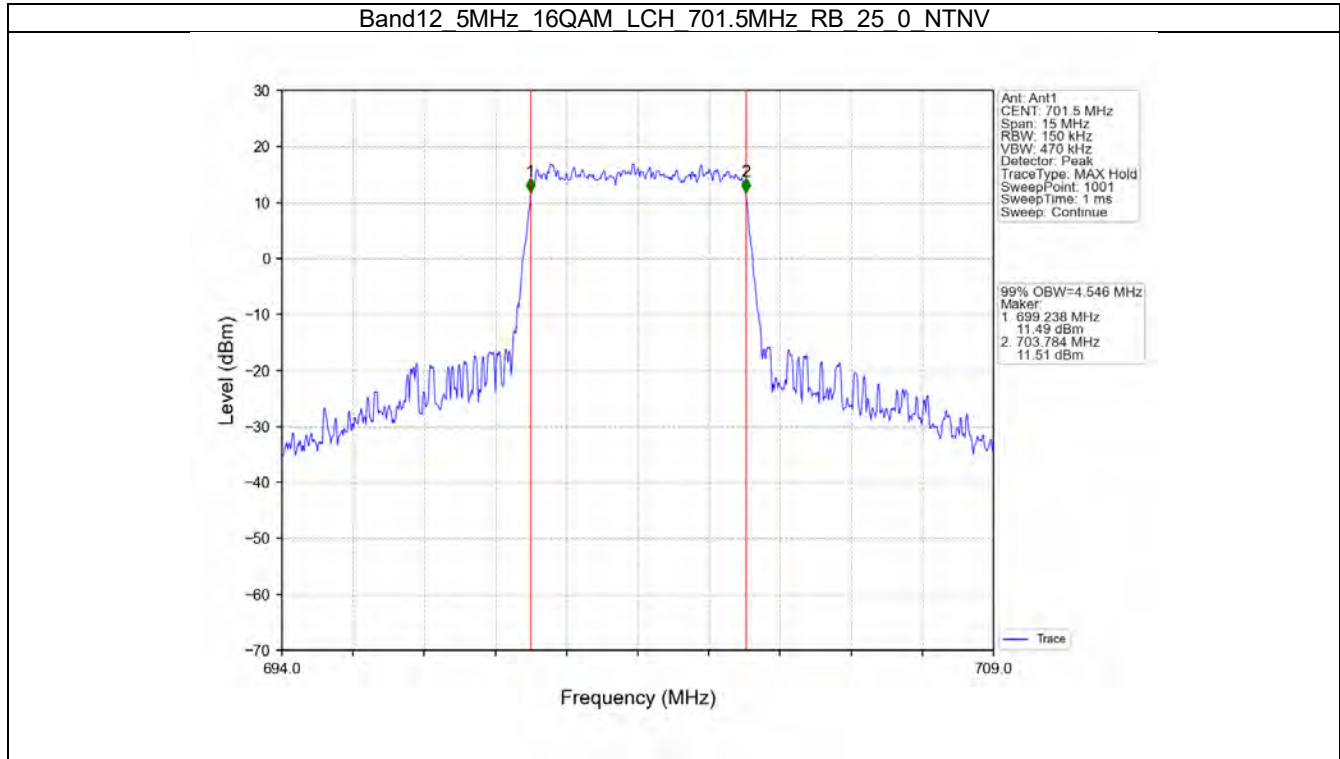
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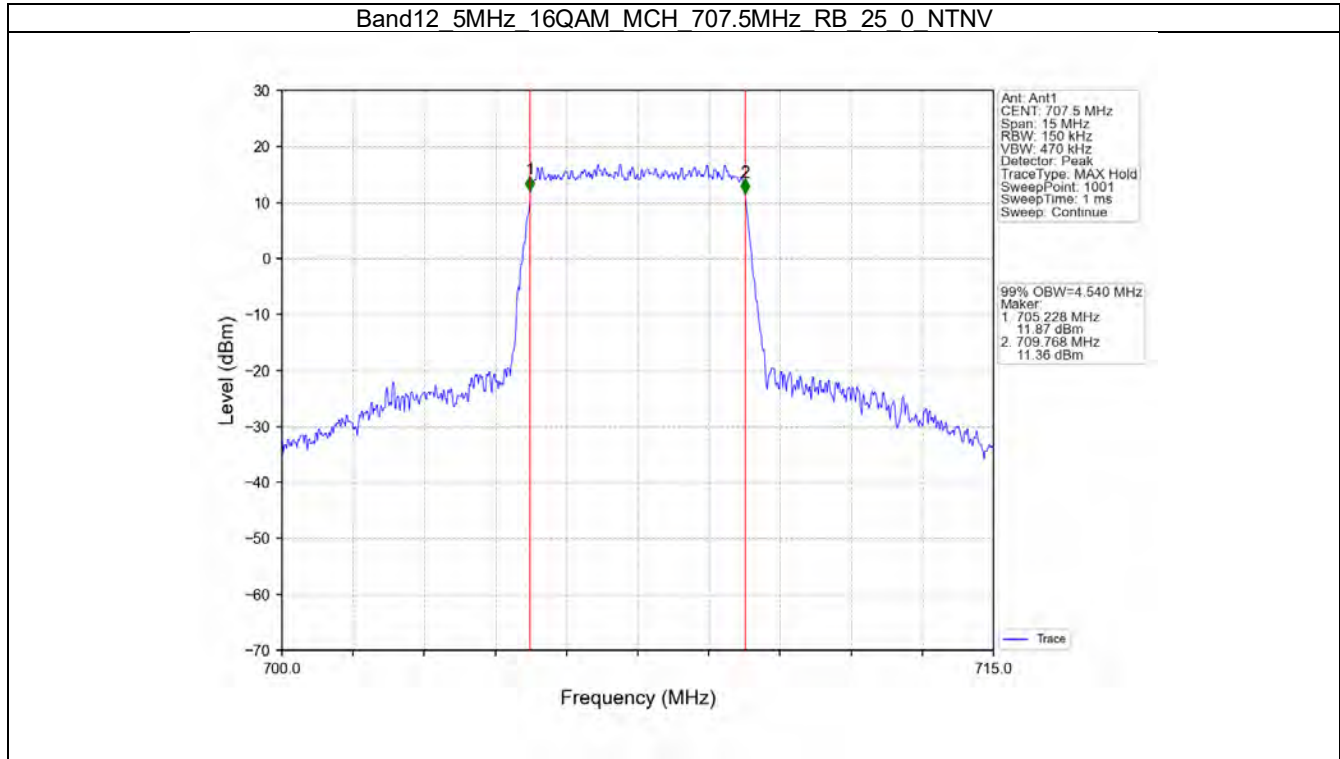
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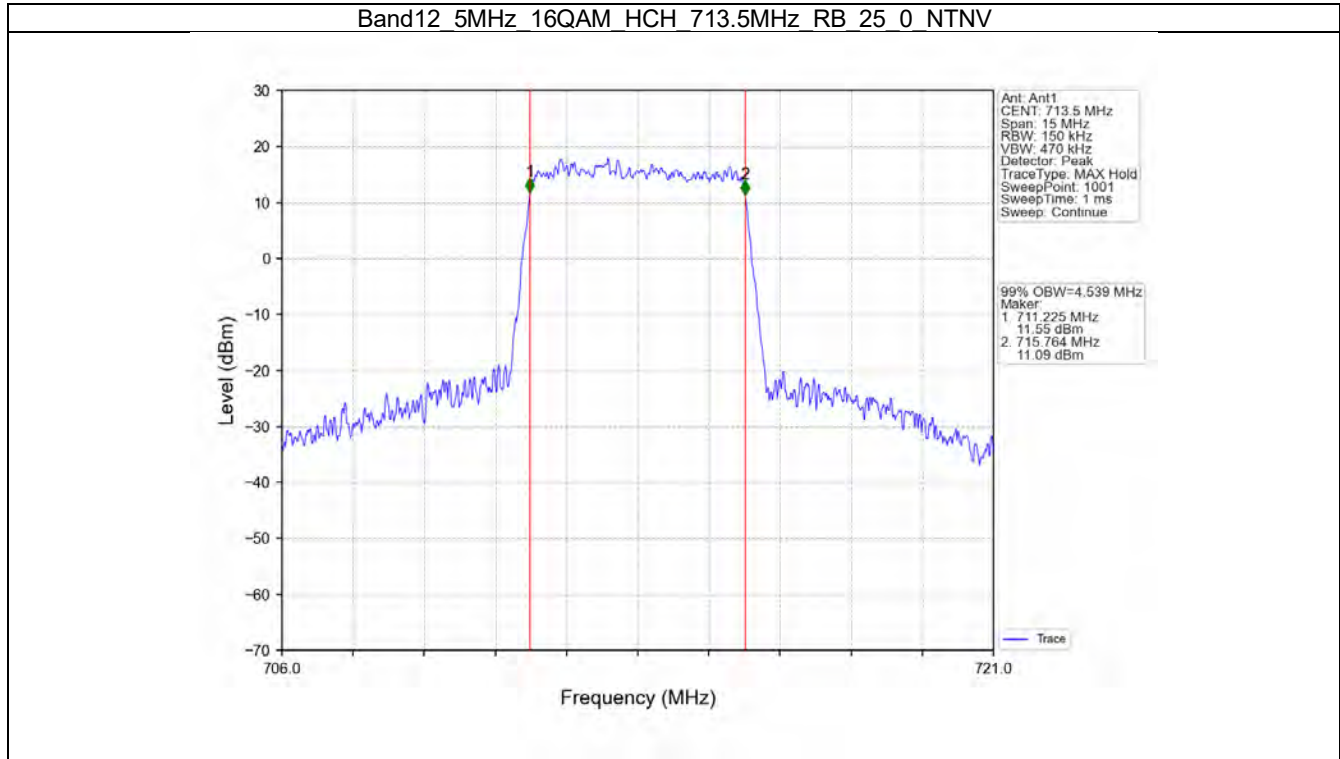
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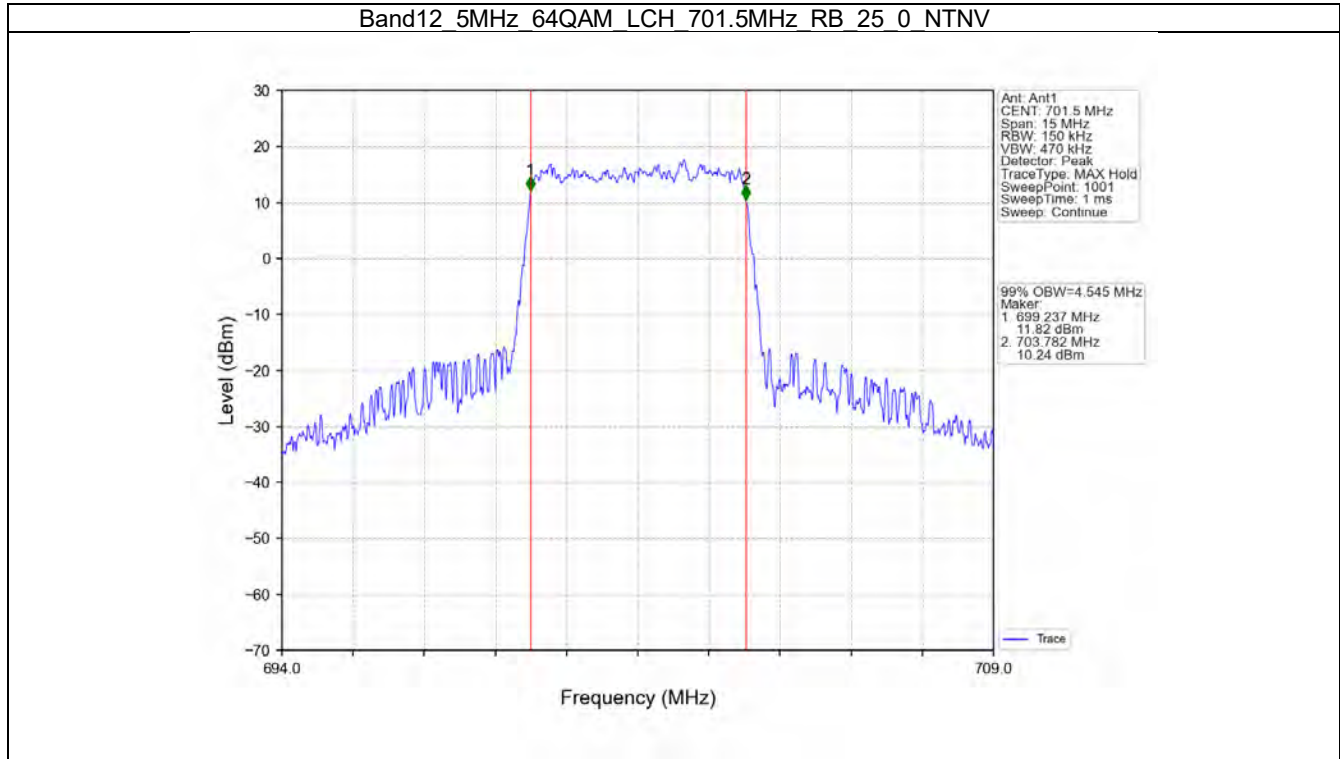
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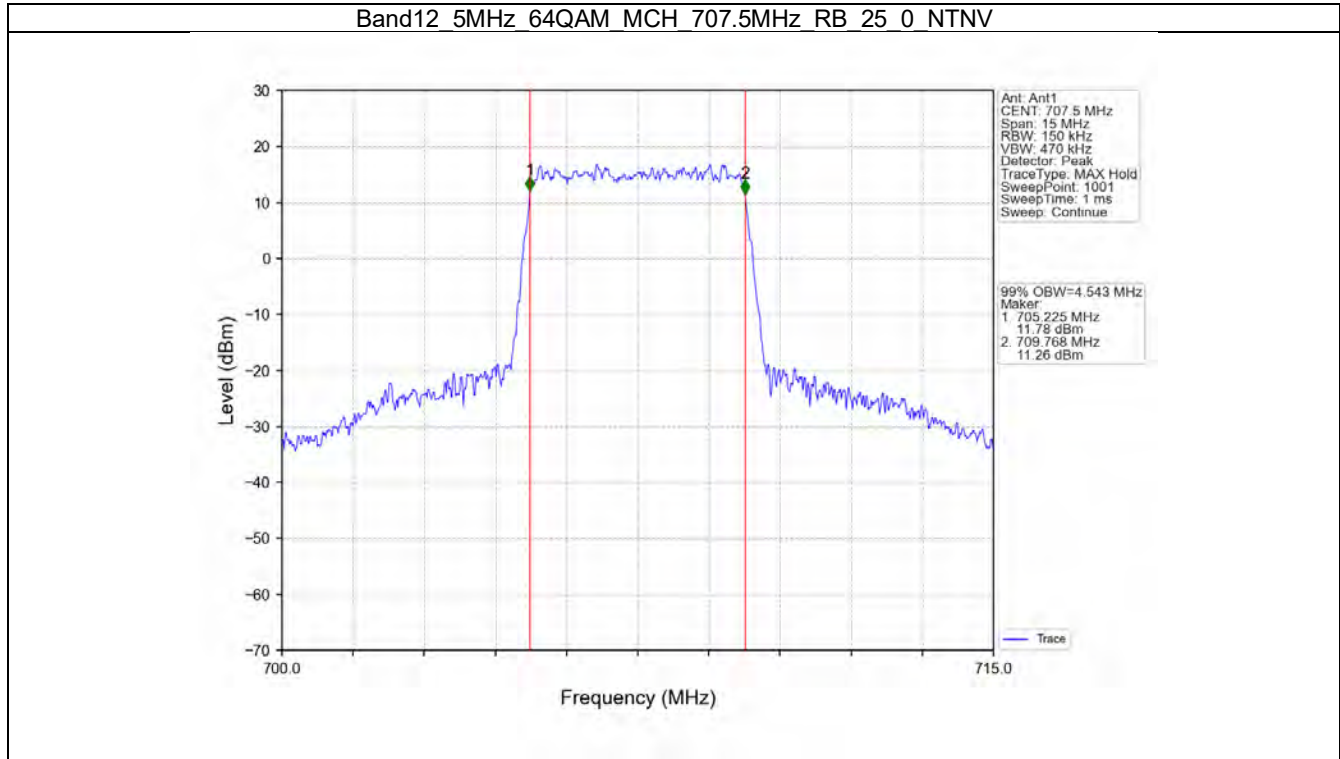
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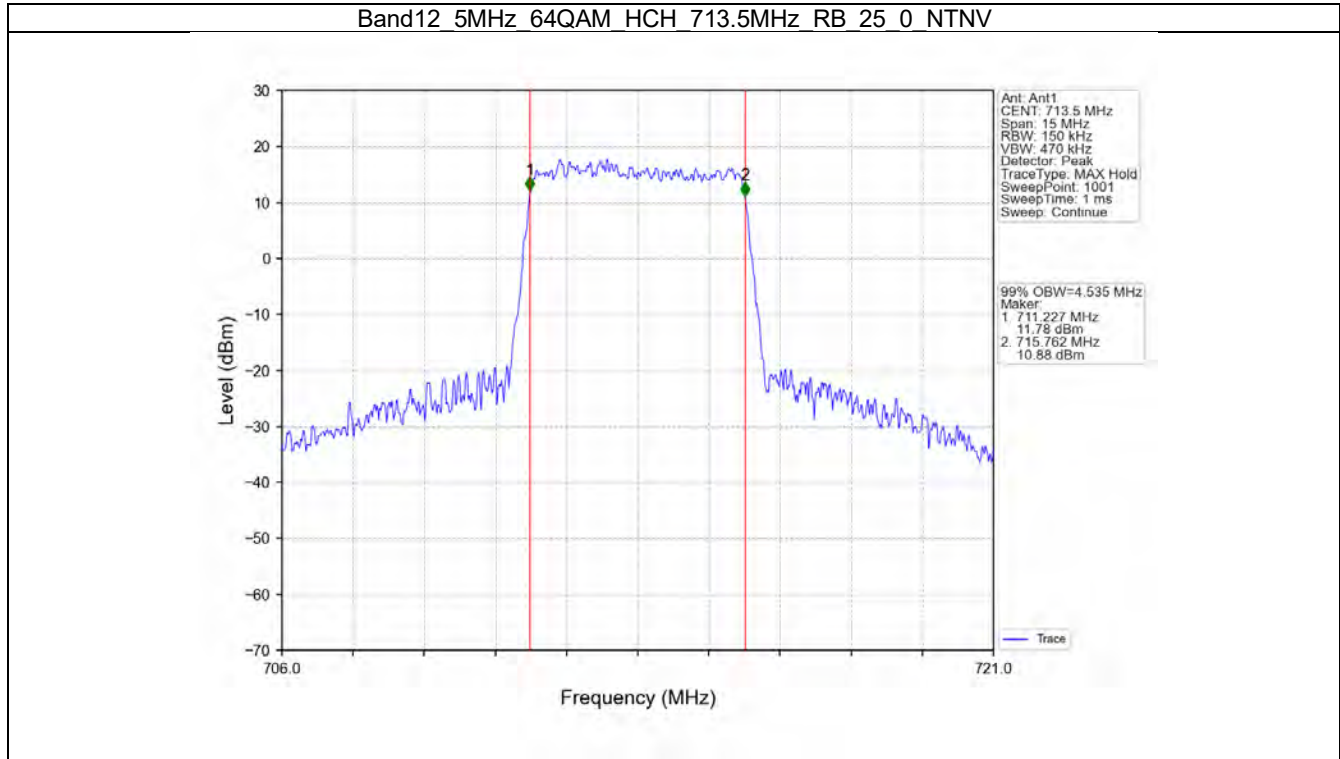


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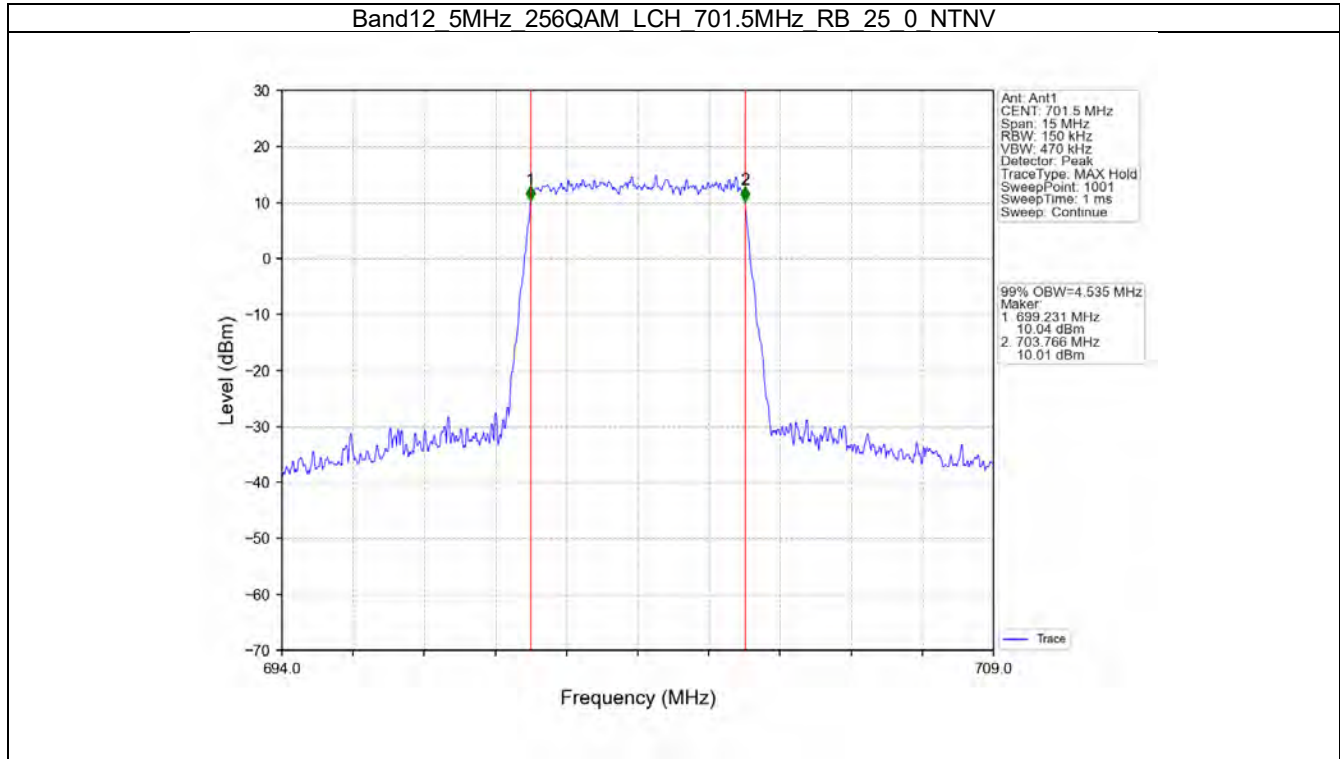
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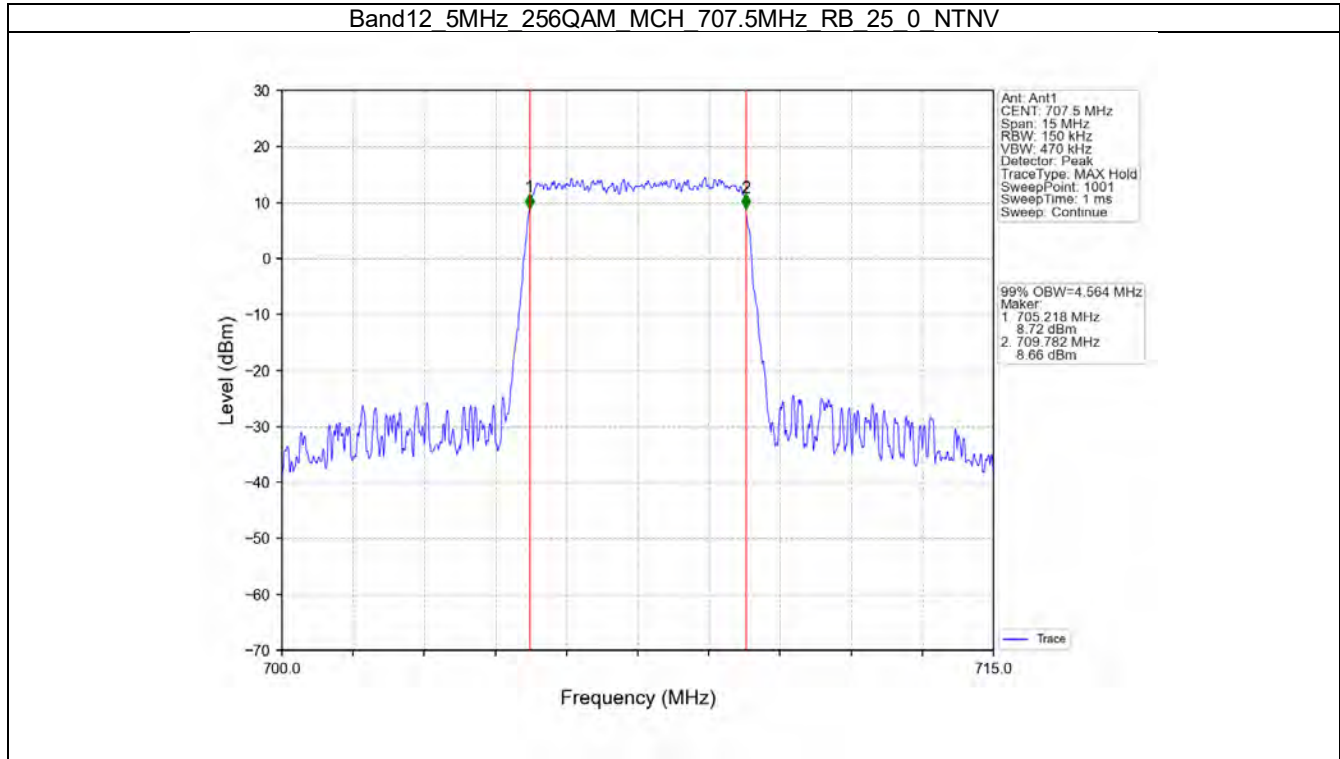
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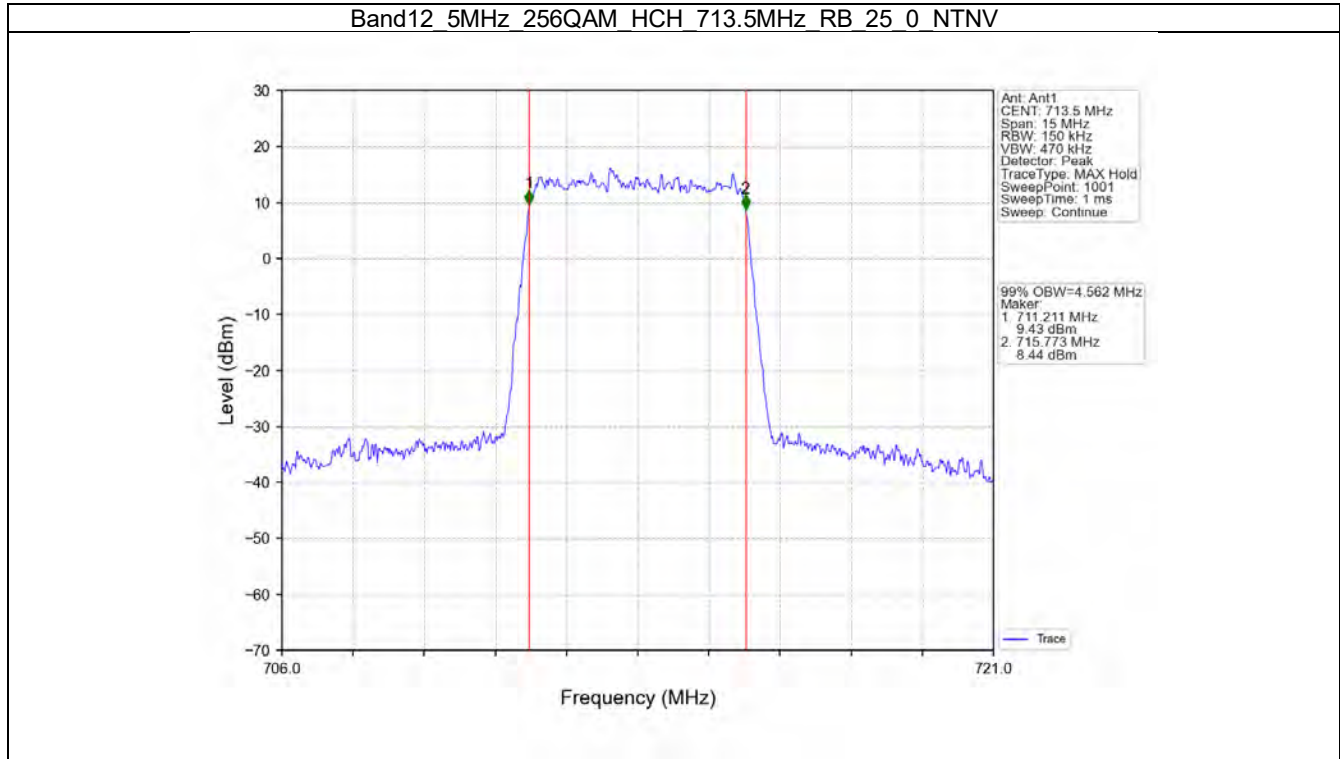
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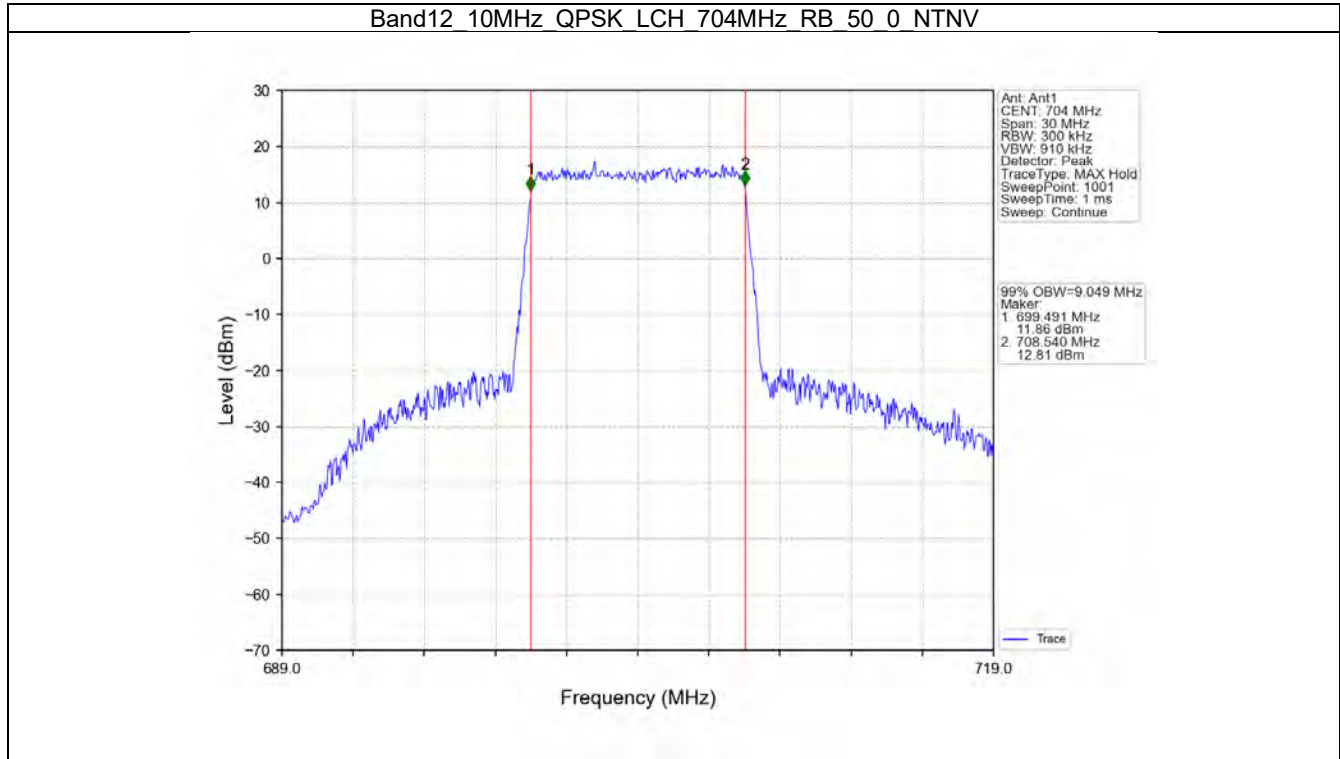
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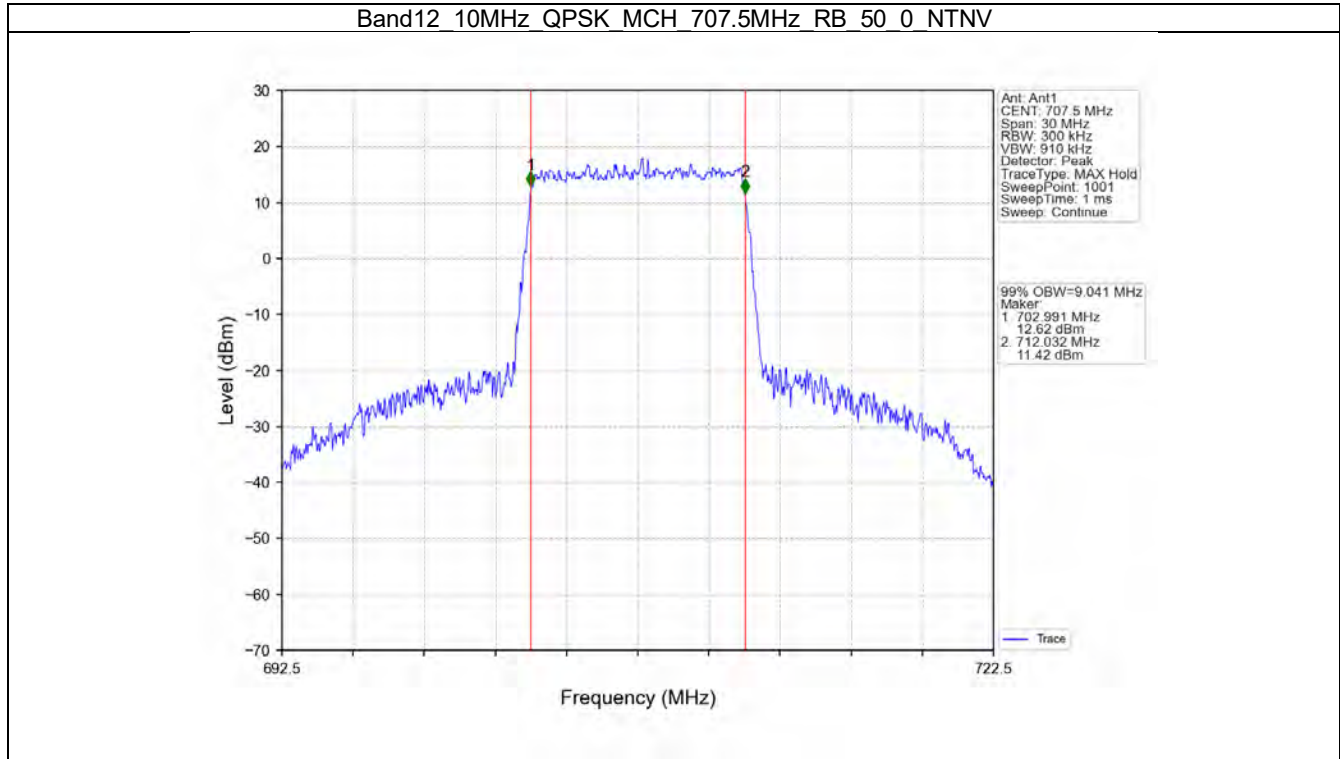
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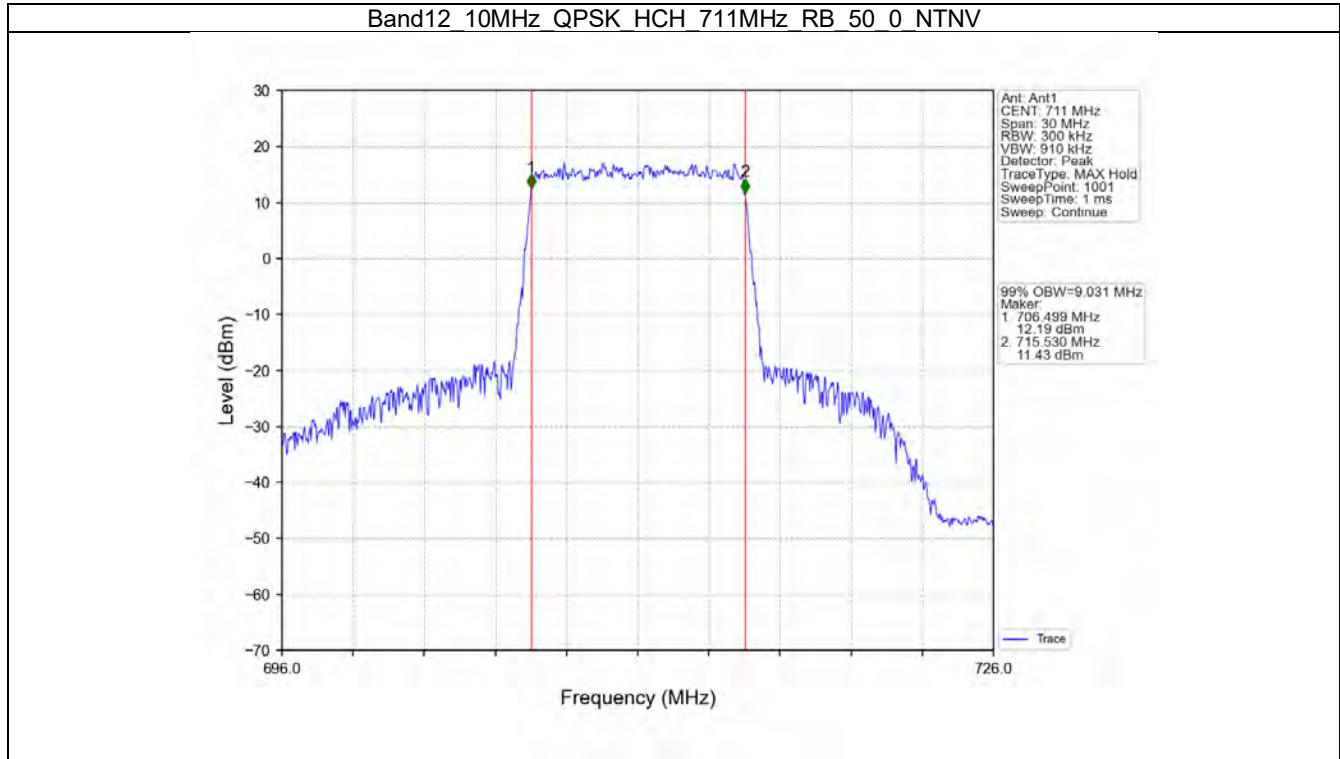
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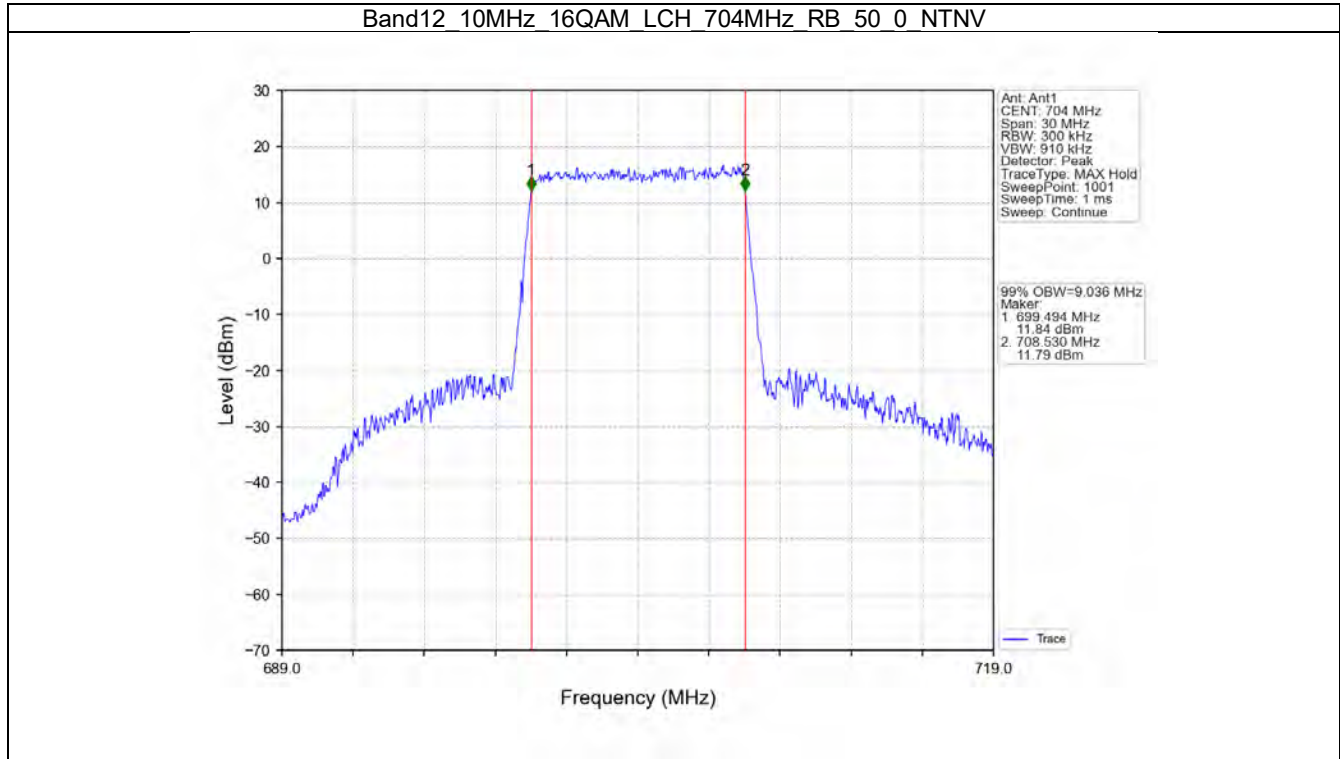
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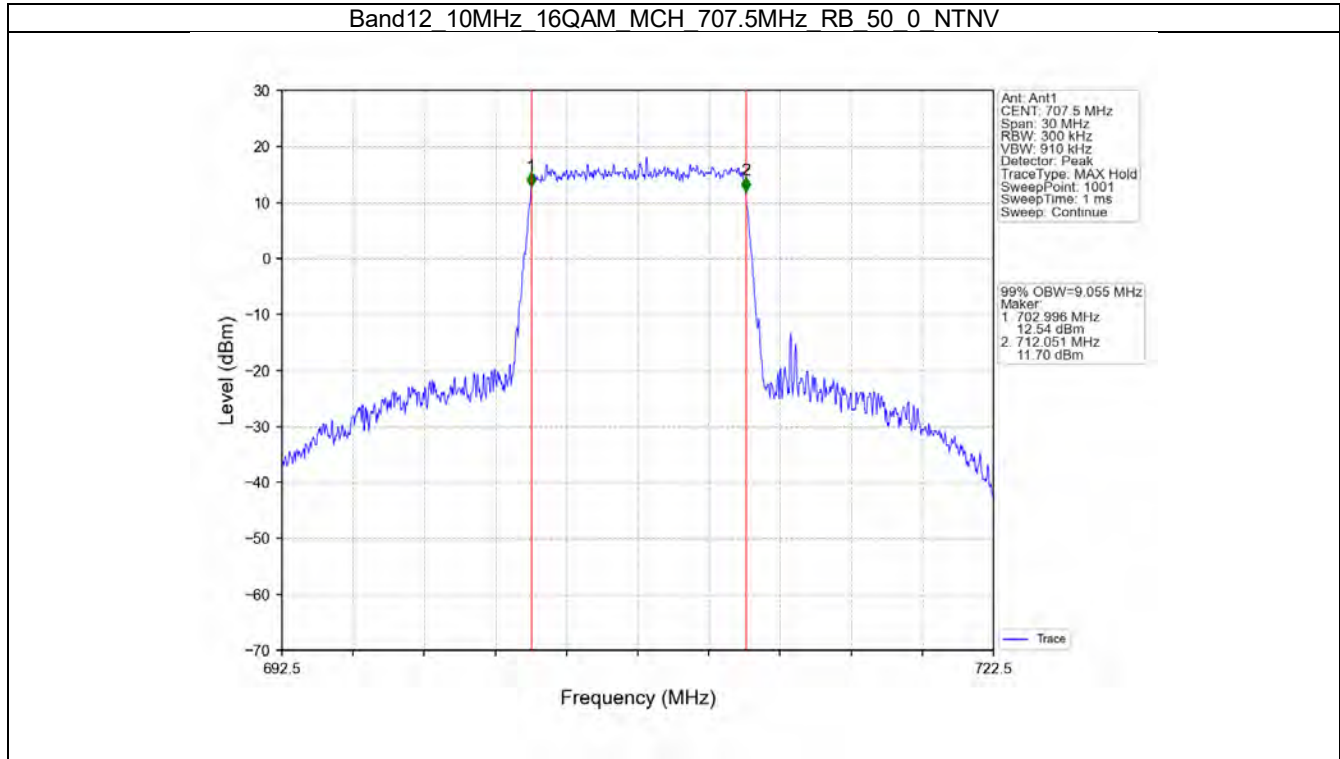
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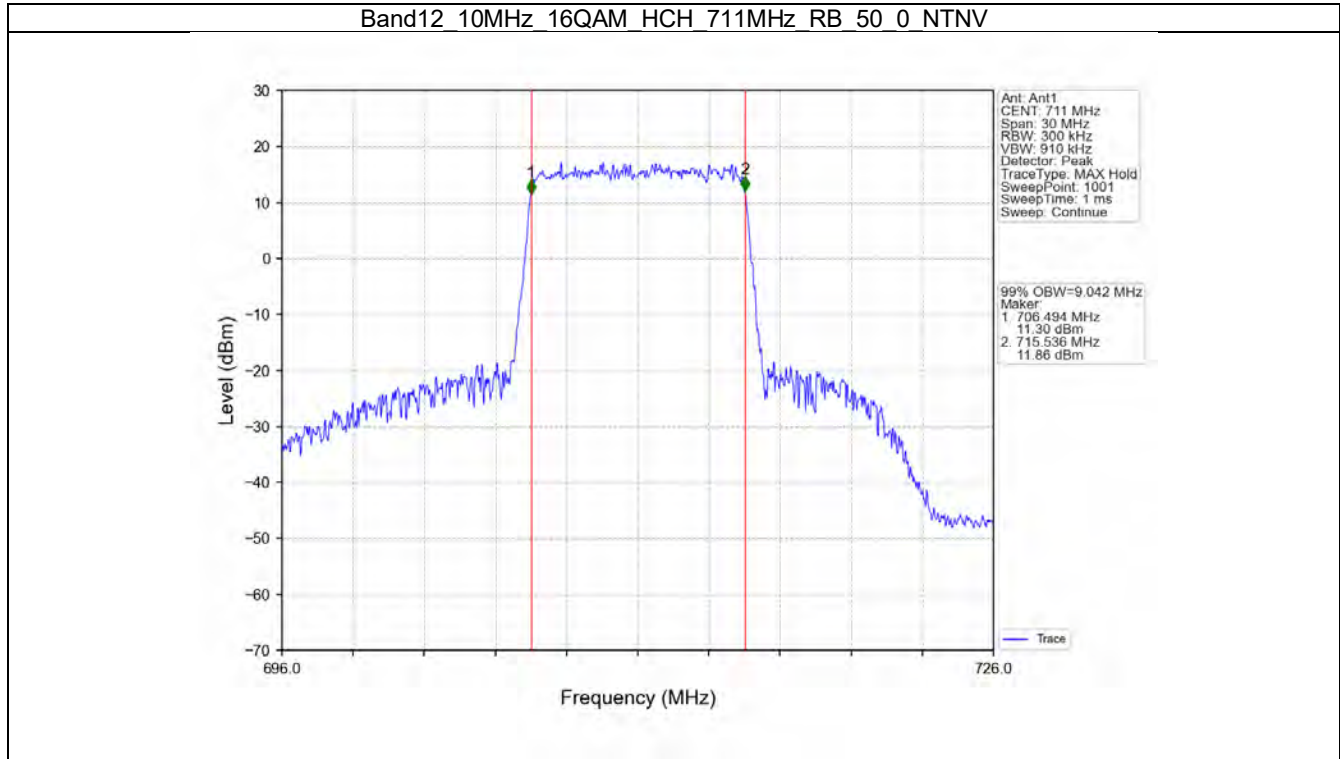
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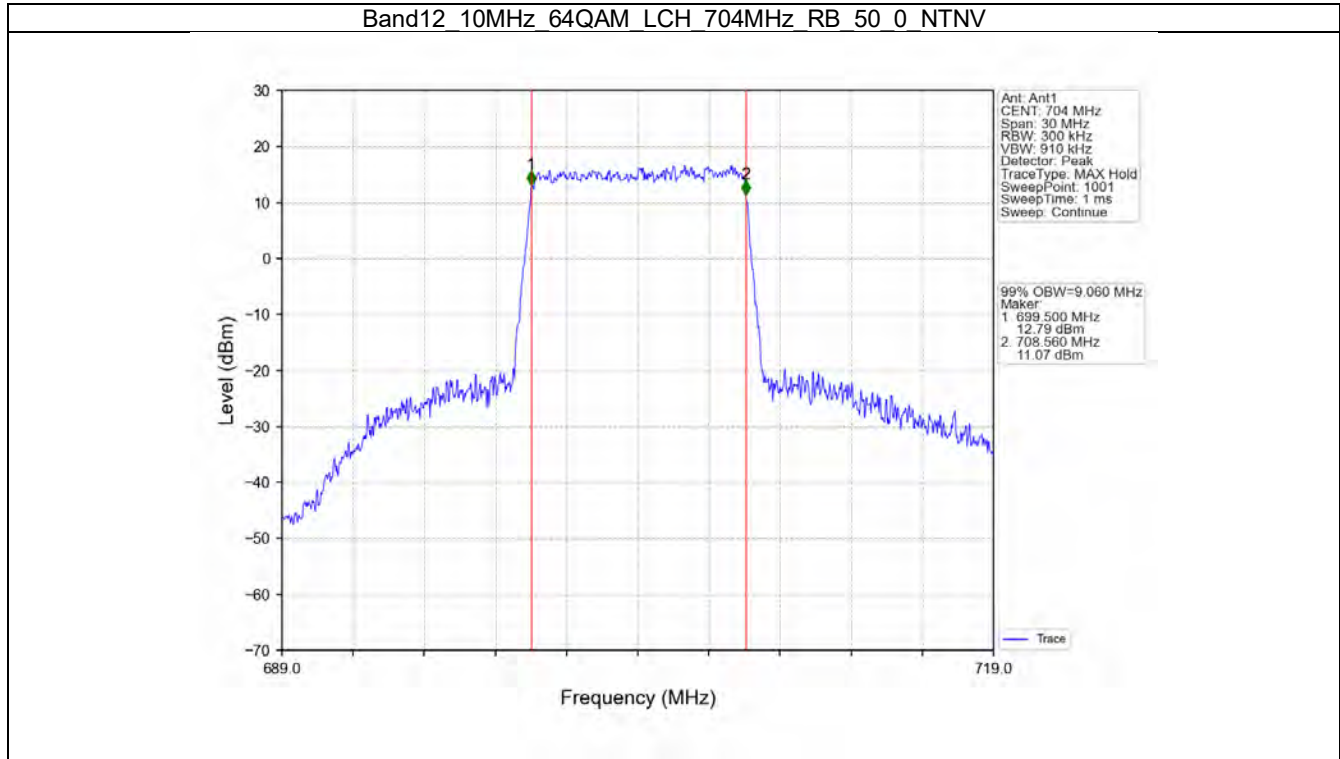
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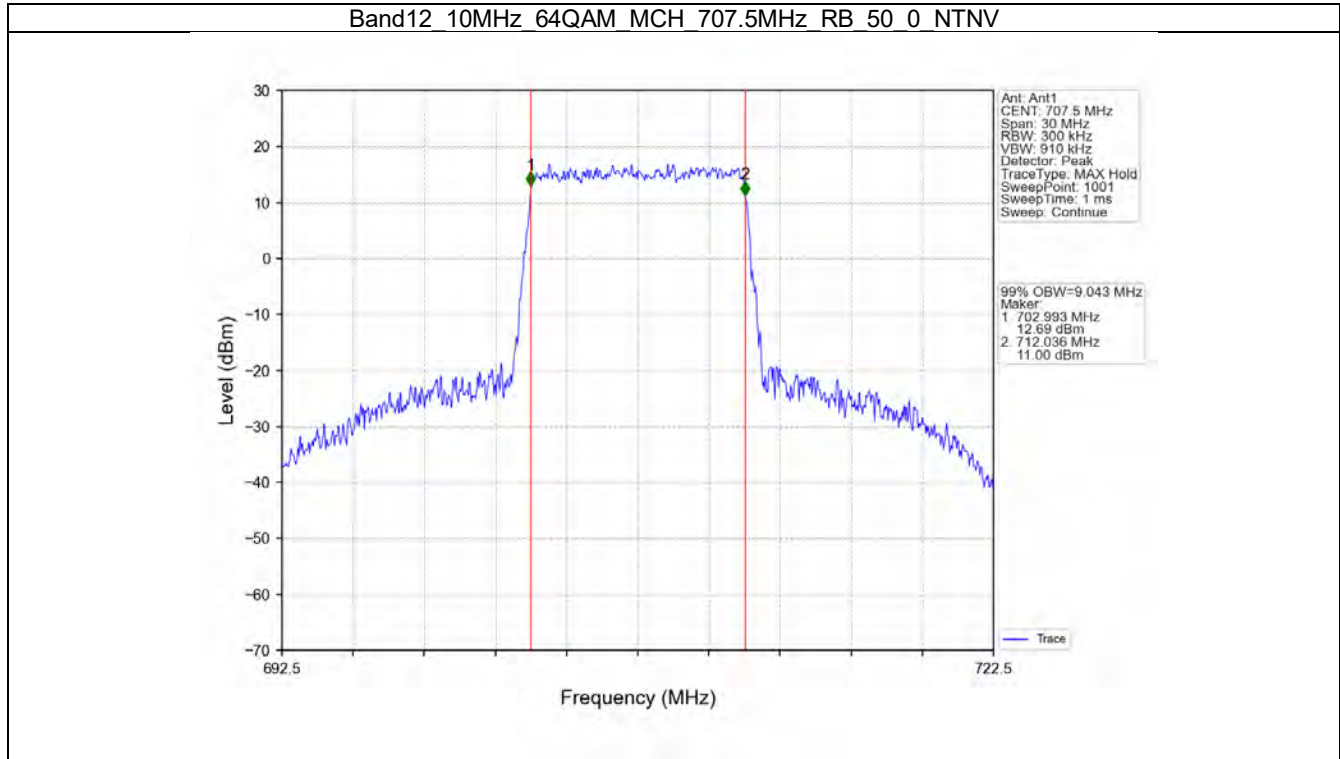
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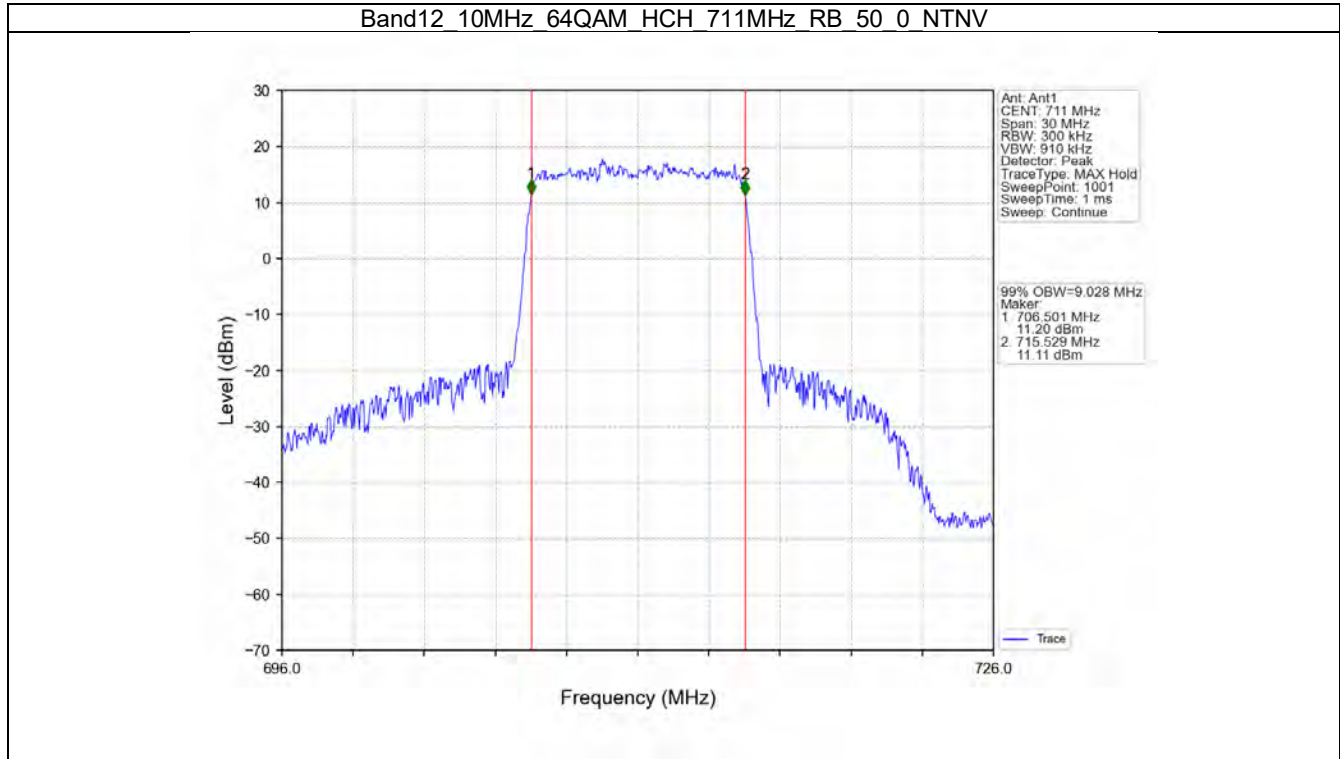
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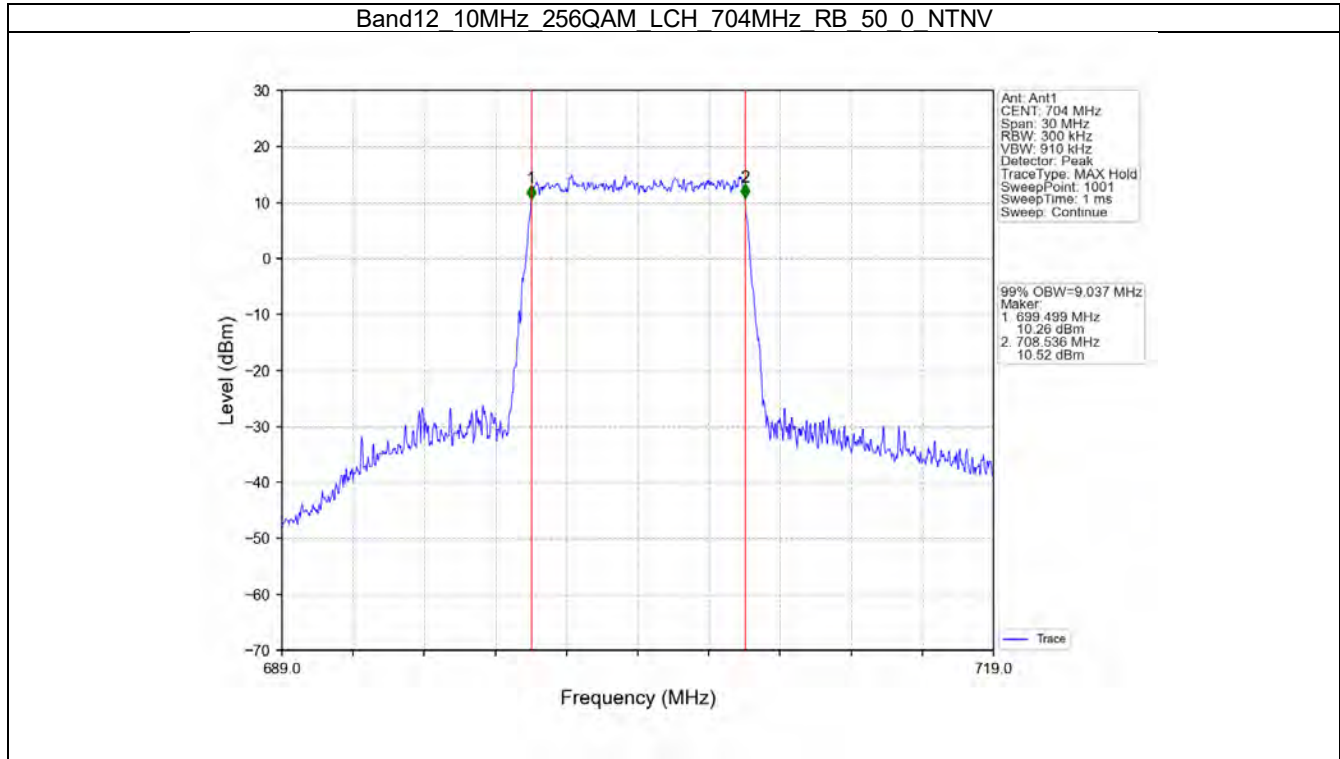
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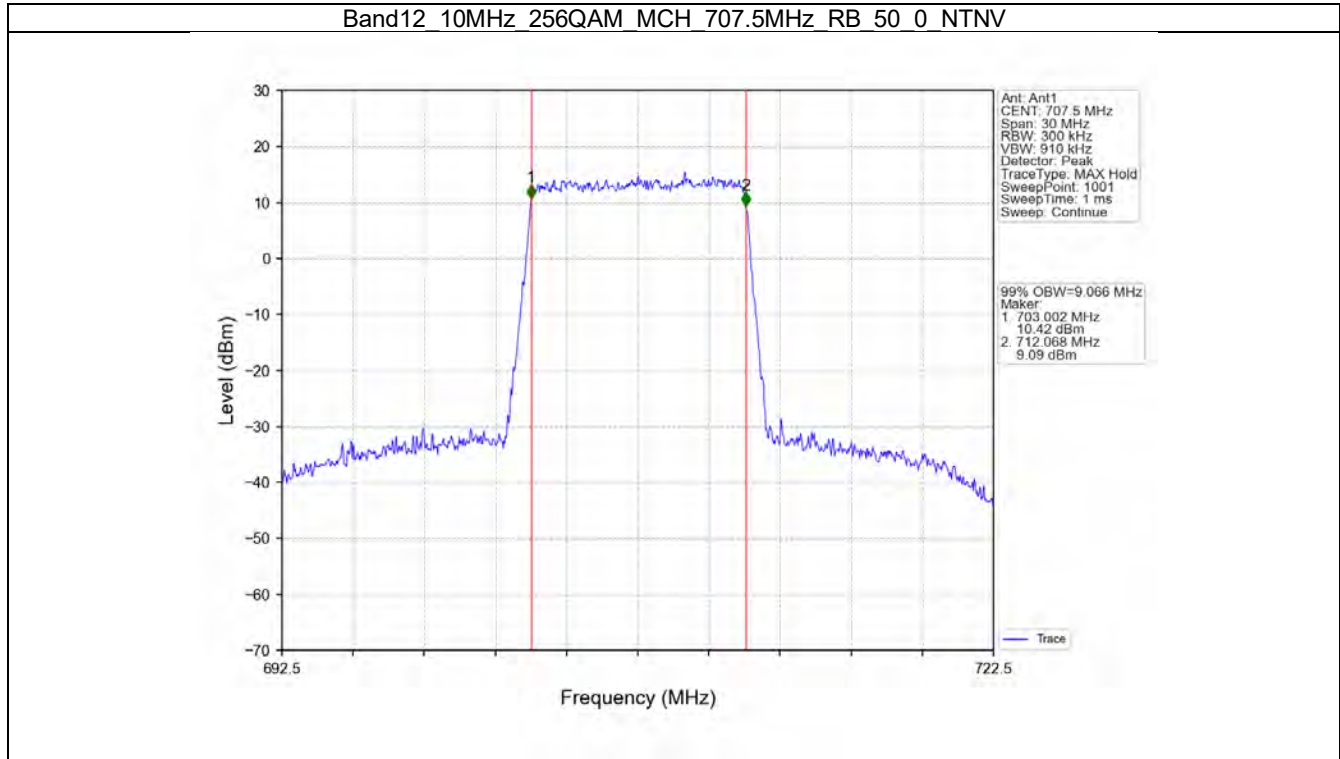


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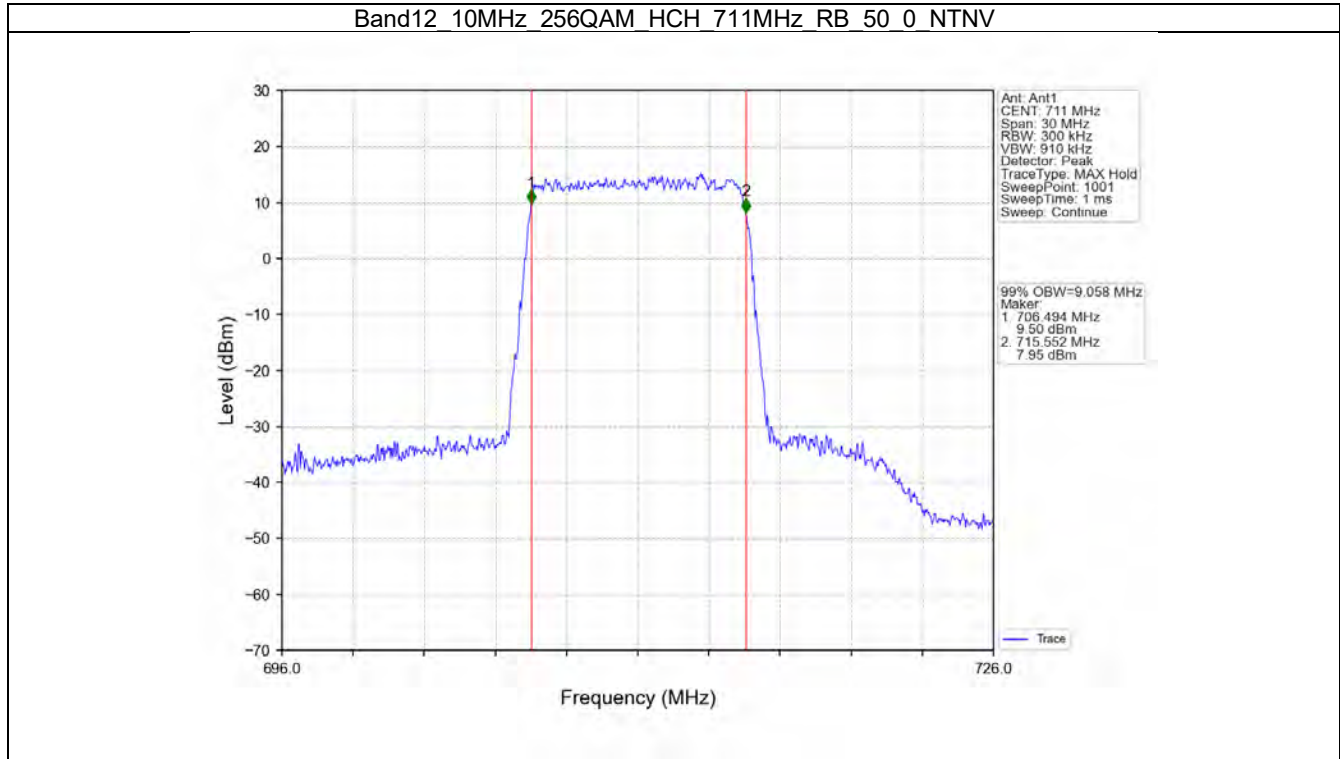
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3.2 Band12_XDB

3.2.1 Test Result

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.312	/	Pass
		707.5	6	0	1.309	/	Pass
		715.3	6	0	1.336	/	Pass
	16QAM	699.7	6	0	1.329	/	Pass
		707.5	6	0	1.318	/	Pass
		715.3	6	0	1.341	/	Pass
	64QAM	699.7	6	0	1.309	/	Pass
		707.5	6	0	1.309	/	Pass
		715.3	6	0	1.326	/	Pass
	256QAM	699.7	6	0	1.328	/	Pass
		707.5	6	0	1.319	/	Pass
		715.3	6	0	1.338	/	Pass
3	QPSK	700.5	15	0	3.018	/	Pass
		707.5	15	0	3.003	/	Pass
		714.5	15	0	3.014	/	Pass
	16QAM	700.5	15	0	3.023	/	Pass
		707.5	15	0	3.014	/	Pass
		714.5	15	0	3.010	/	Pass
	64QAM	700.5	15	0	3.035	/	Pass
		707.5	15	0	3.012	/	Pass
		714.5	15	0	3.026	/	Pass
	256QAM	700.5	15	0	3.057	/	Pass
		707.5	15	0	3.012	/	Pass
		714.5	15	0	3.023	/	Pass
5	QPSK	701.5	25	0	5.068	/	Pass
		707.5	25	0	5.085	/	Pass
		713.5	25	0	5.040	/	Pass
	16QAM	701.5	25	0	5.061	/	Pass
		707.5	25	0	5.090	/	Pass
		713.5	25	0	5.021	/	Pass
	64QAM	701.5	25	0	5.064	/	Pass
		707.5	25	0	5.088	/	Pass
		713.5	25	0	5.029	/	Pass
	256QAM	701.5	25	0	5.022	/	Pass
		707.5	25	0	5.057	/	Pass
		713.5	25	0	5.021	/	Pass
10	QPSK	704	50	0	9.947	/	Pass
		707.5	50	0	9.949	/	Pass
		711	50	0	10.037	/	Pass
	16QAM	704	50	0	9.991	/	Pass



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	64QAM	707.5	50	0	9.948	/	Pass
		711	50	0	9.995	/	Pass
		704	50	0	10.001	/	Pass
		707.5	50	0	10.025	/	Pass
		711	50	0	9.904	/	Pass
	256QAM	704	50	0	10.003	/	Pass
		707.5	50	0	9.964	/	Pass
		711	50	0	10.020	/	Pass



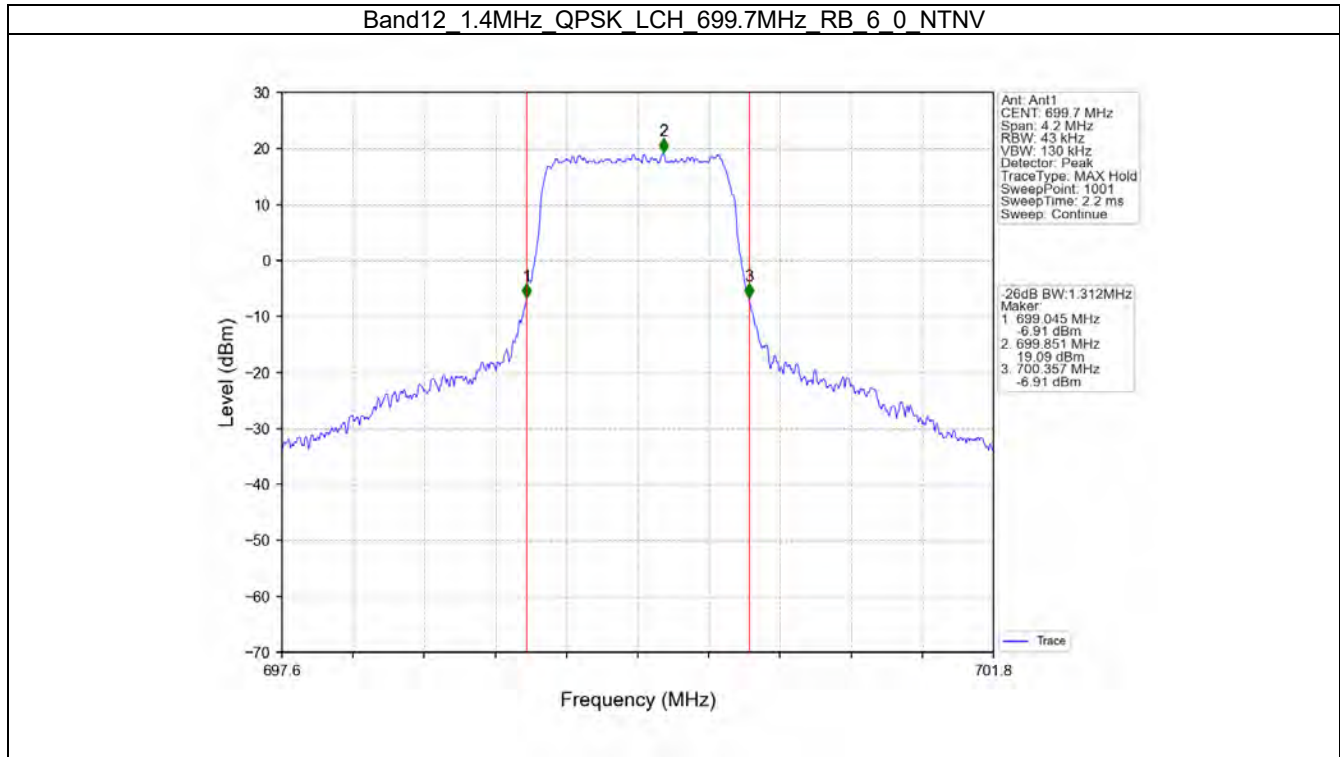
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3.2.2 Test Graph



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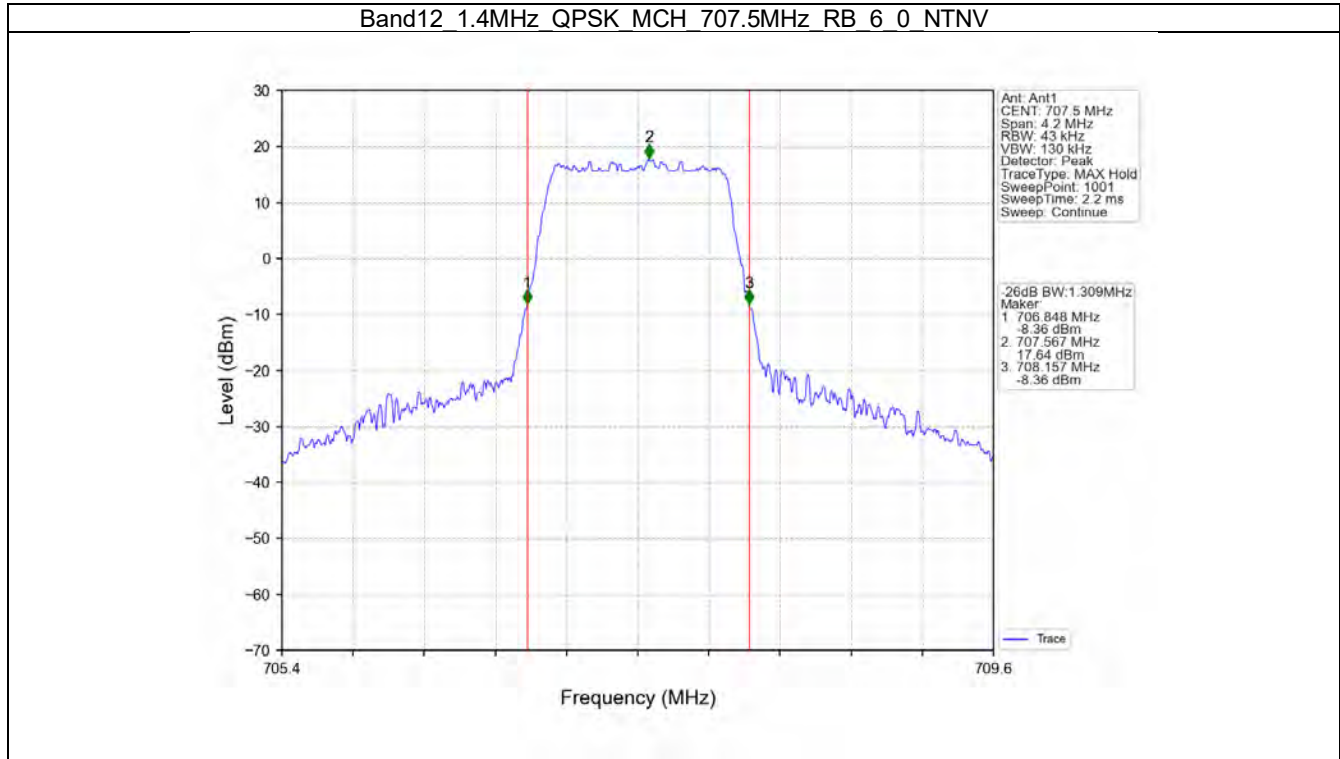
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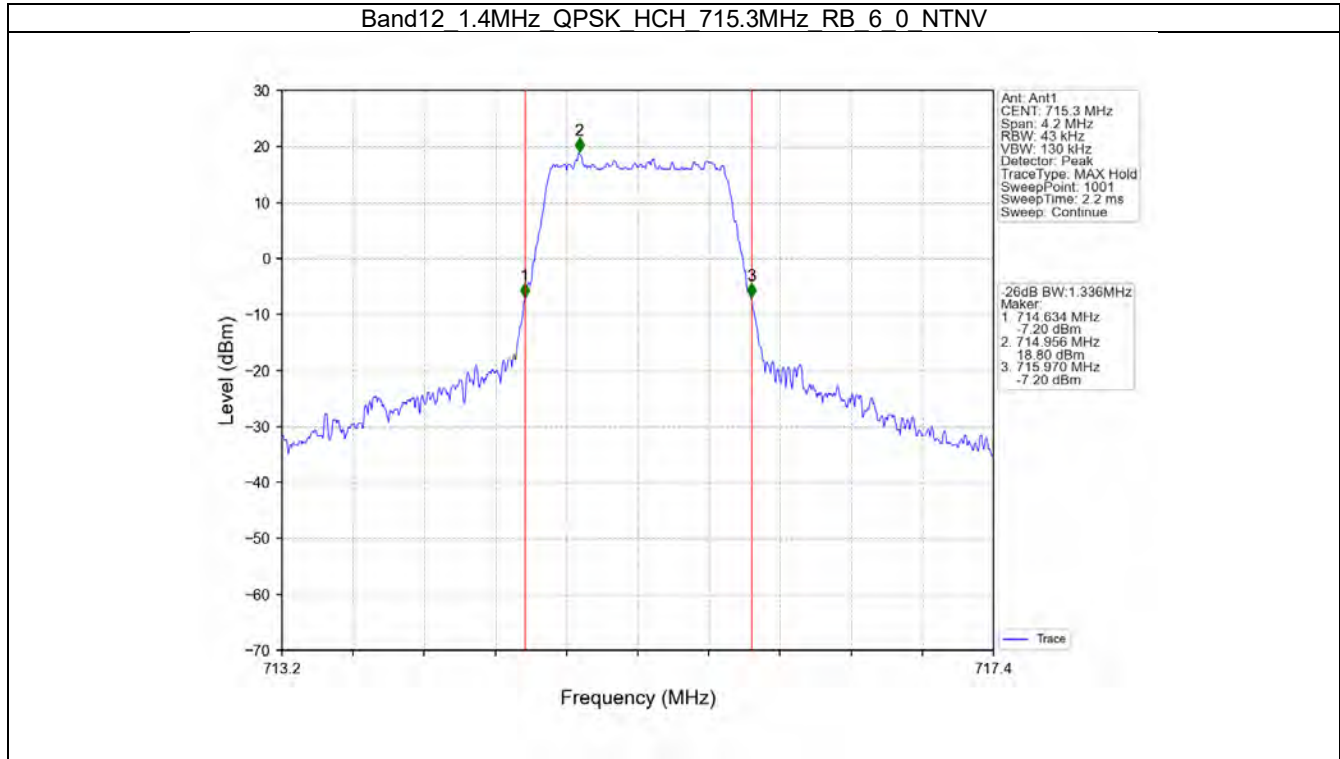
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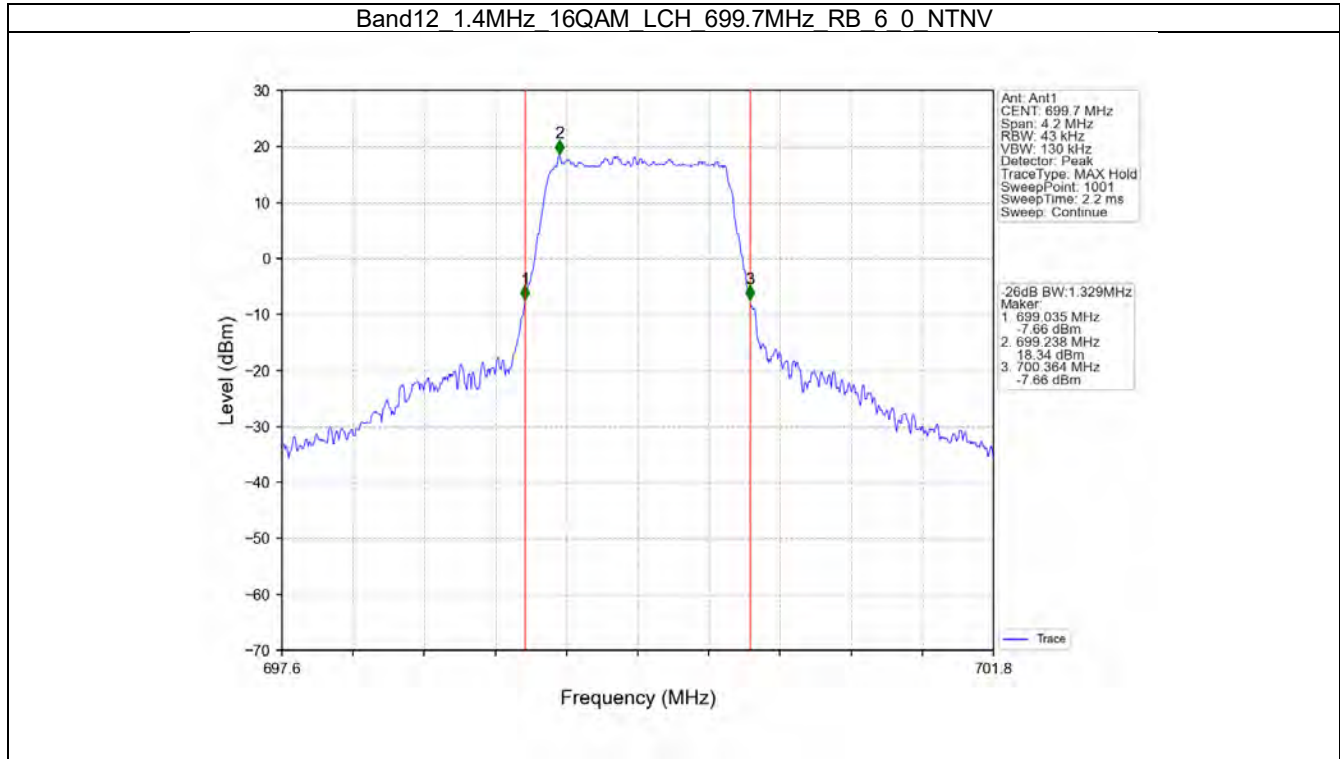
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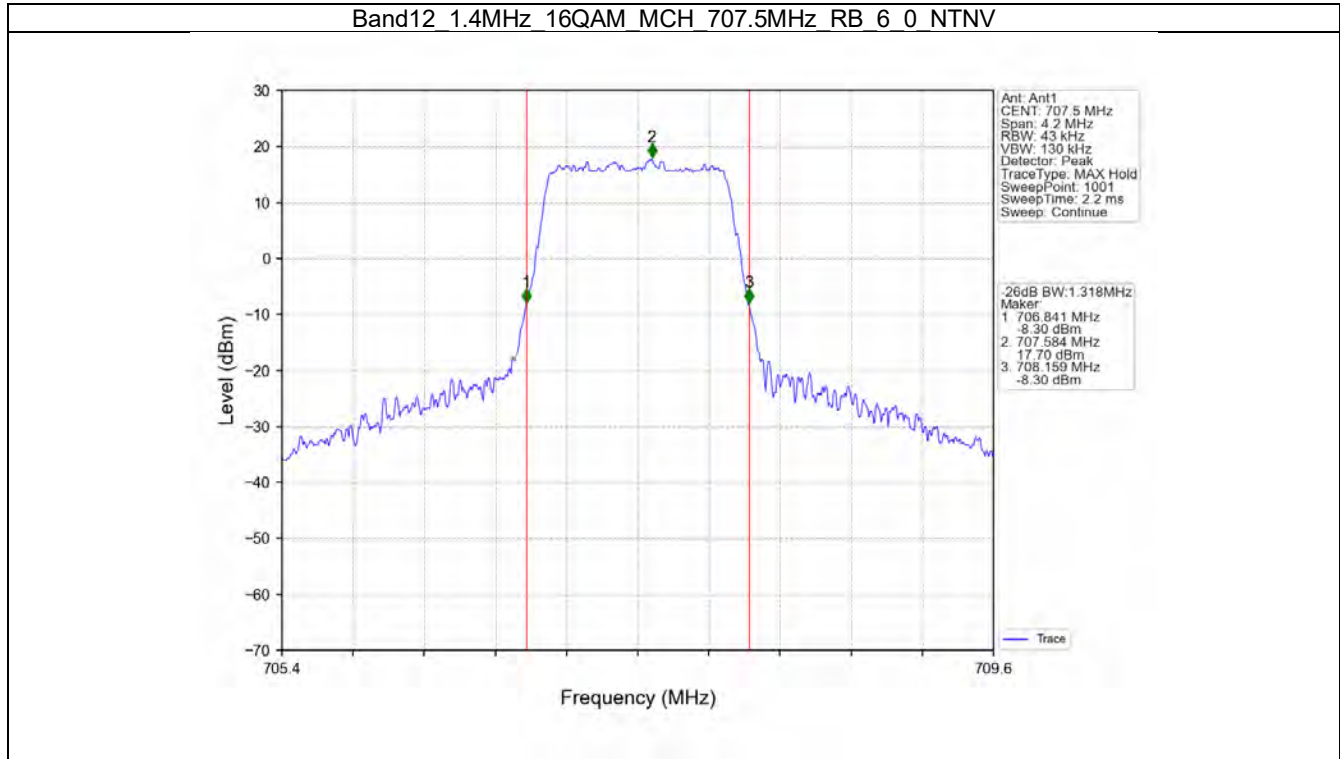
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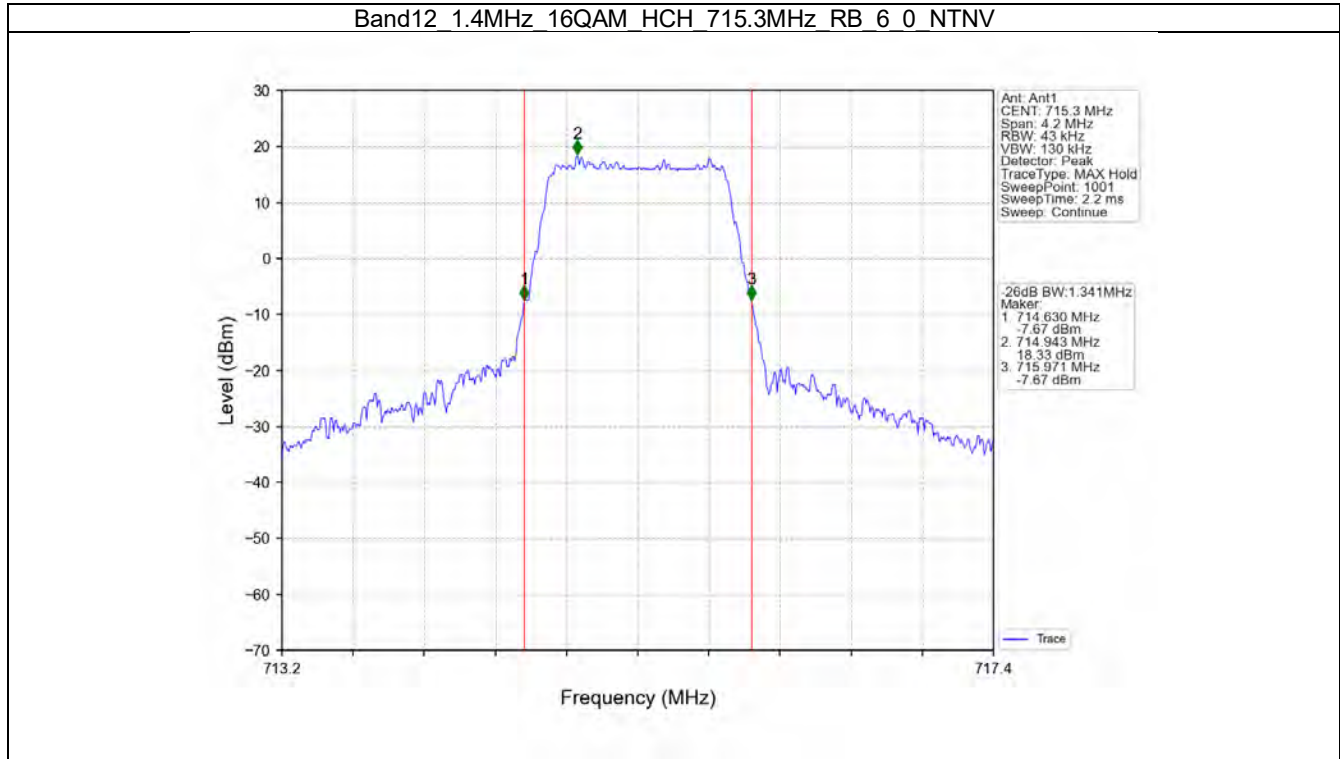
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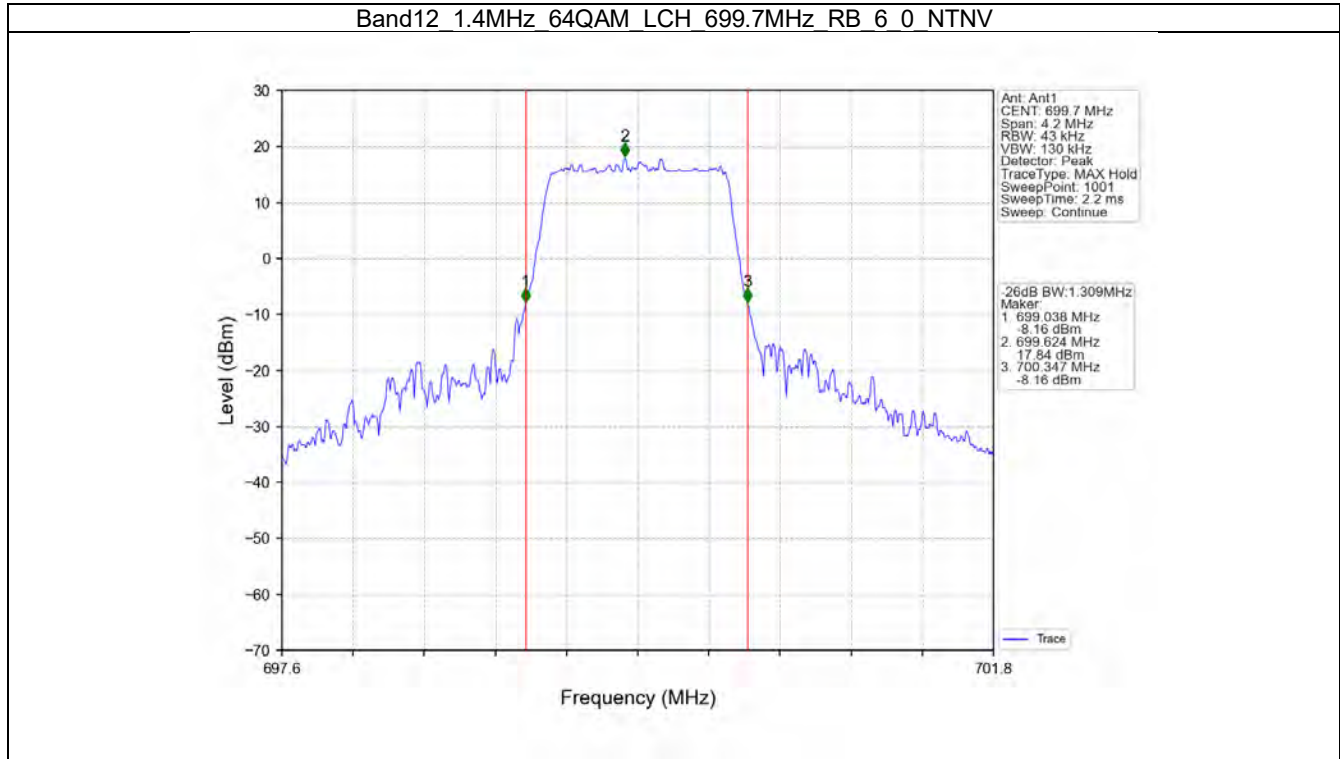
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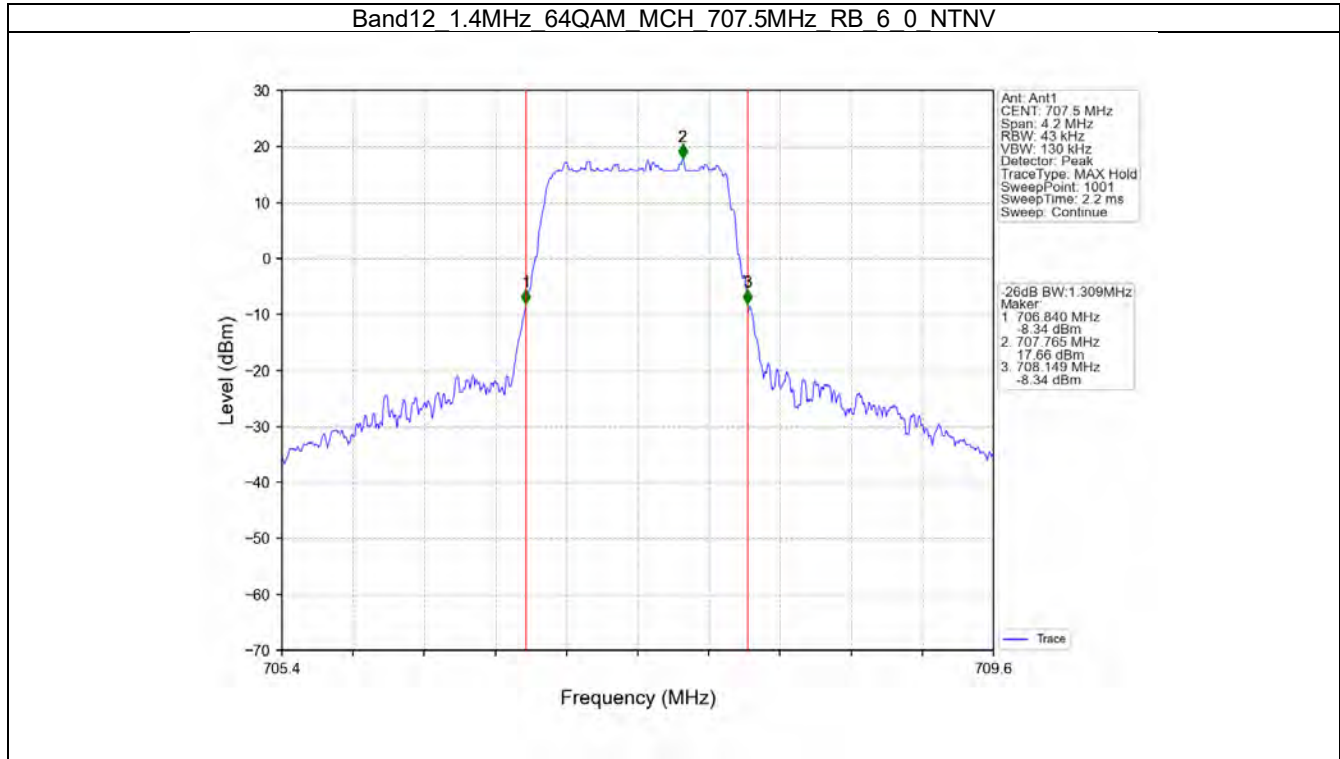


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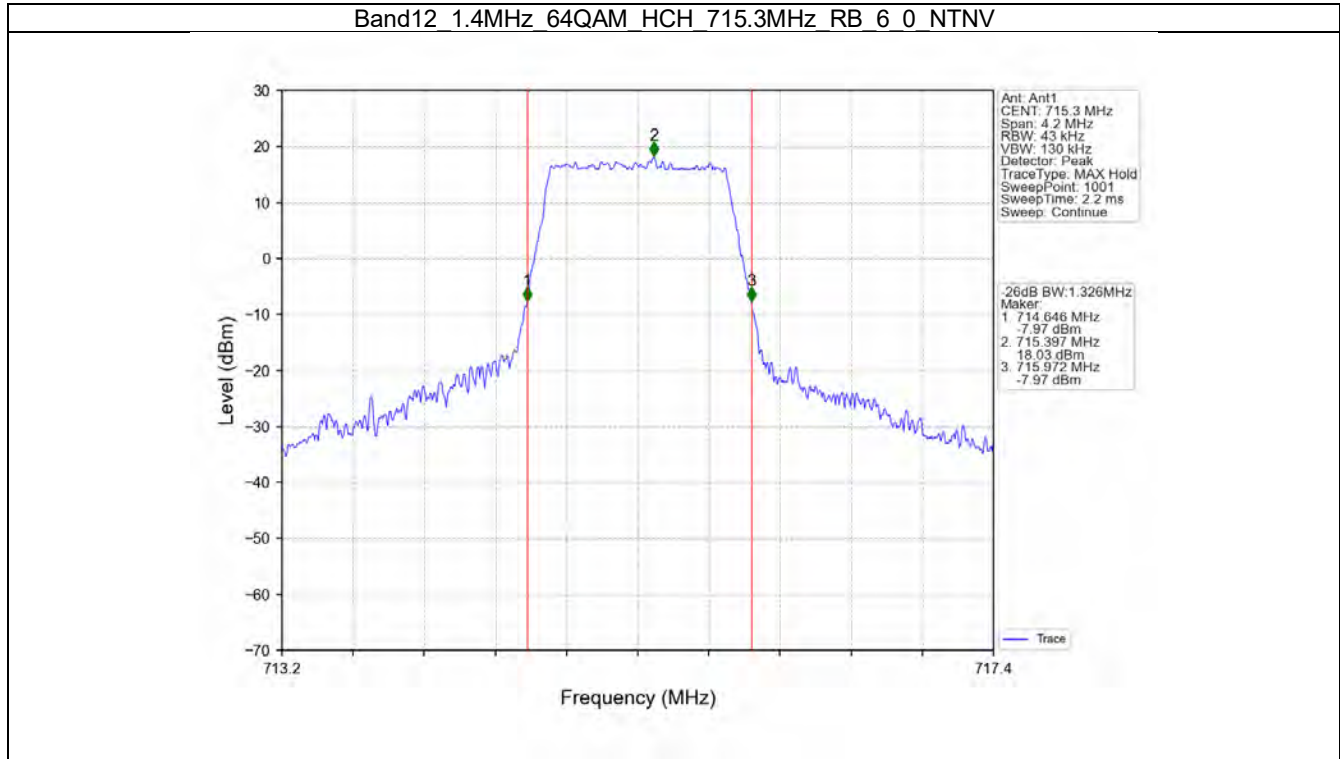
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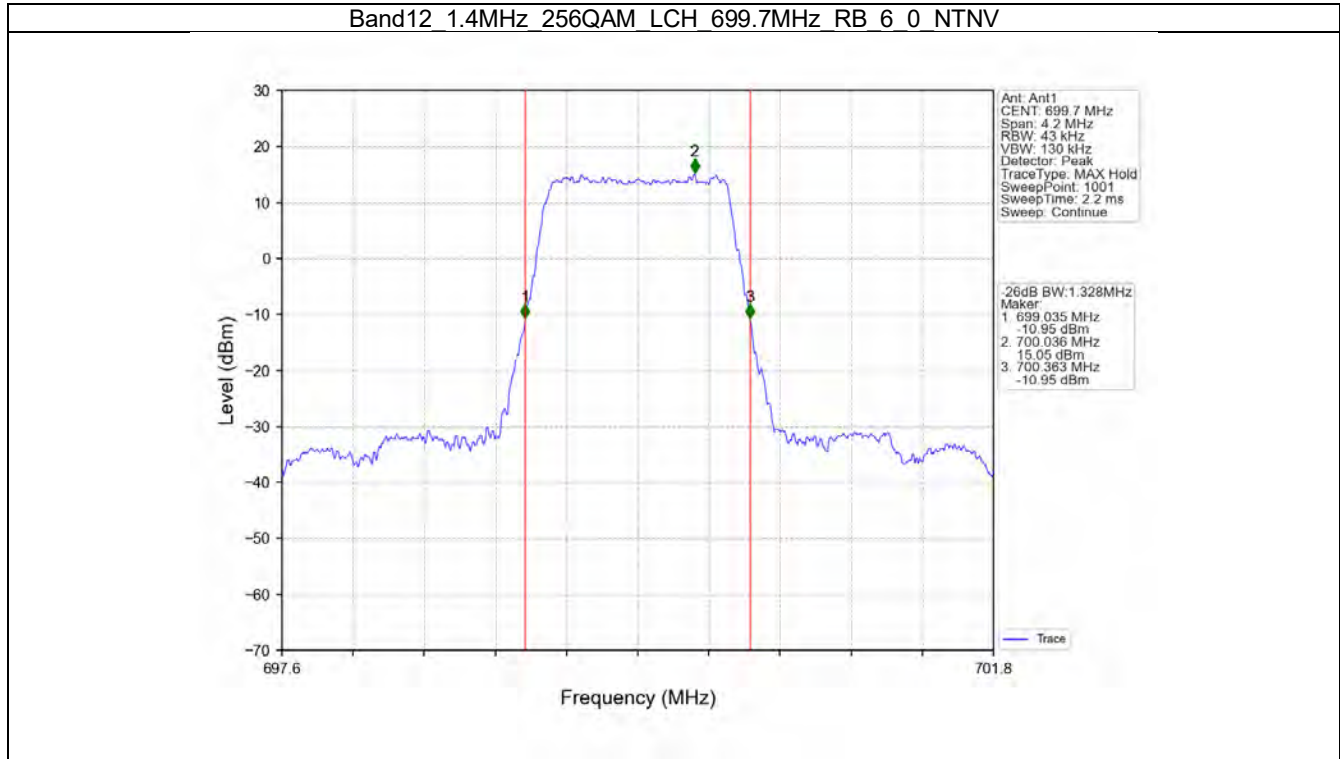
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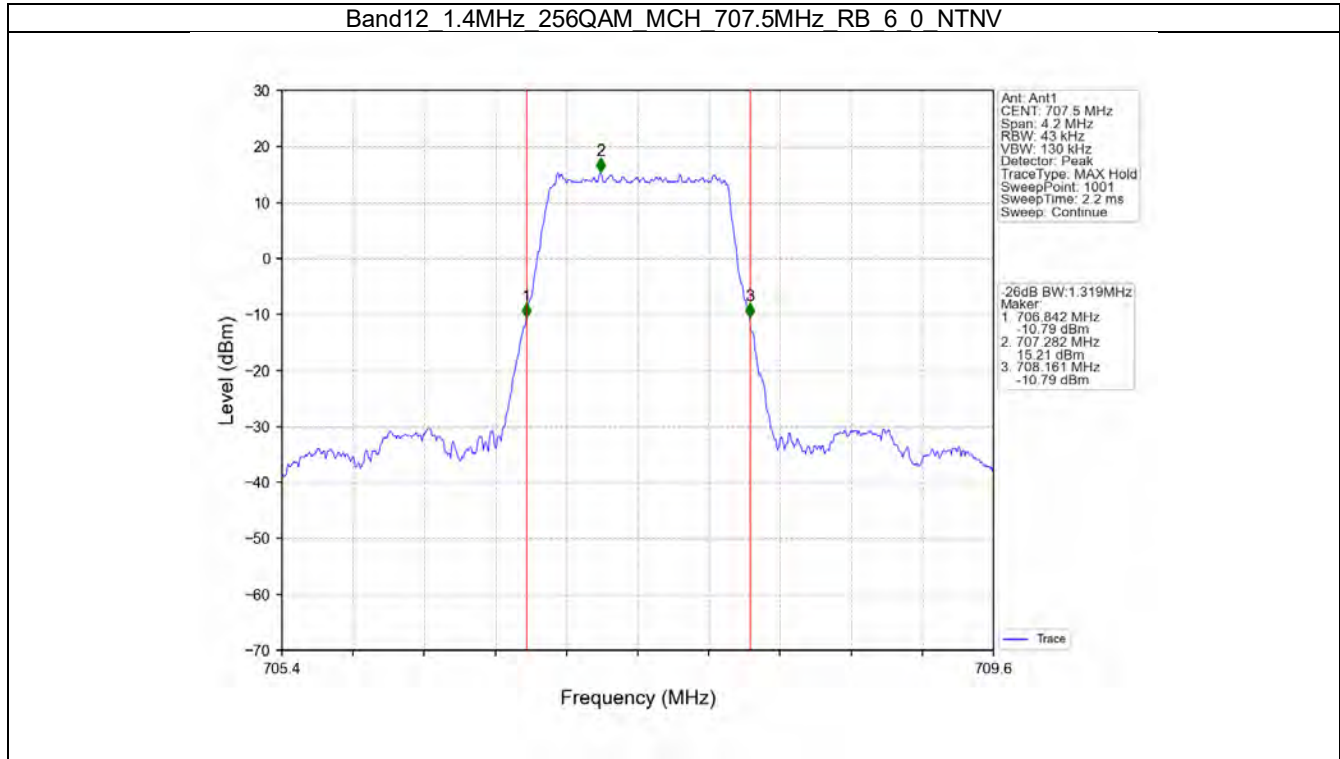
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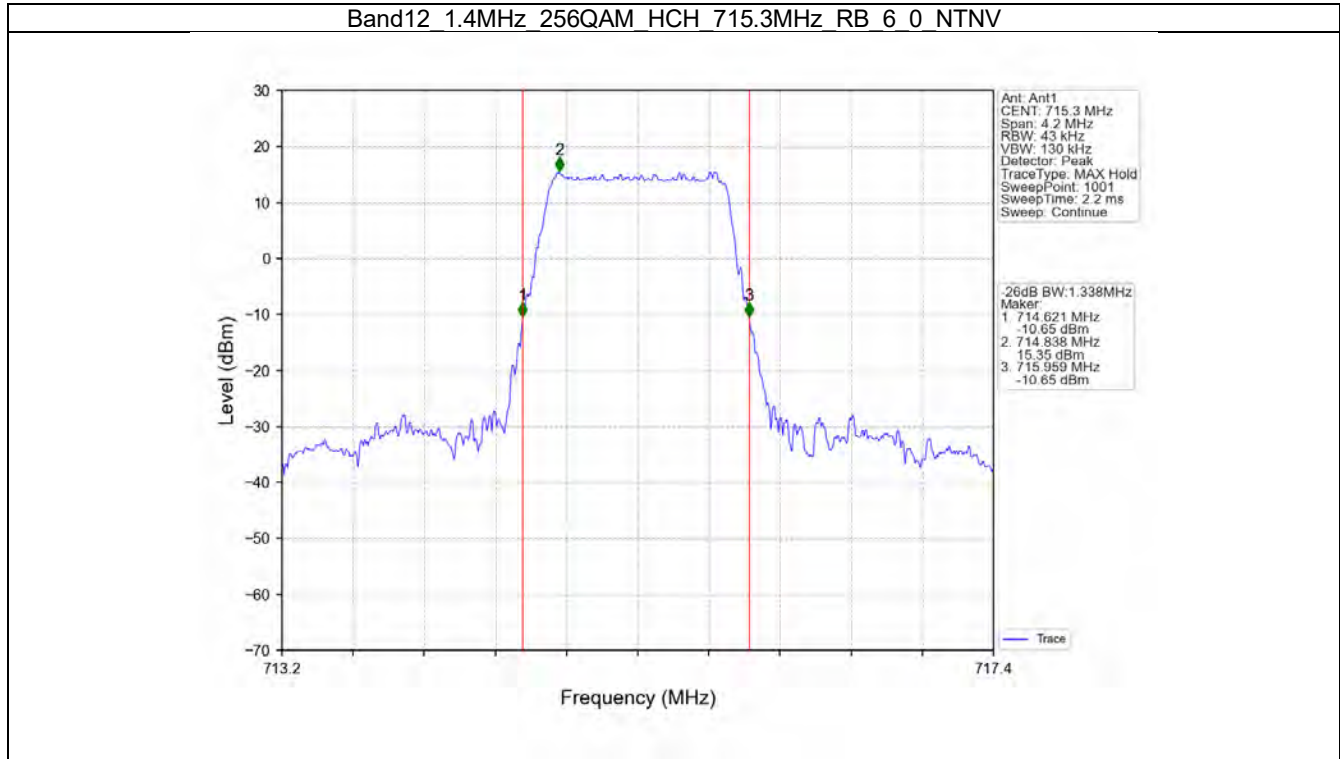
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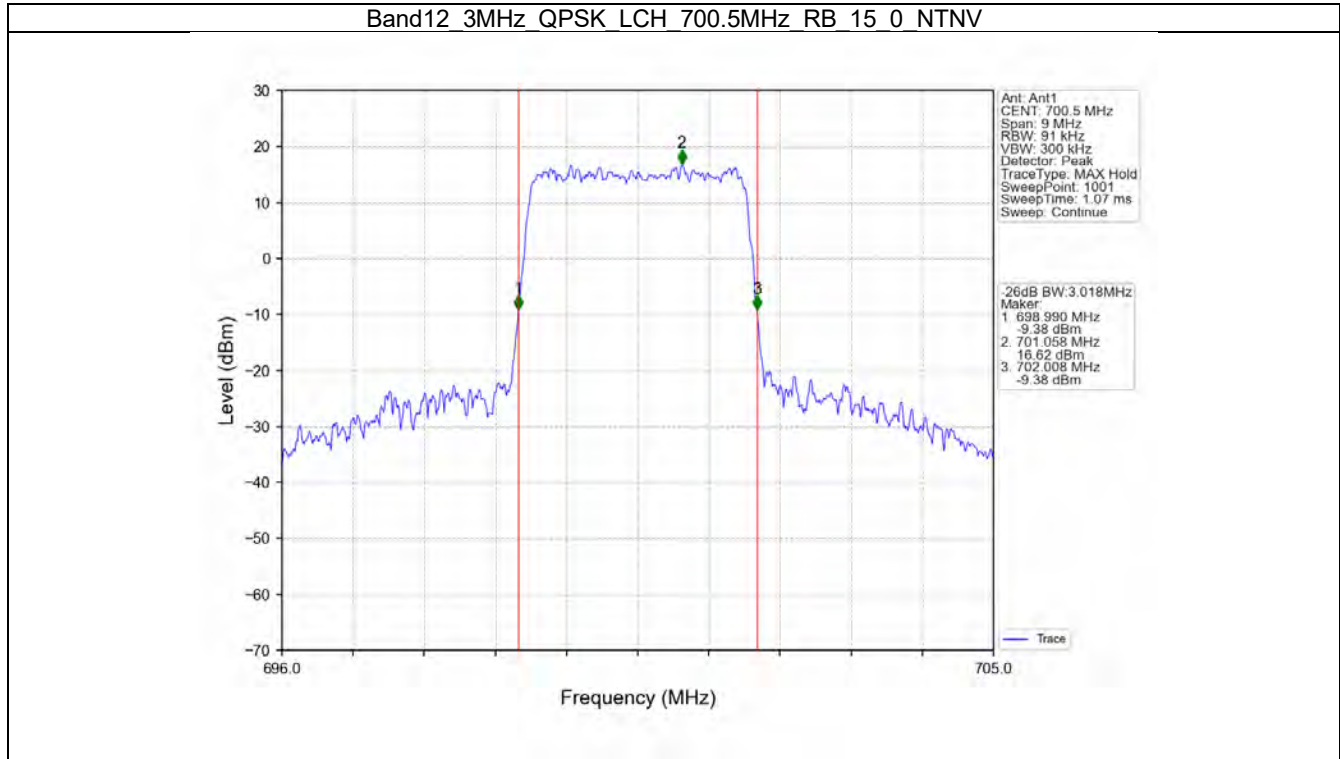
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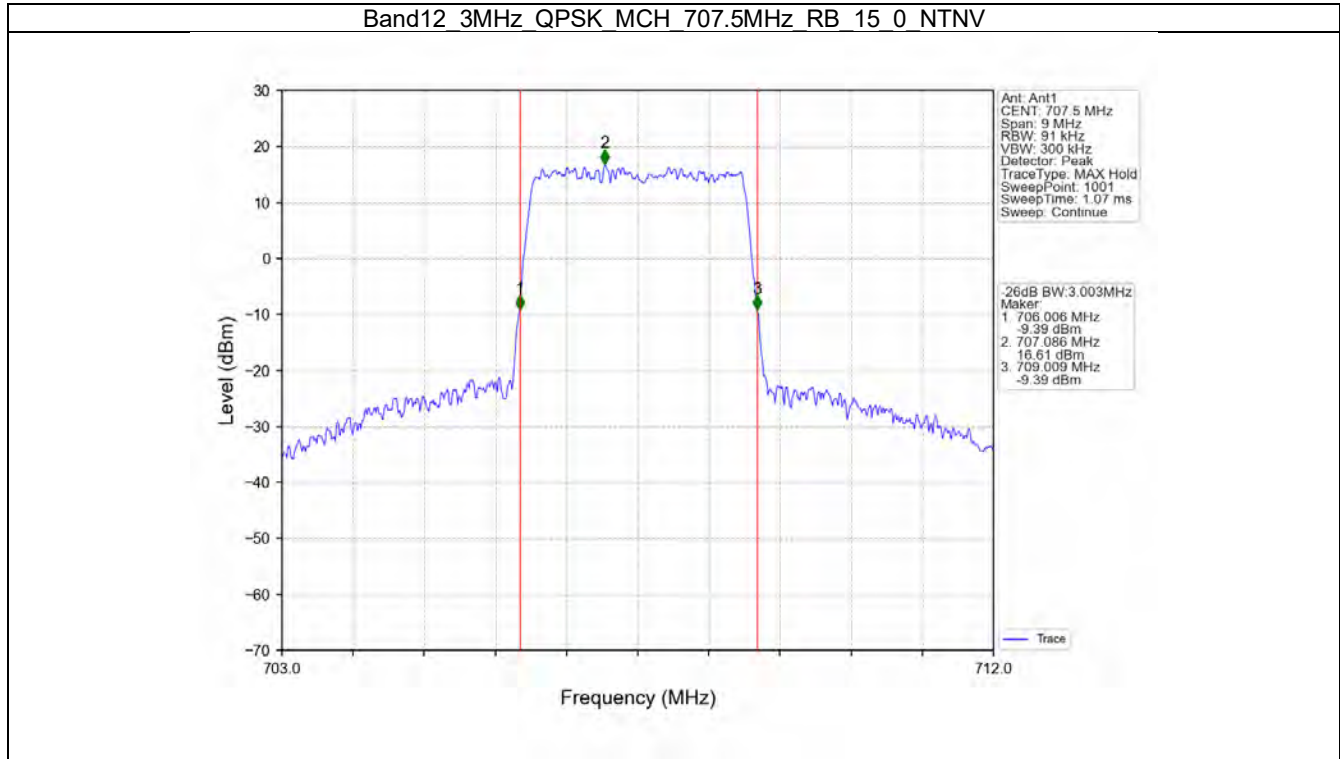
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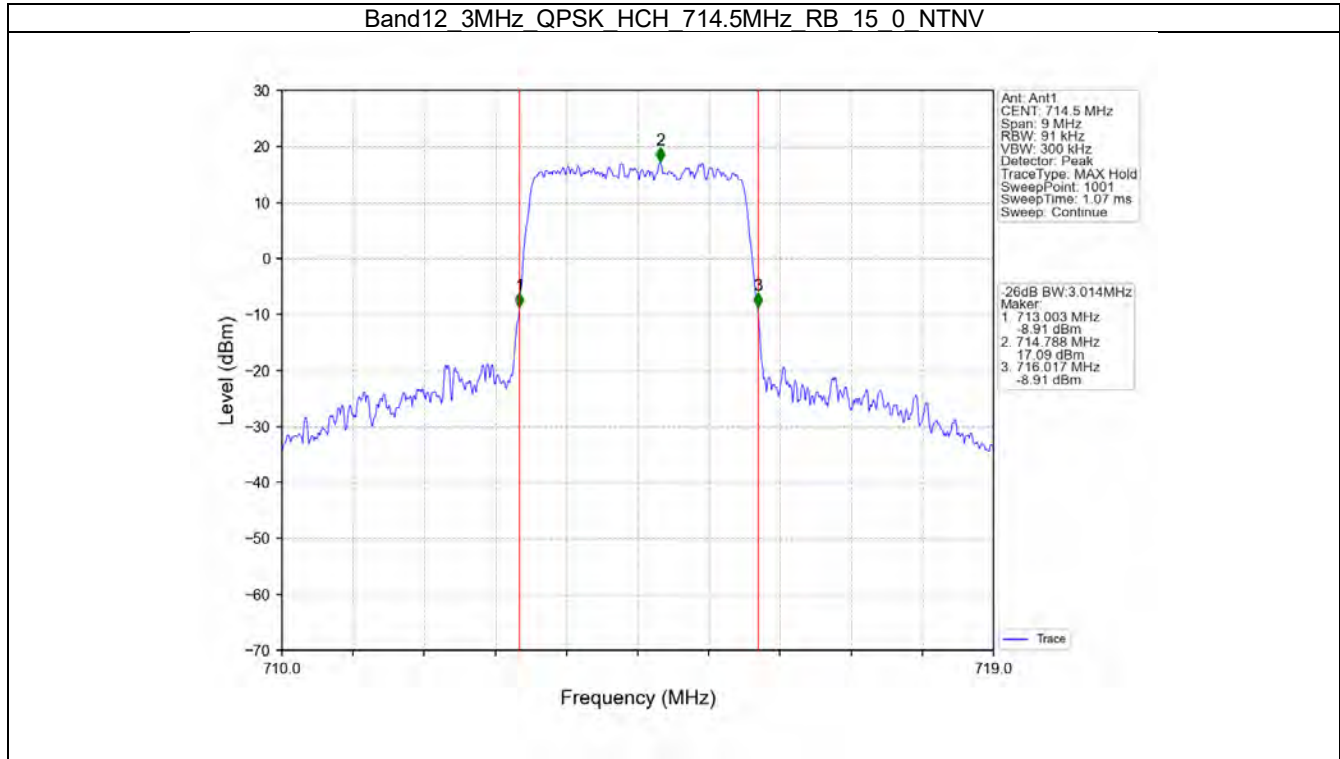
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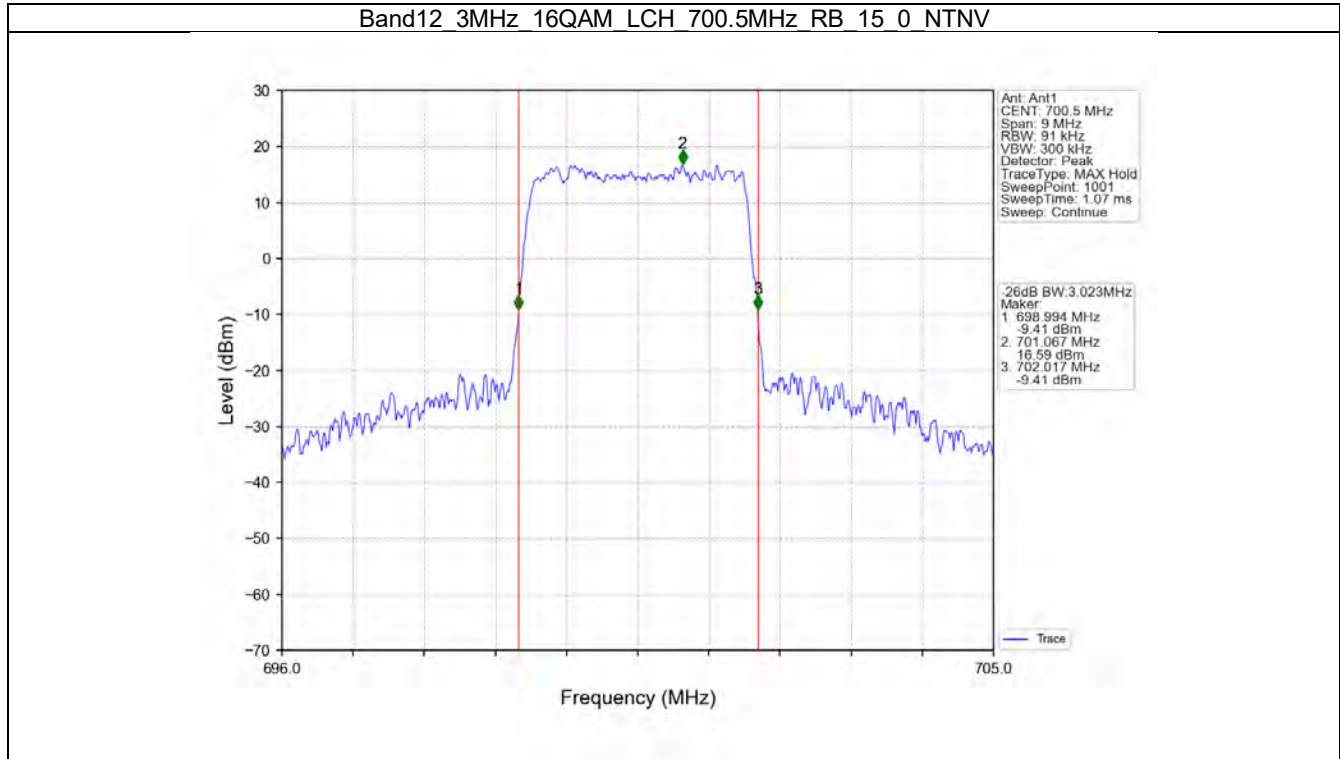
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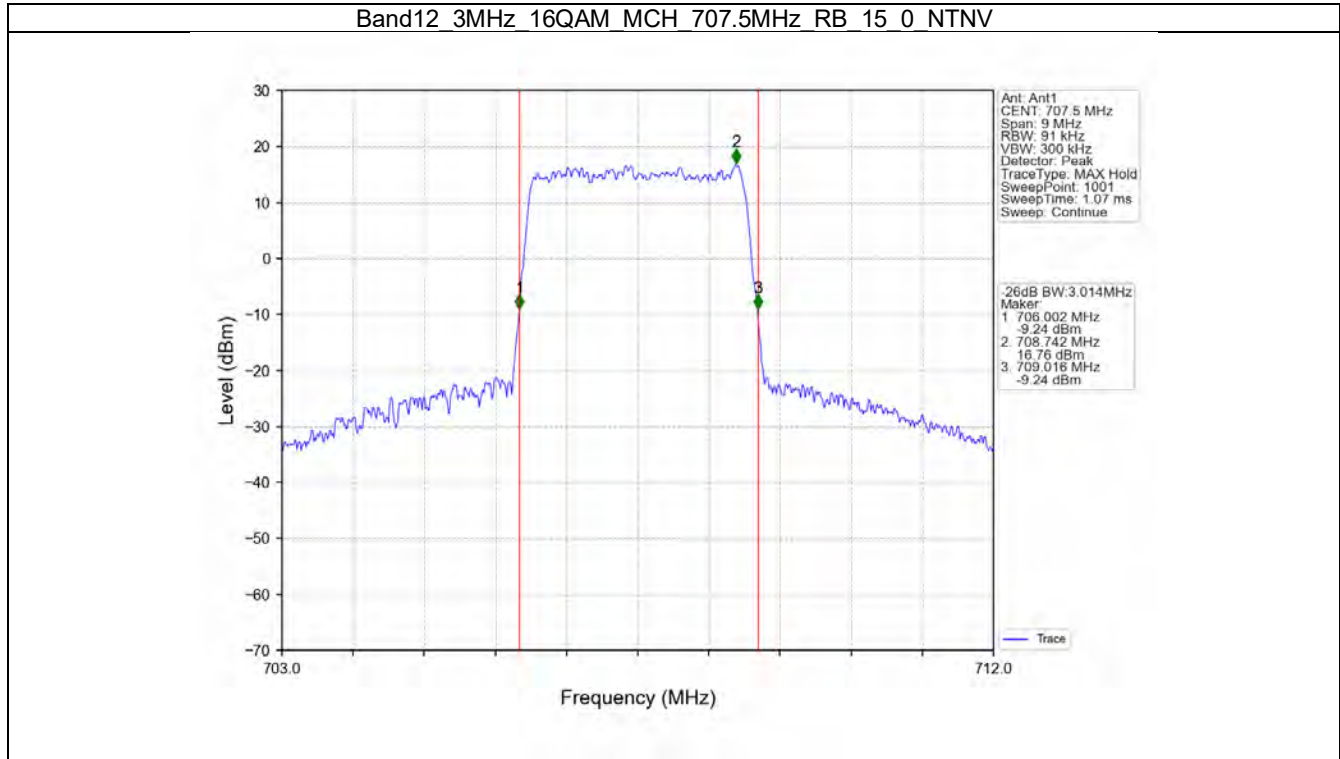
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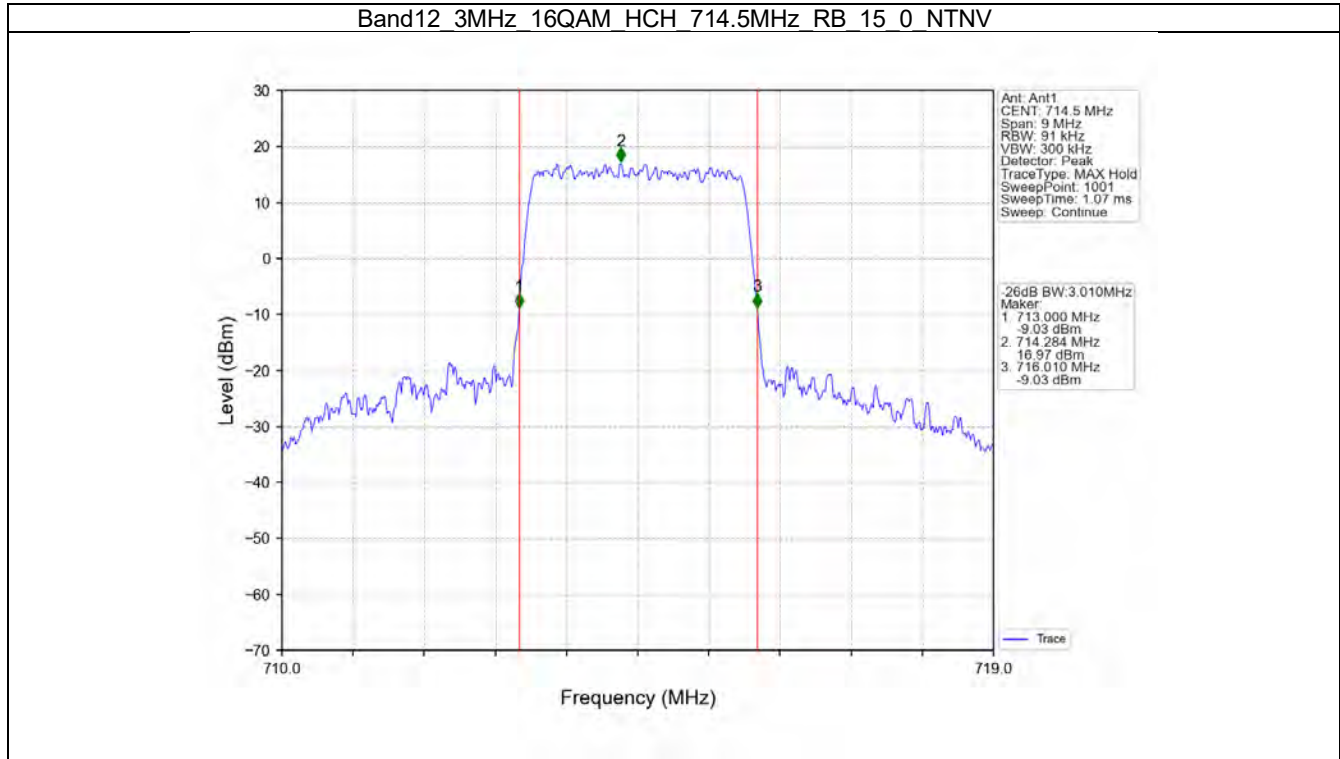
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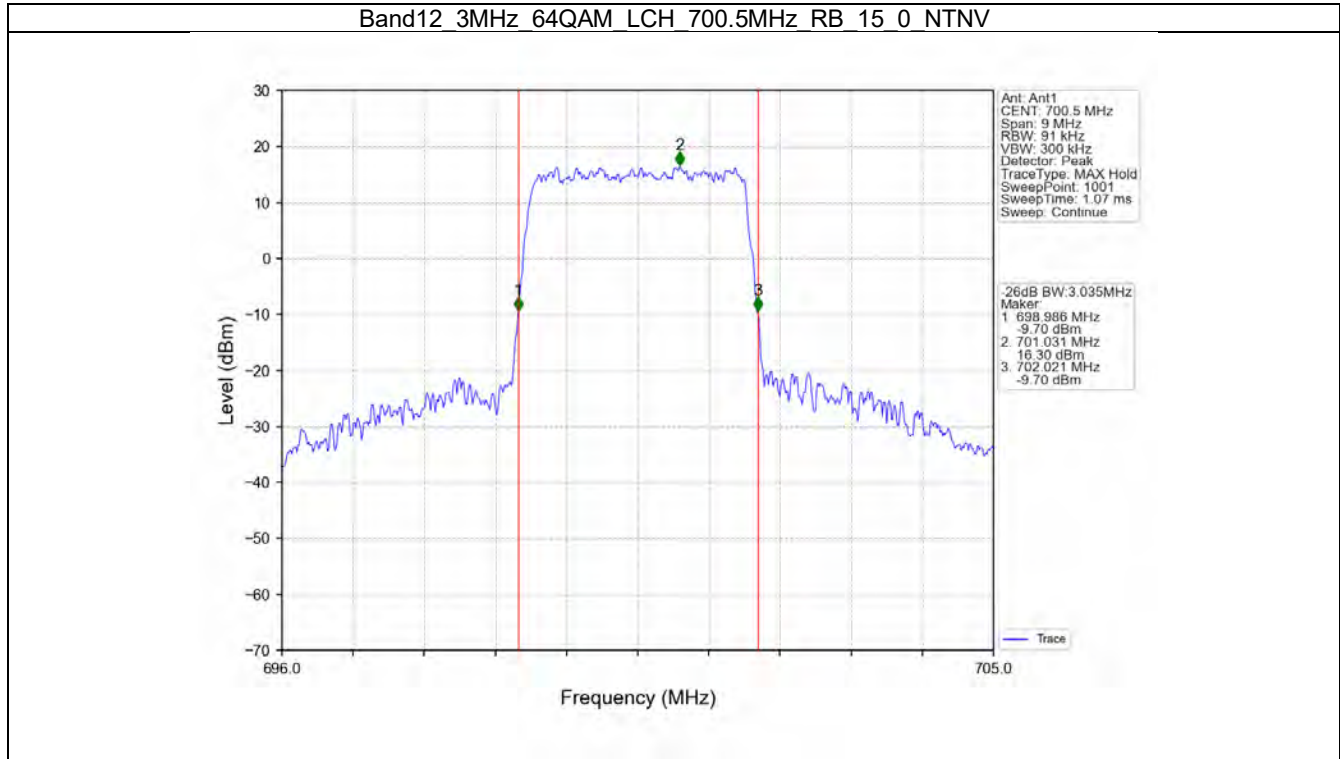
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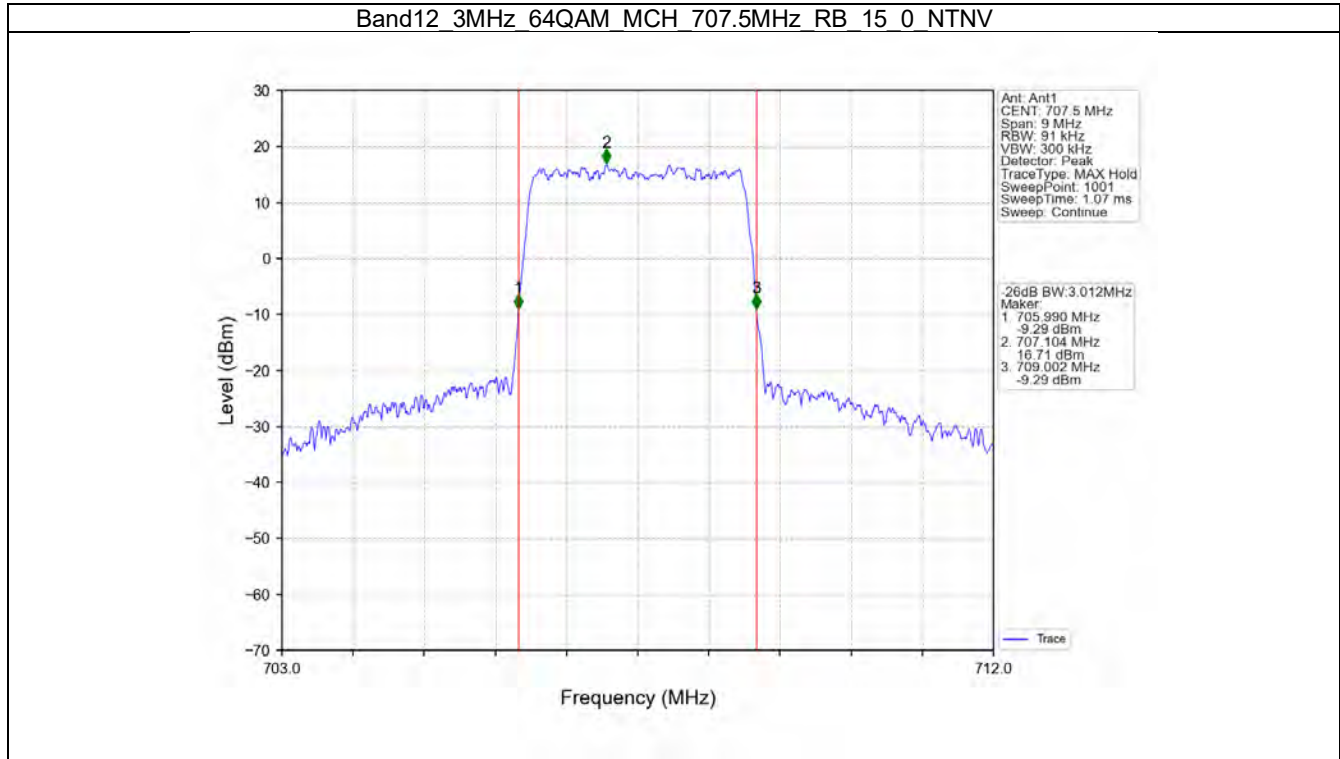
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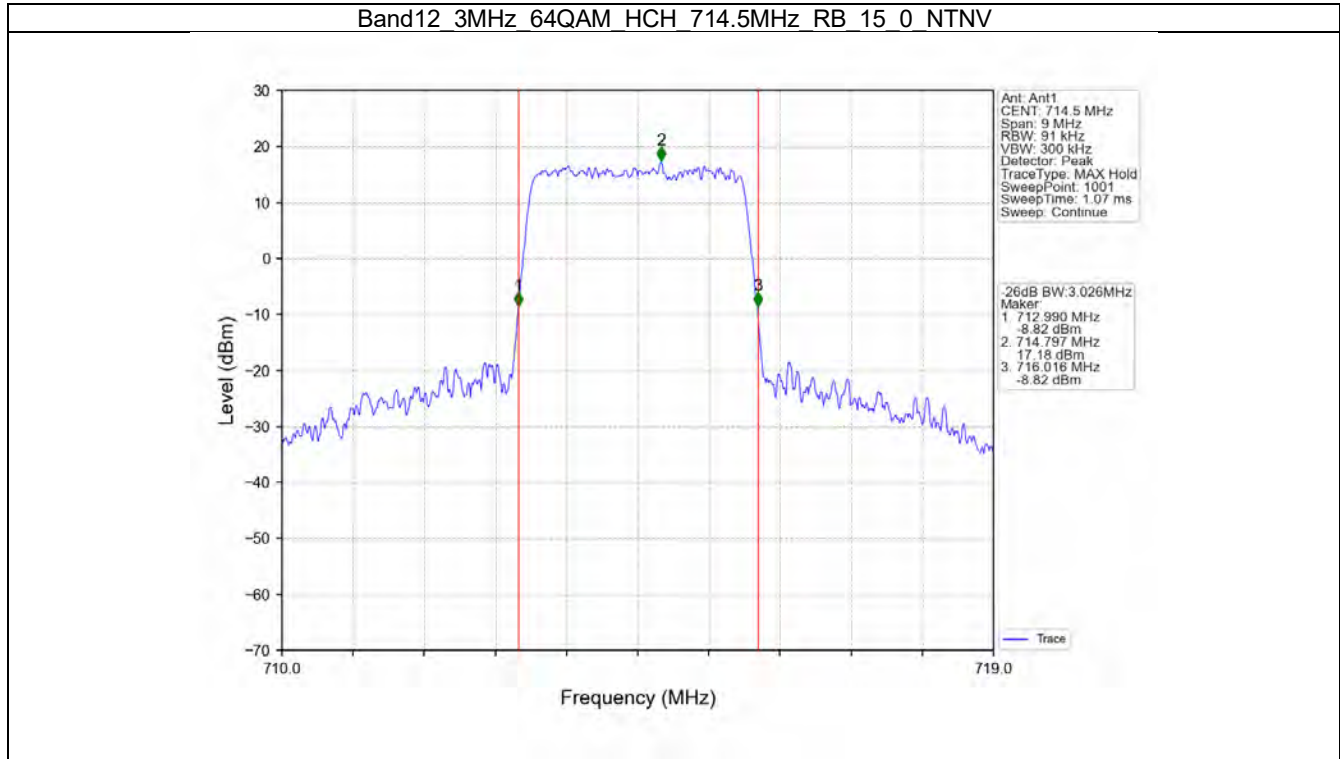
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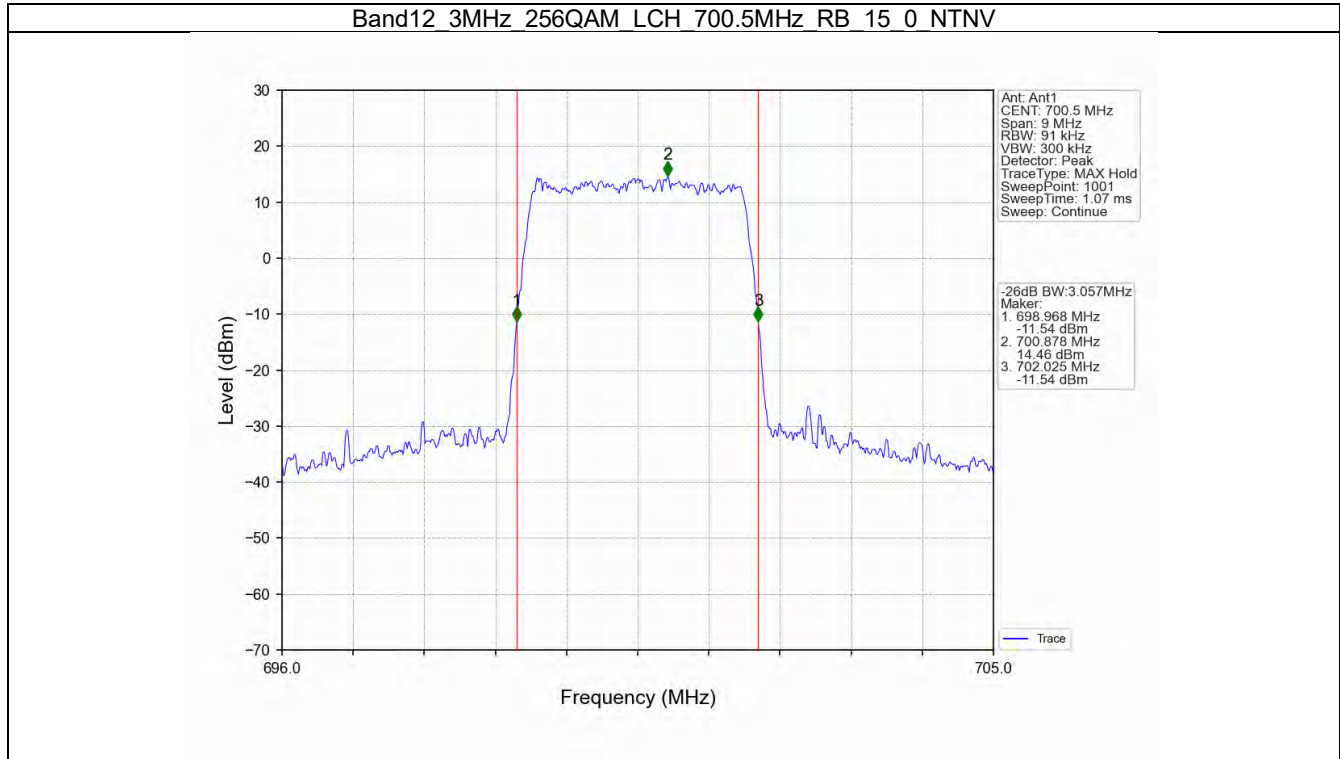
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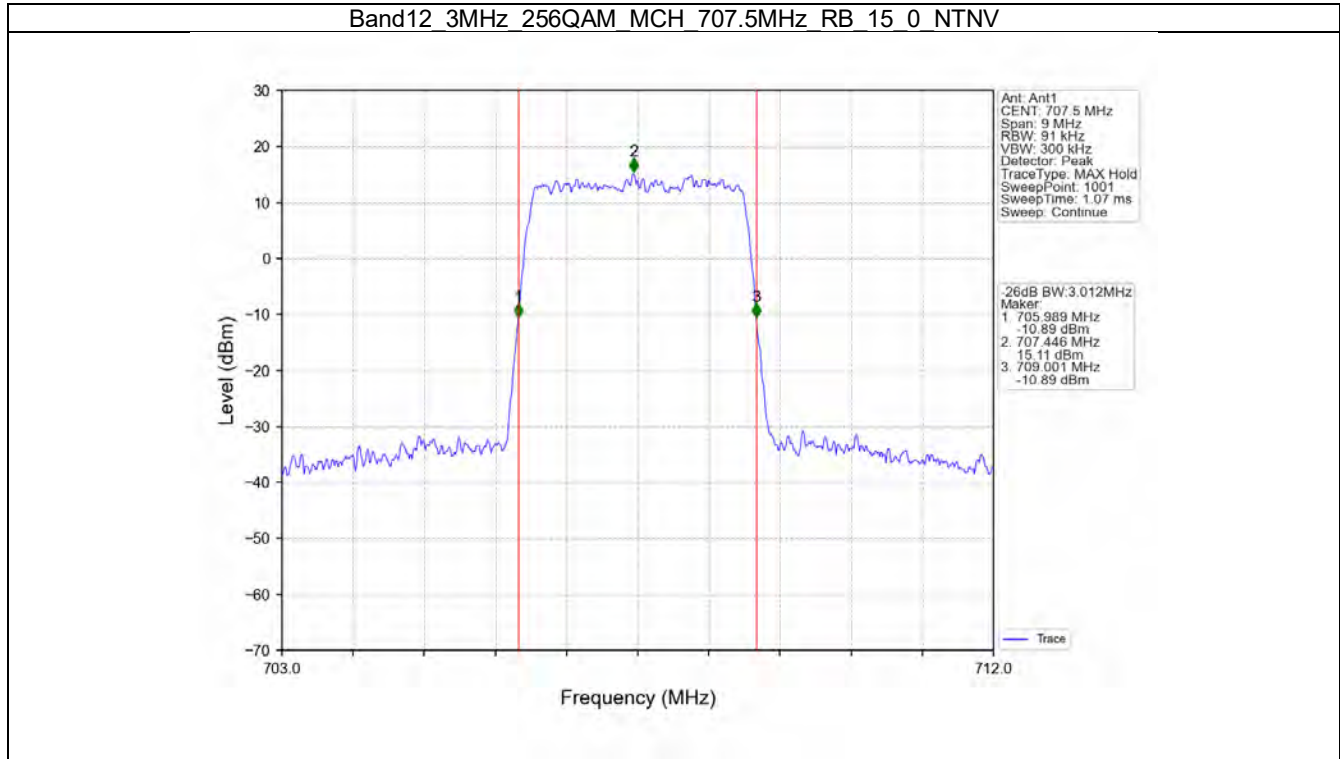
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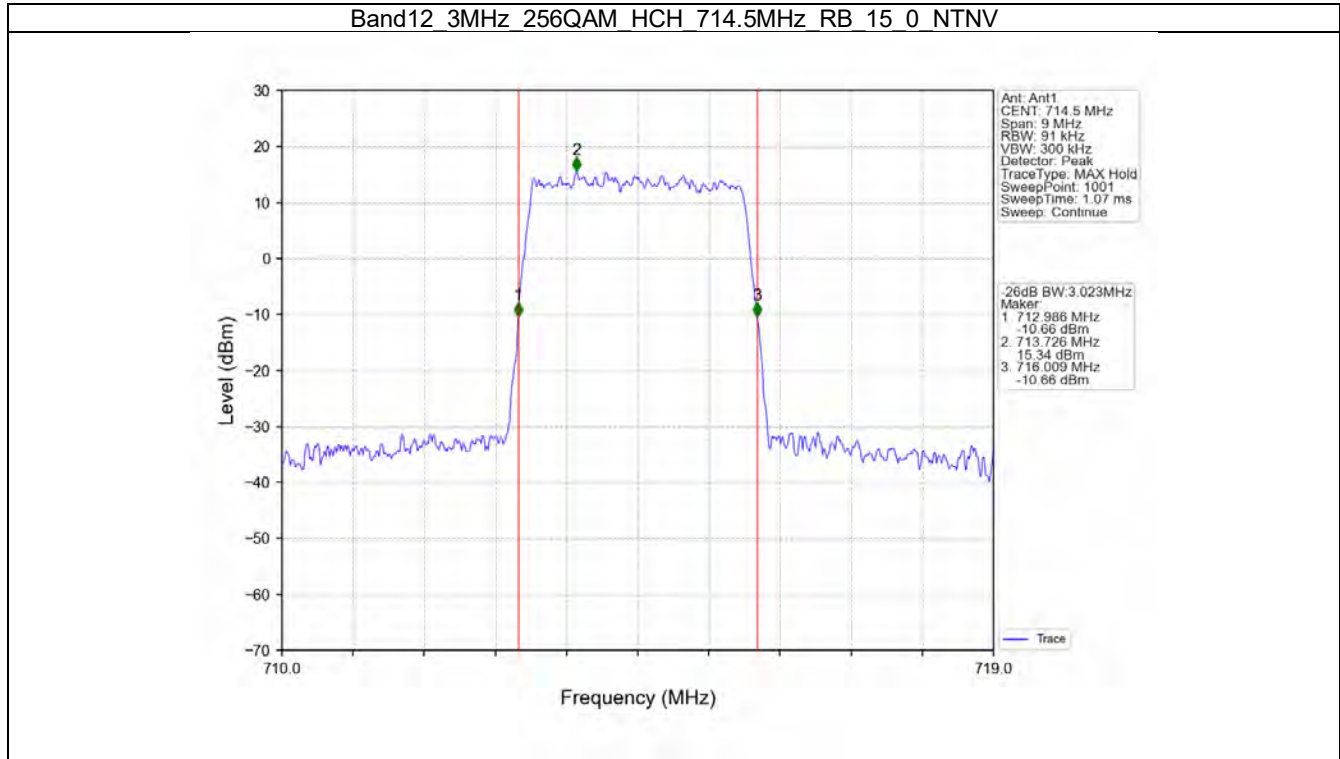
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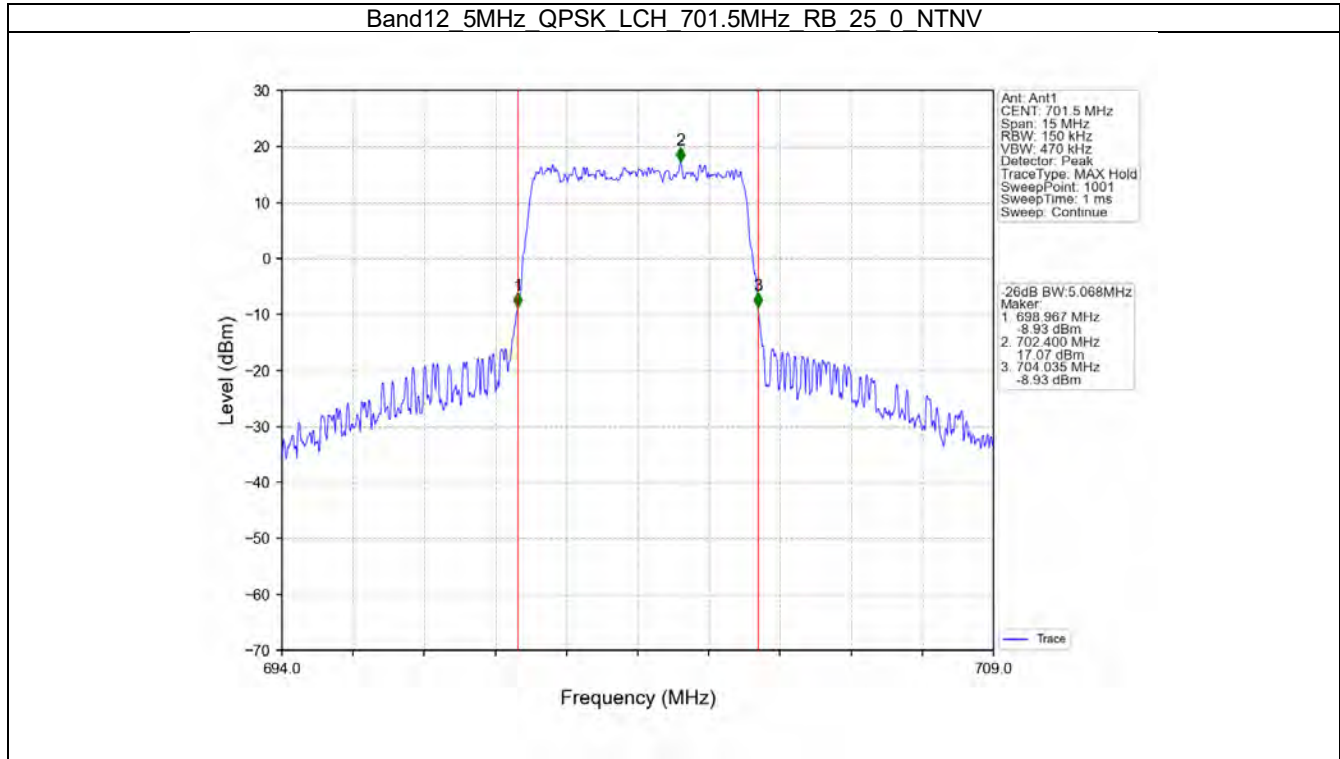


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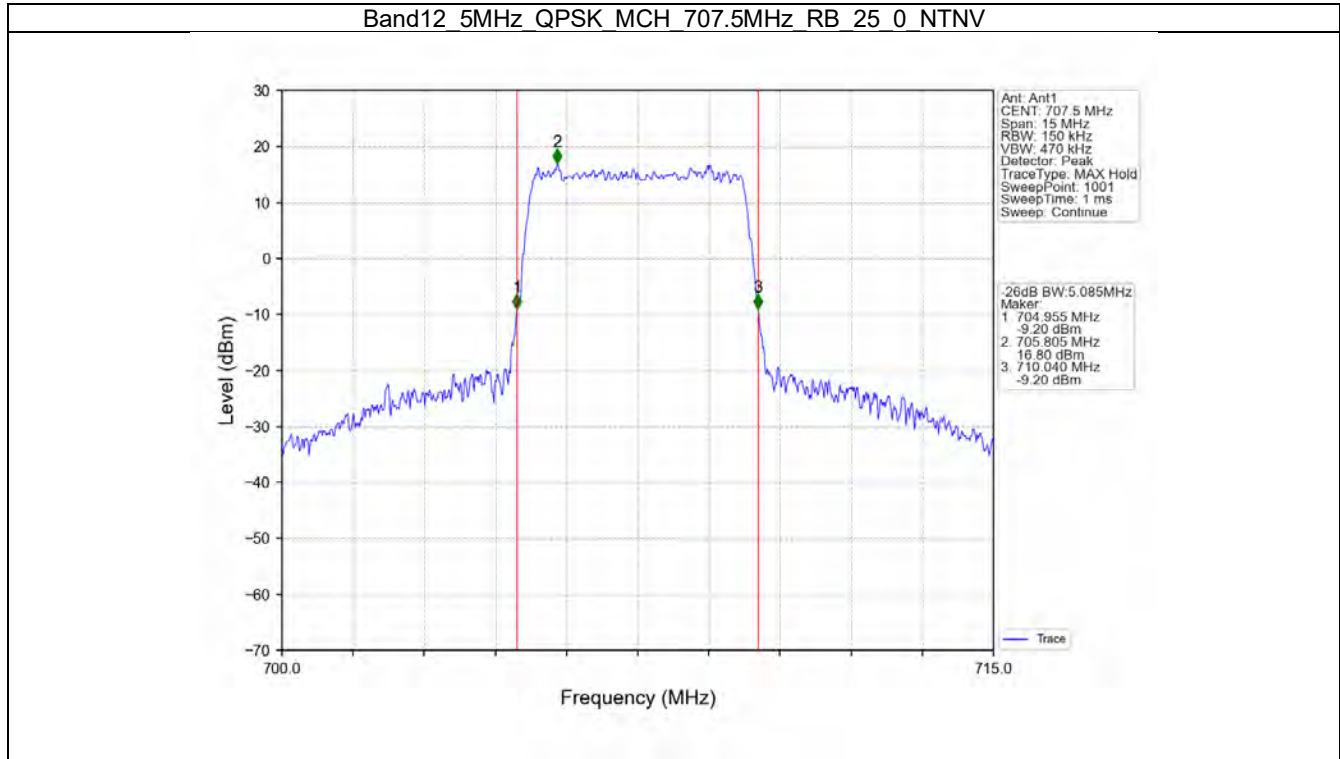
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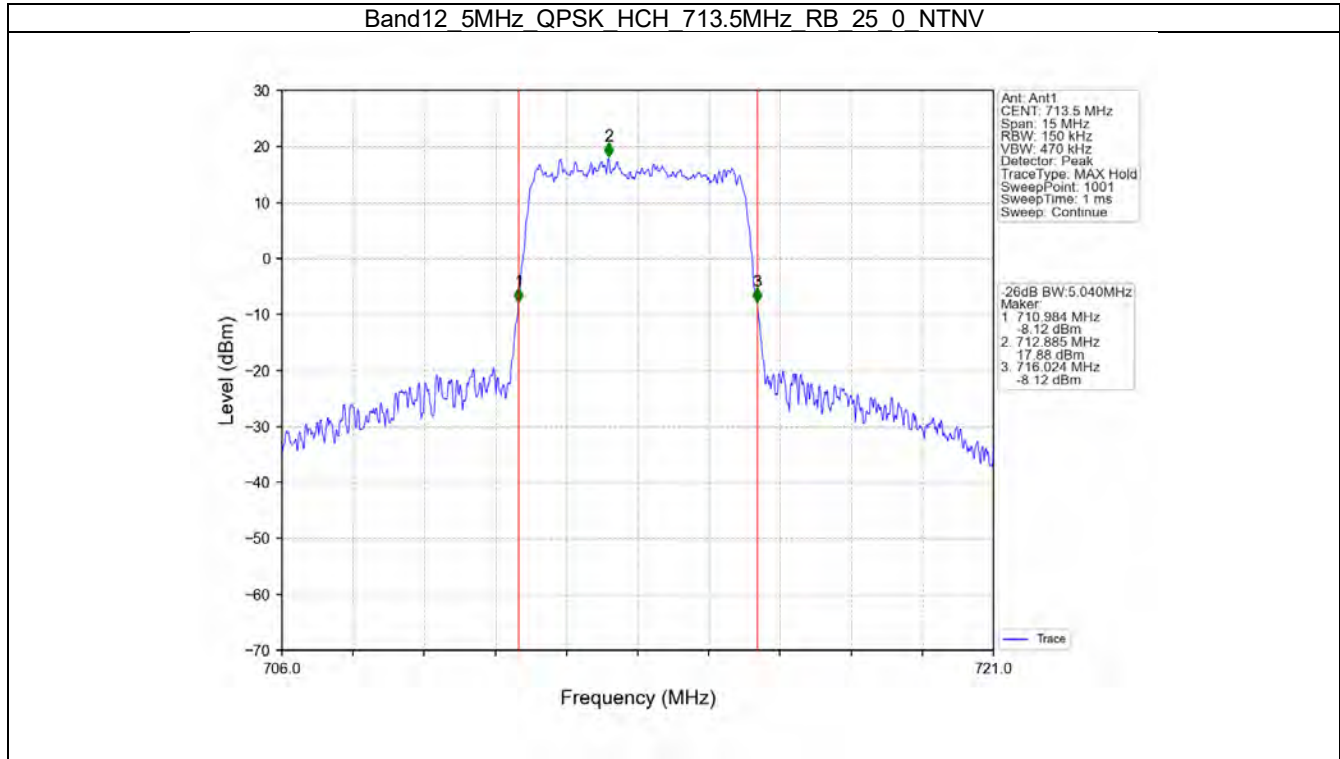
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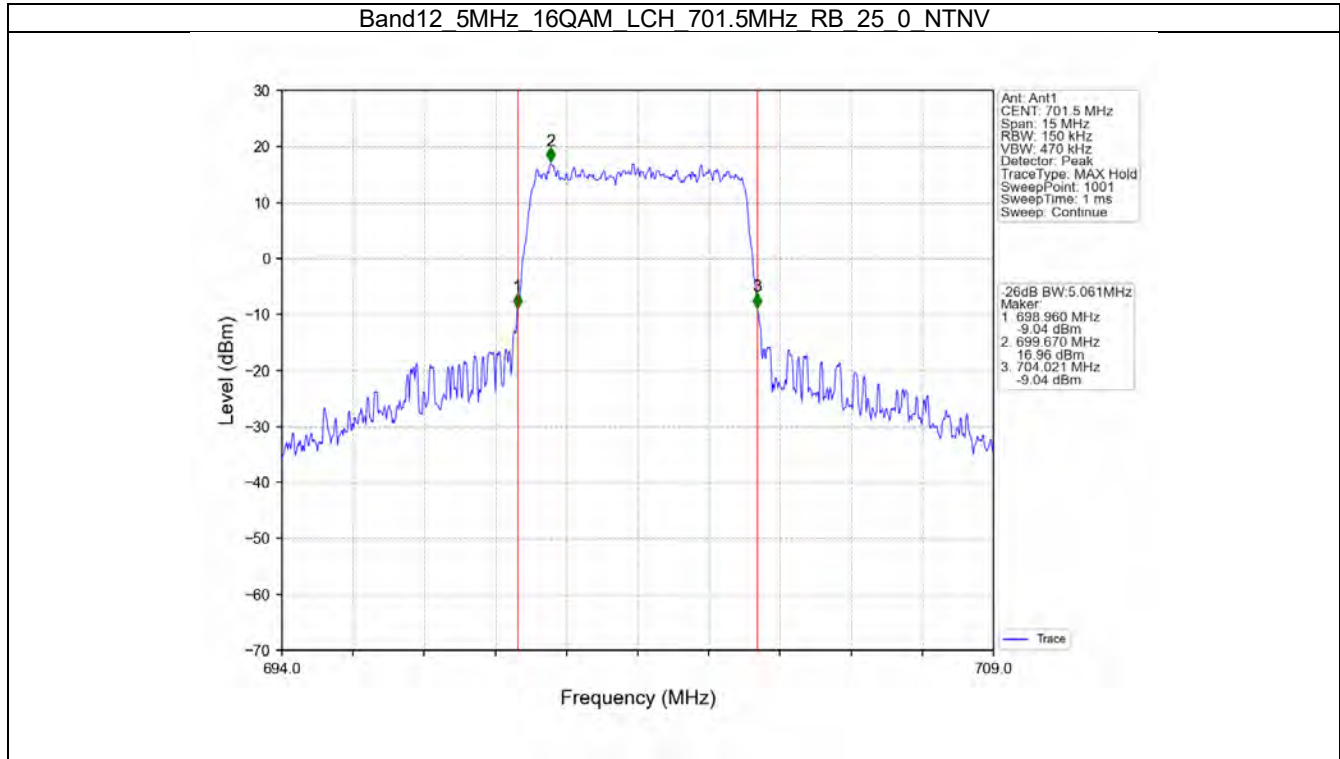


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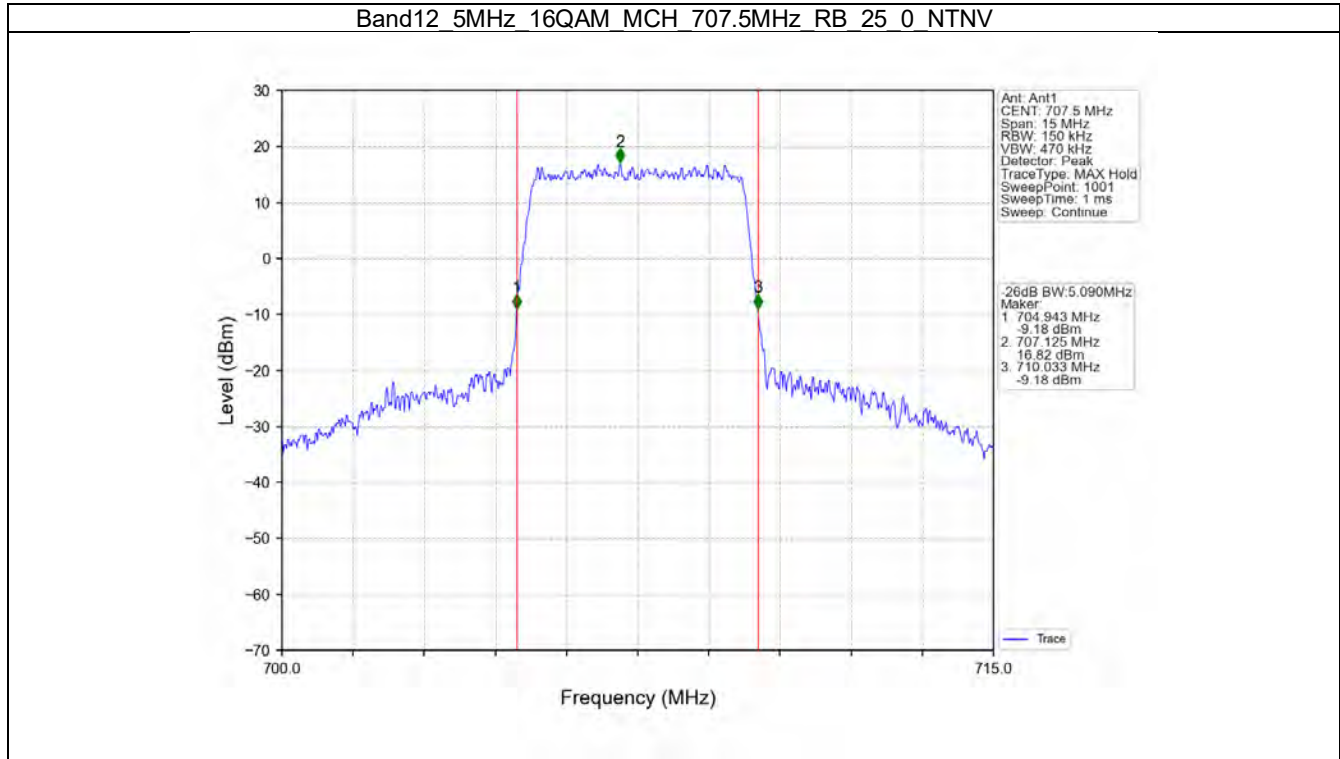
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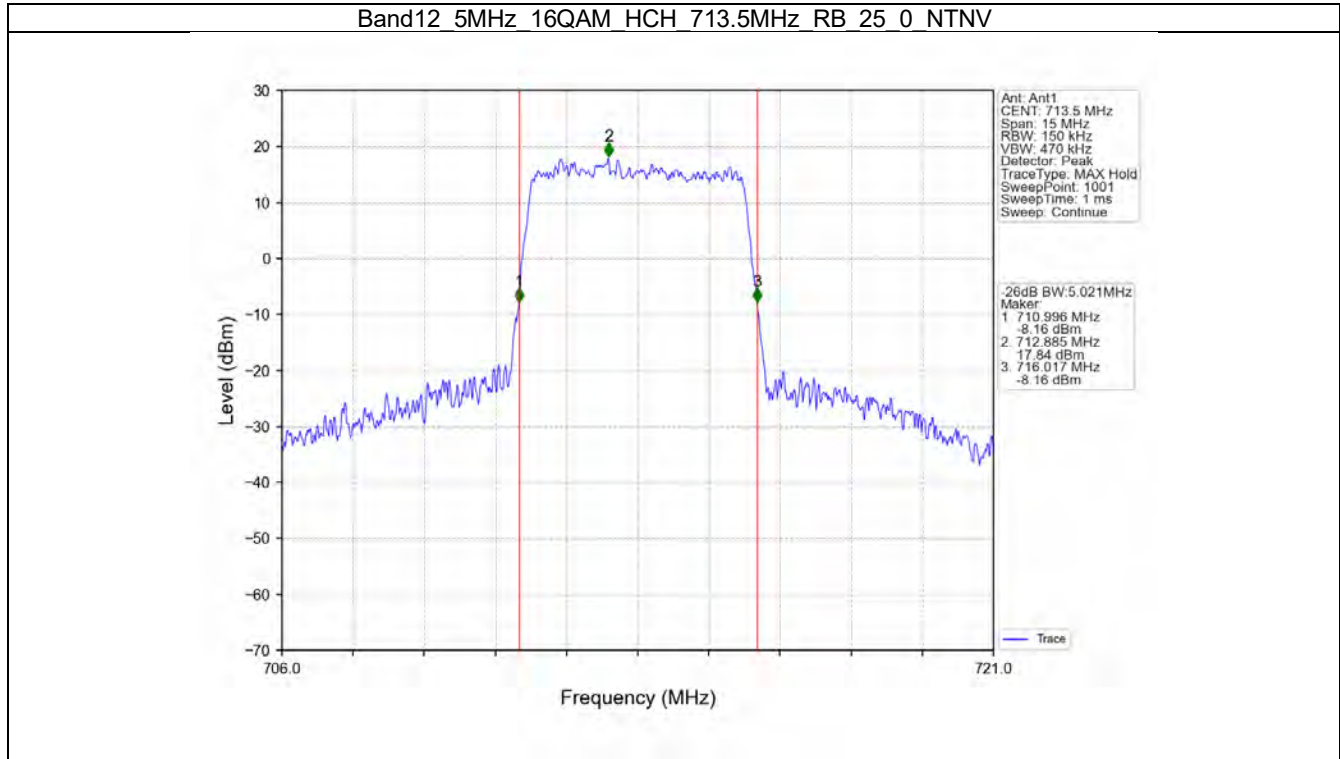
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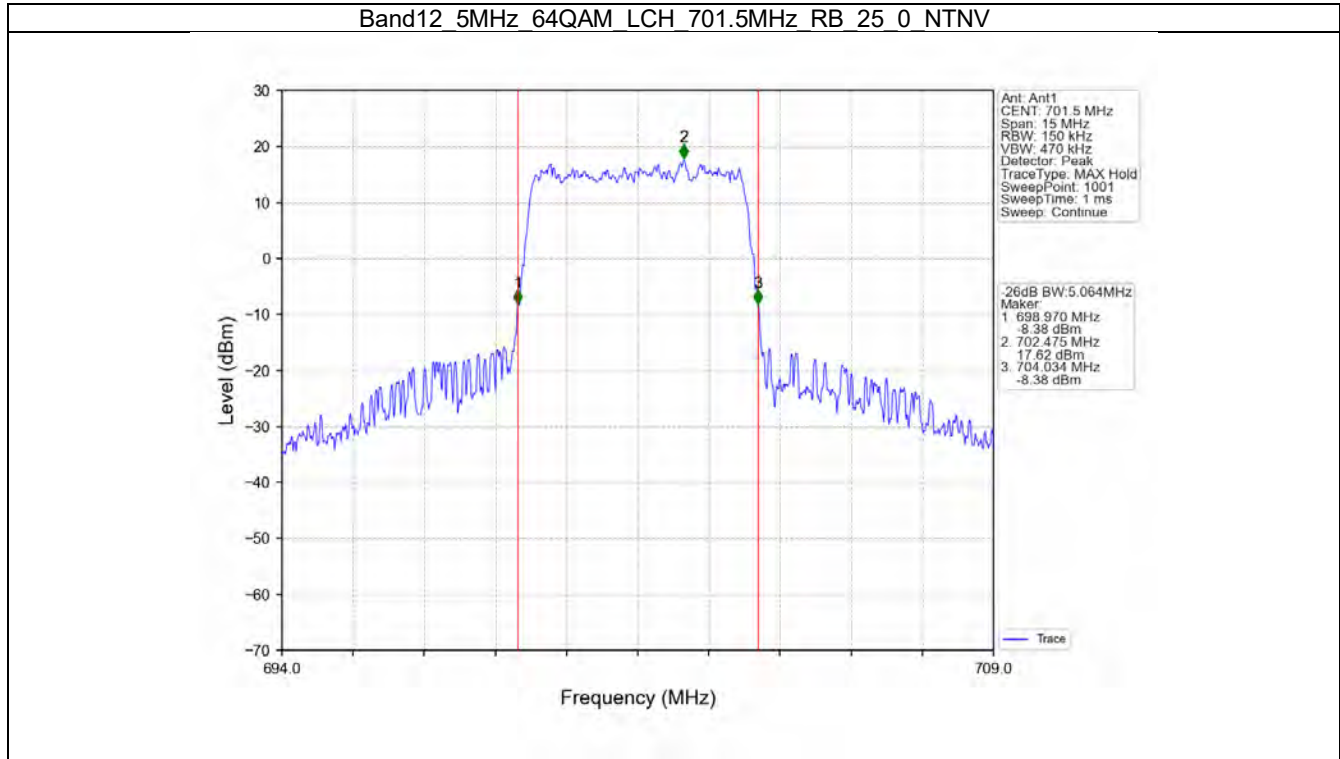
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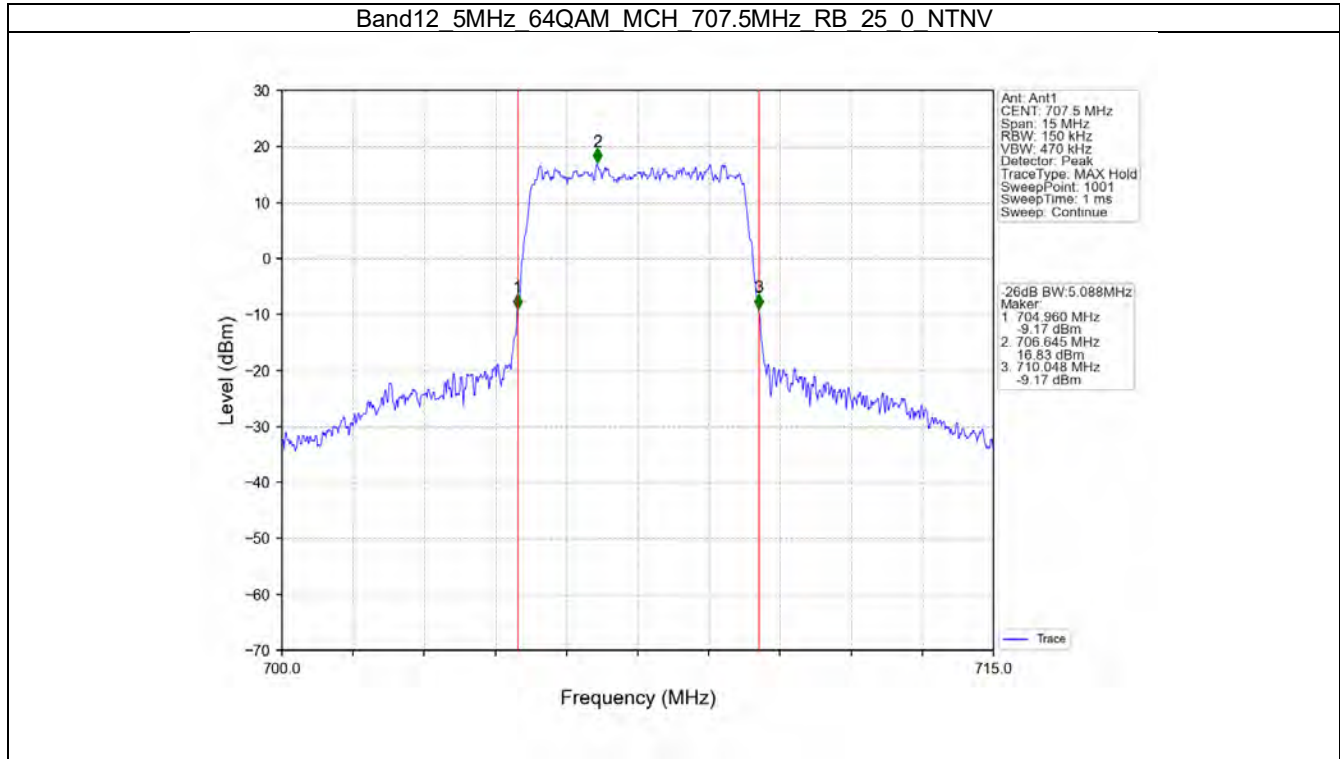


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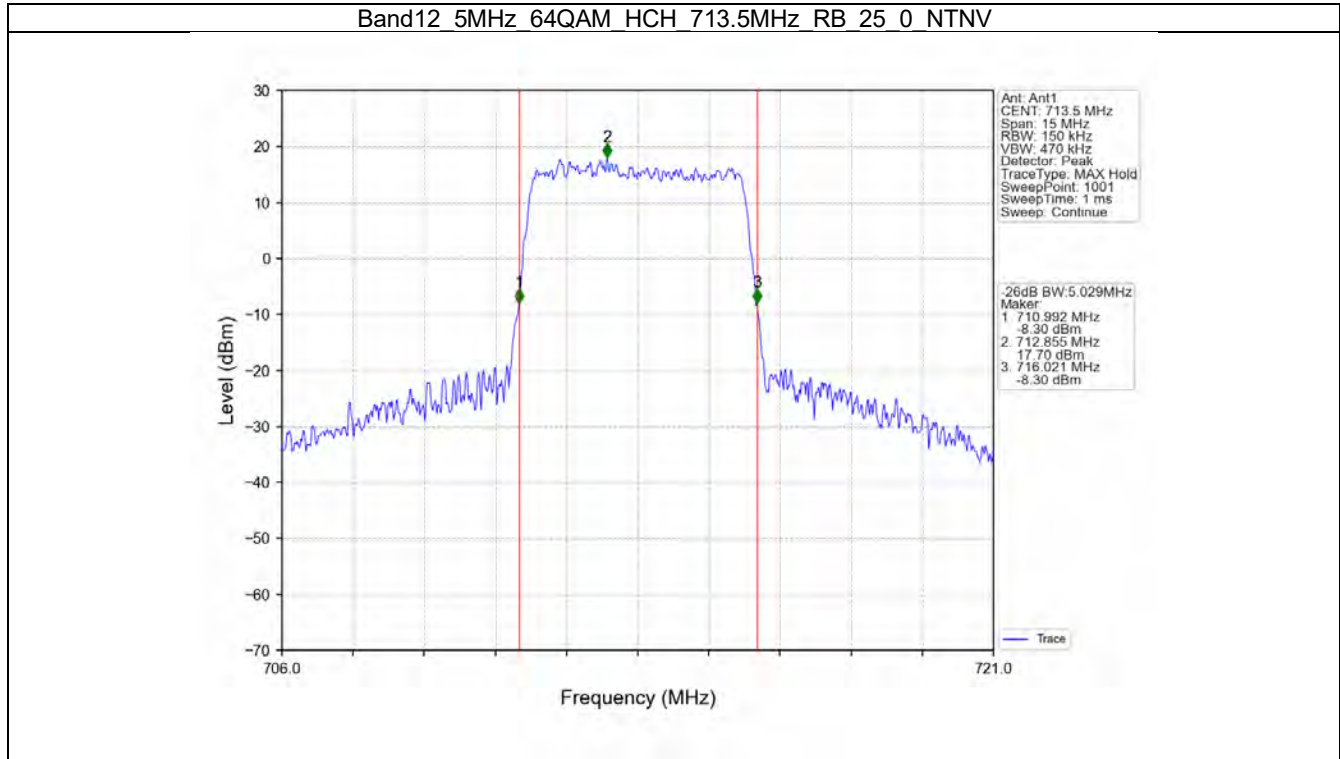
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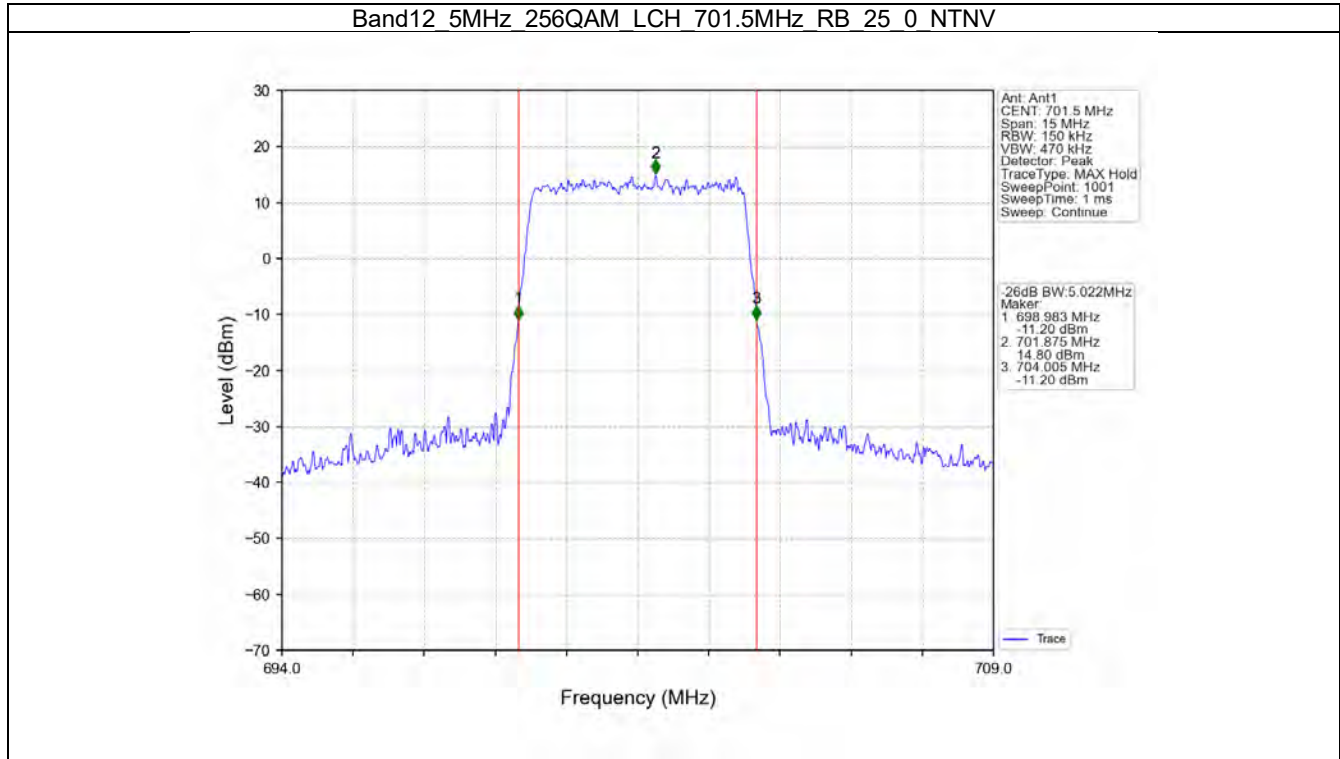
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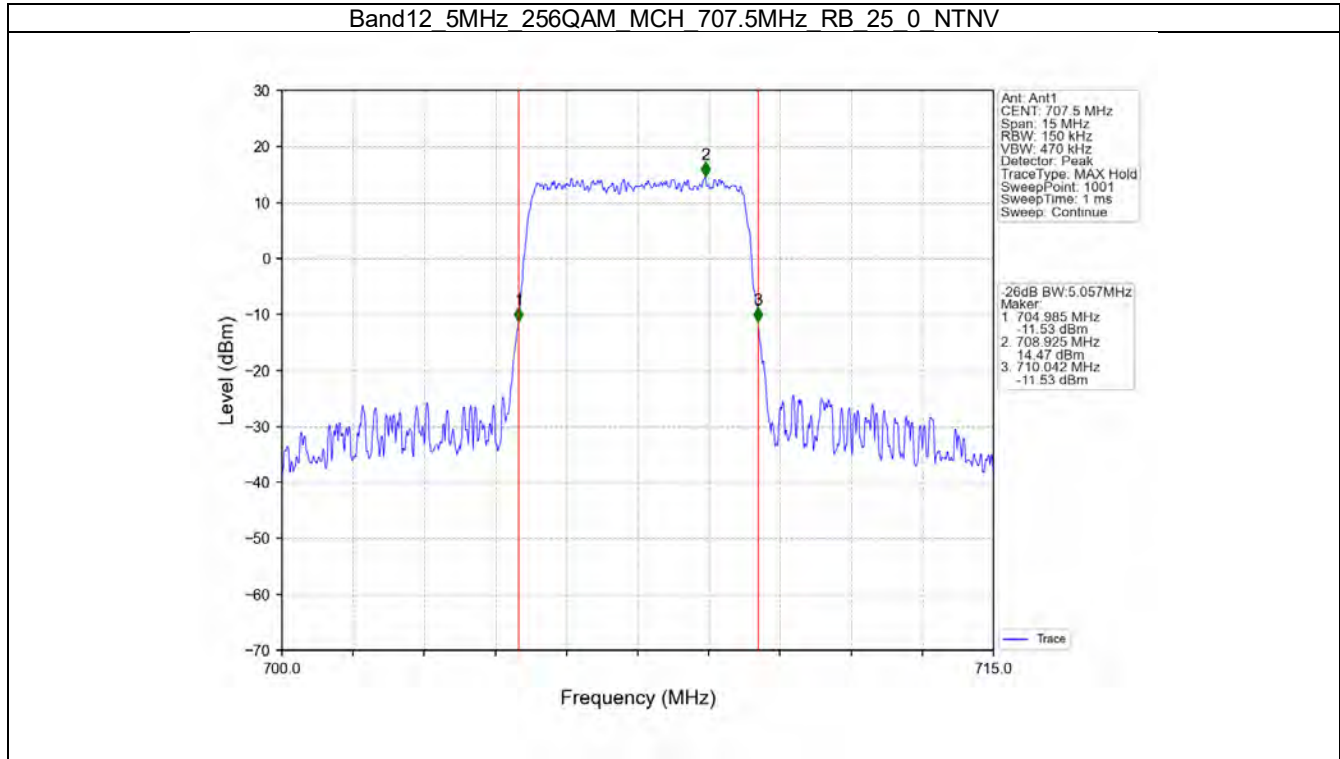
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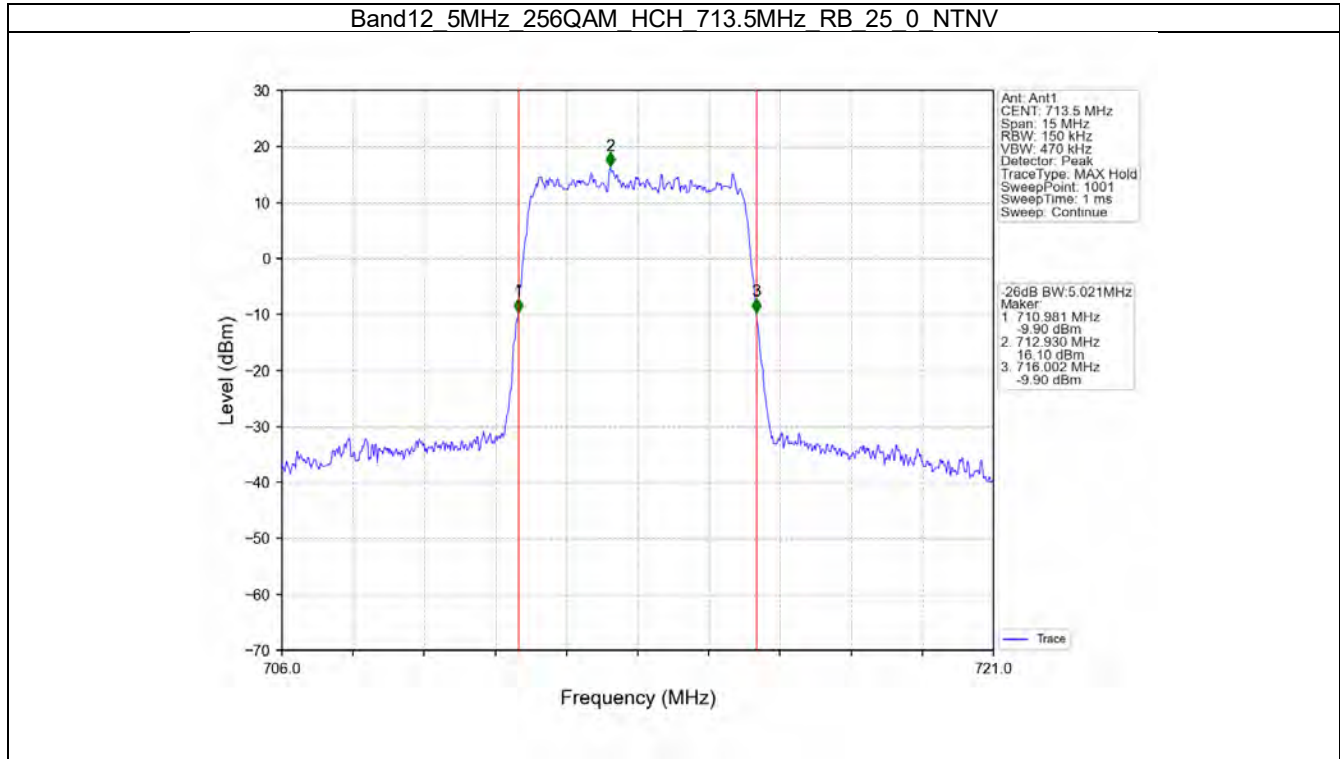
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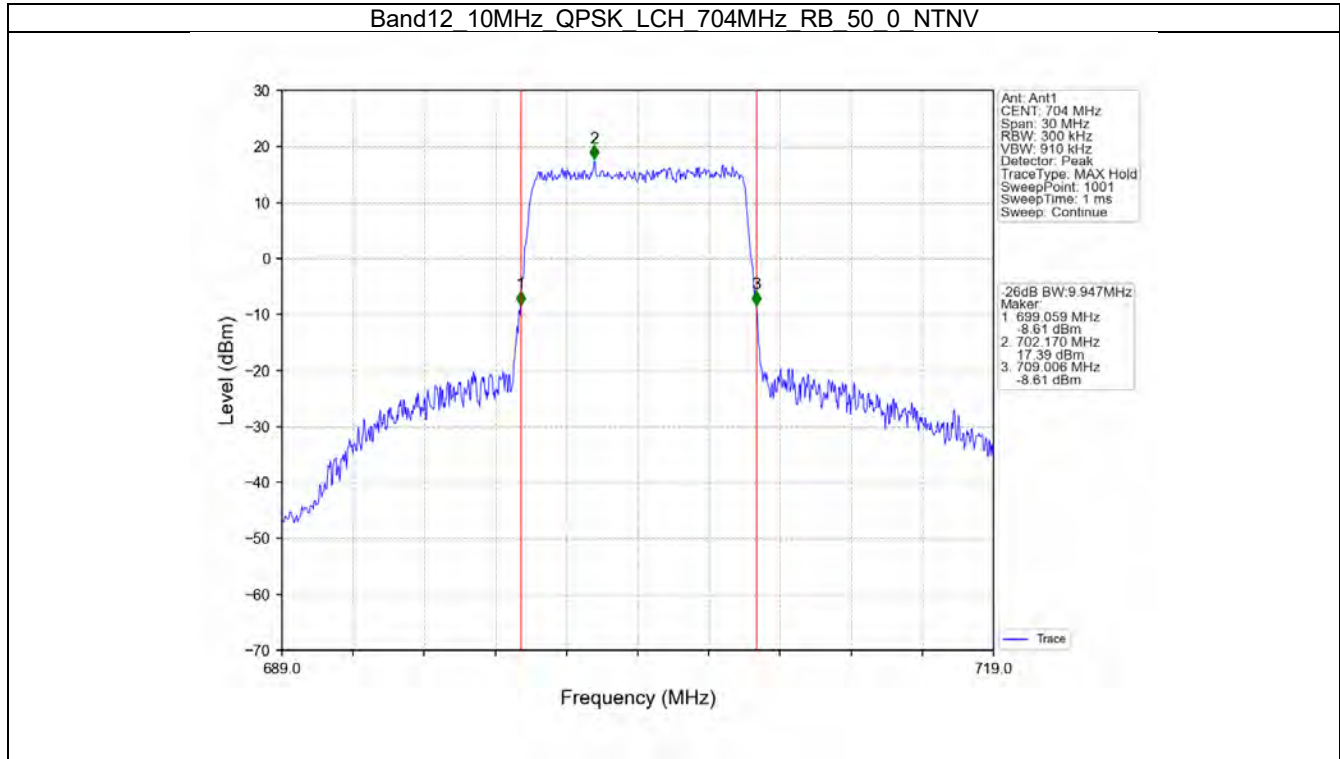
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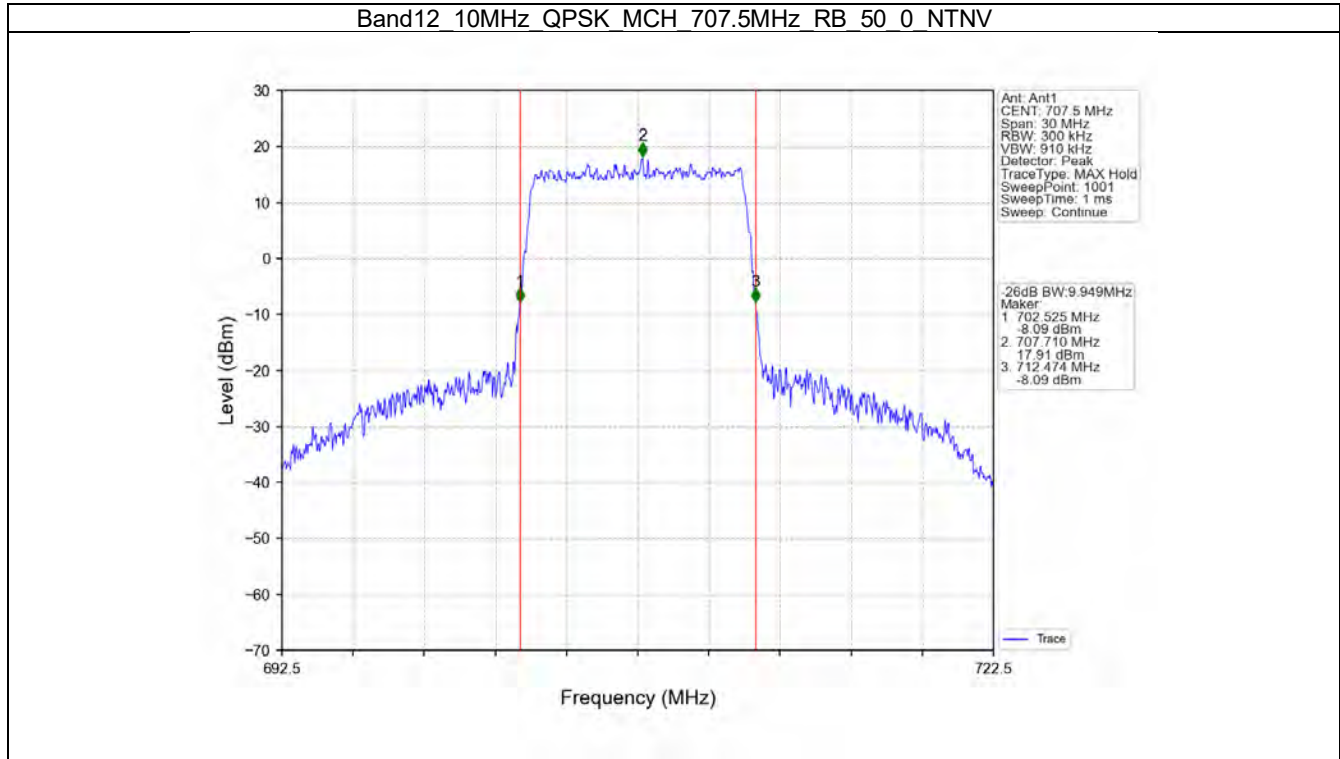
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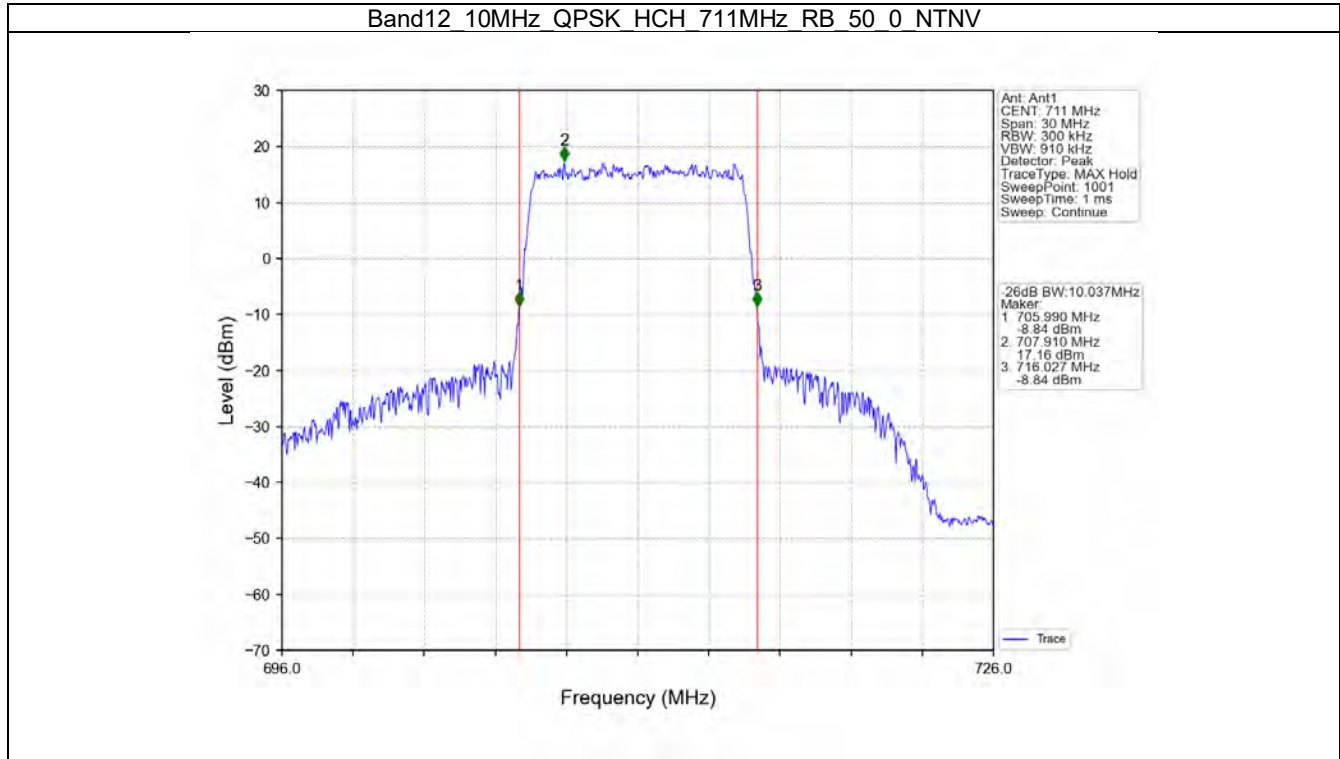
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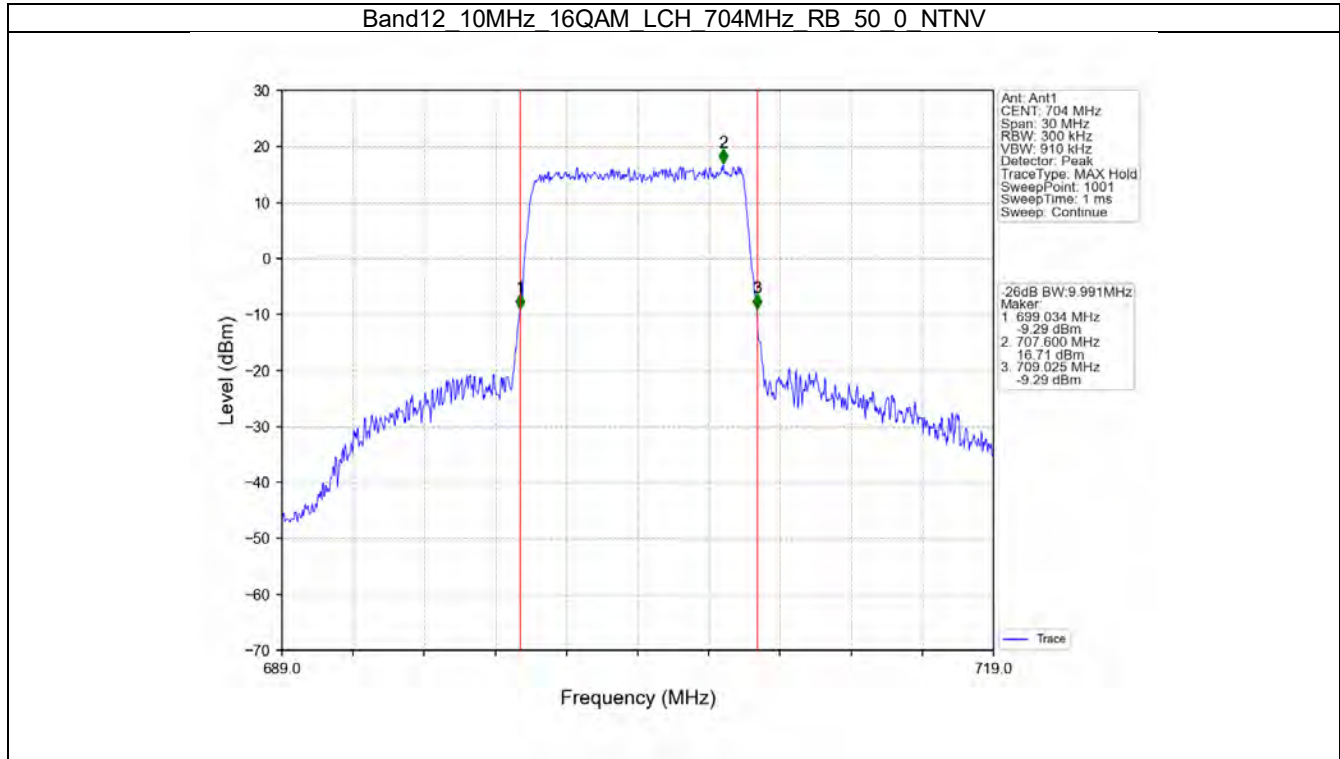
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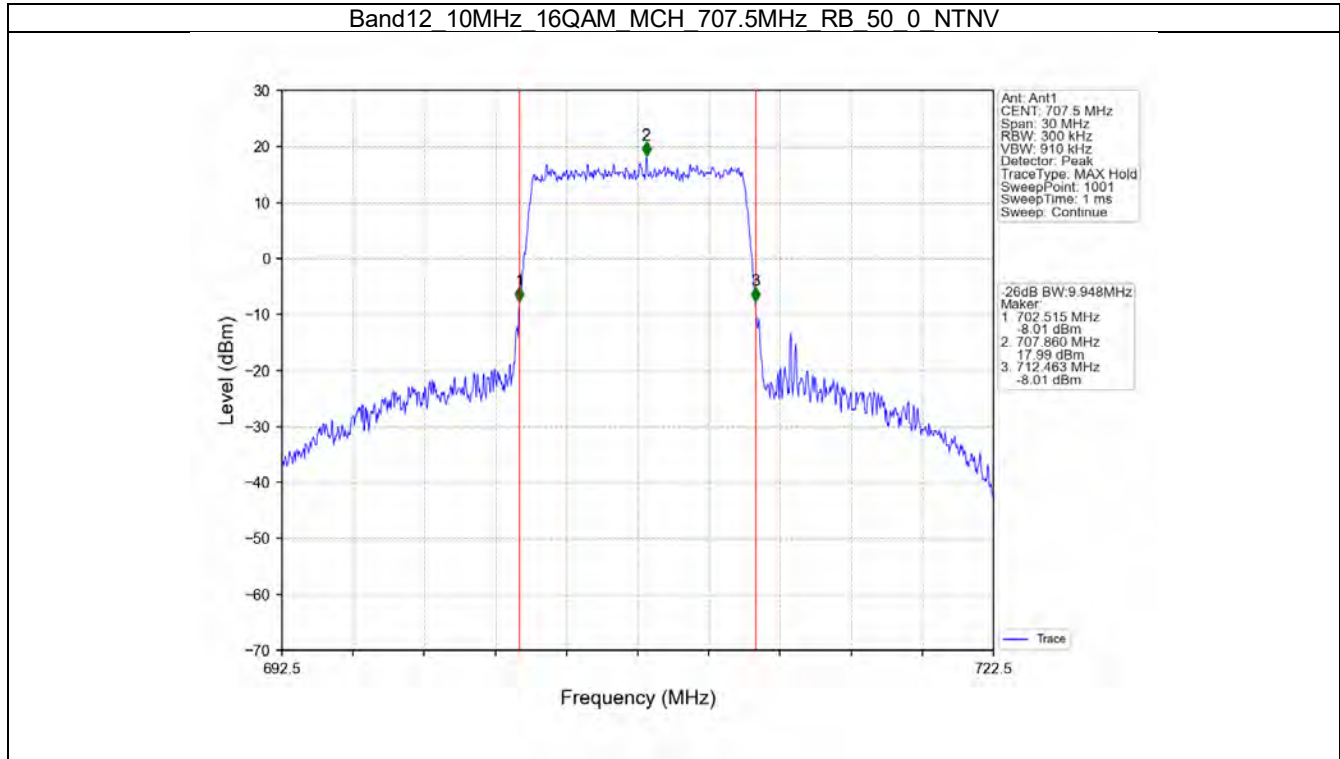


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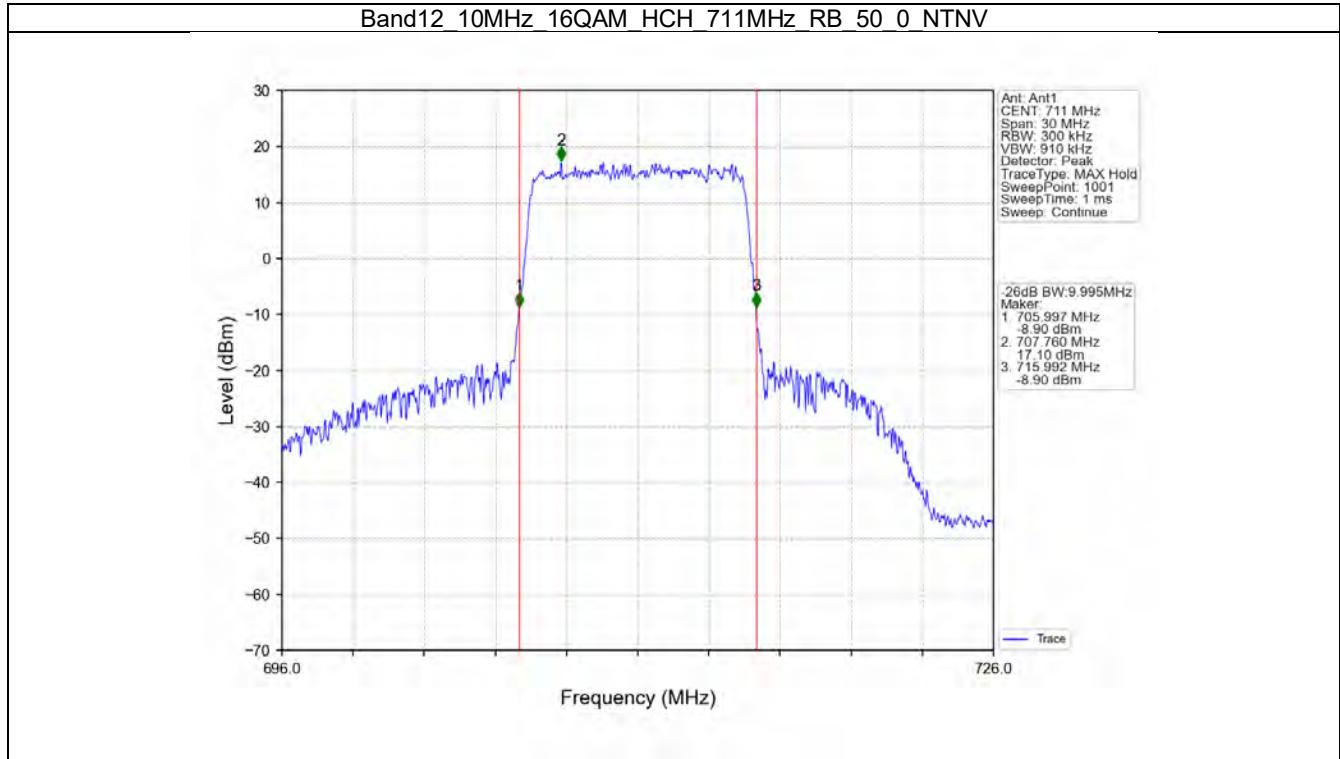
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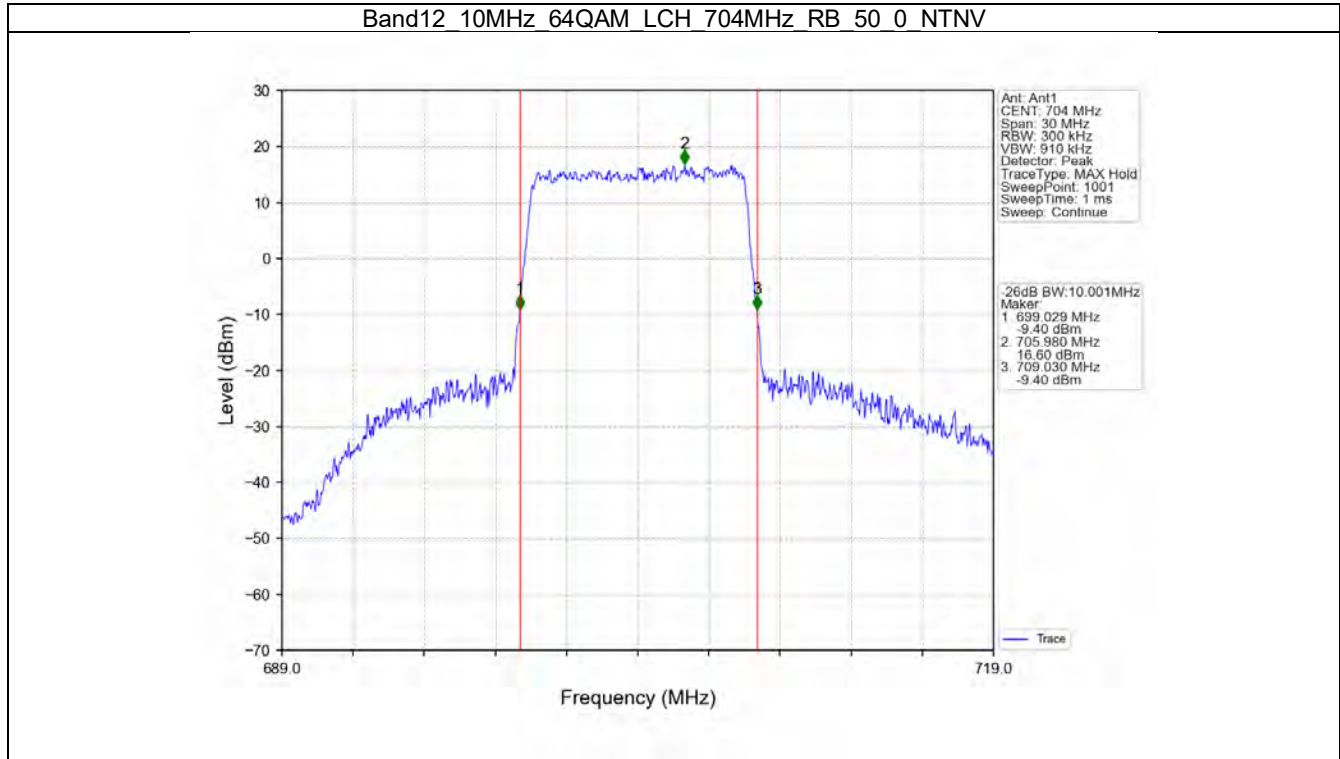
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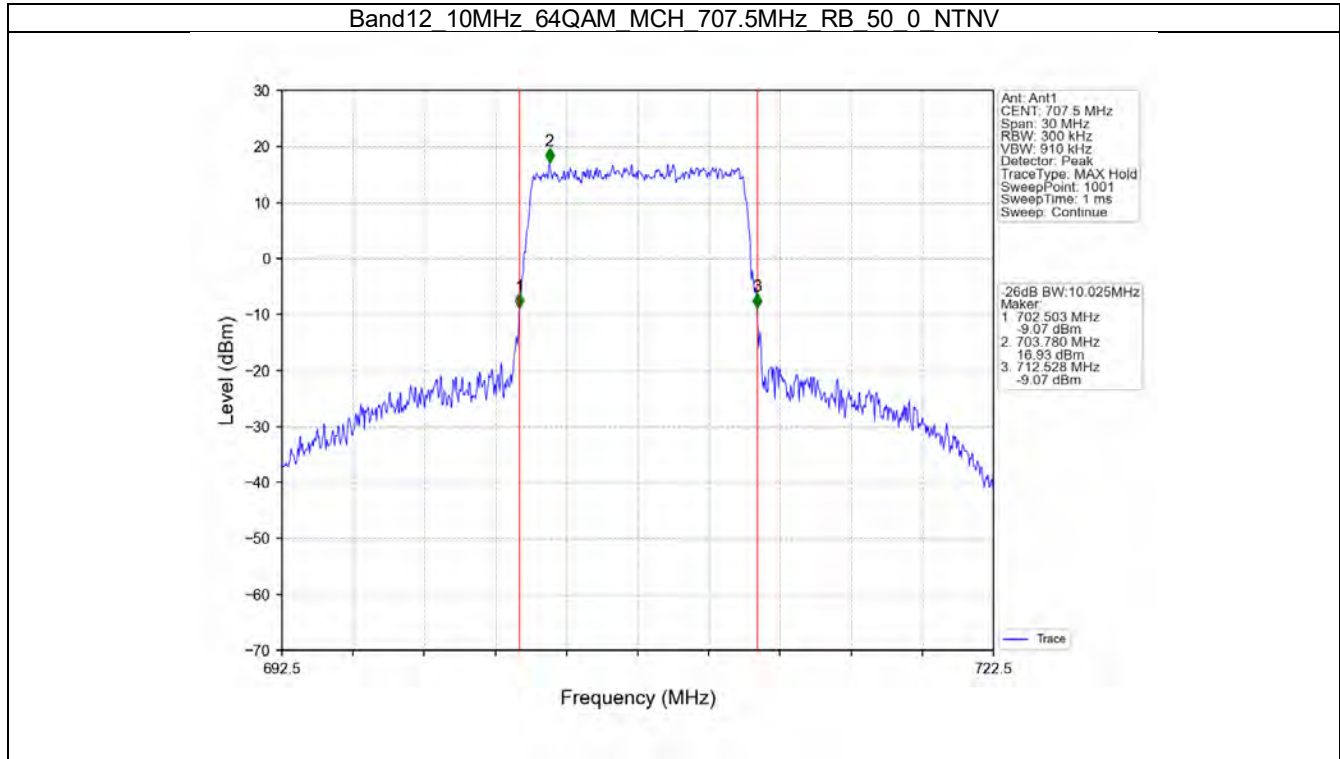
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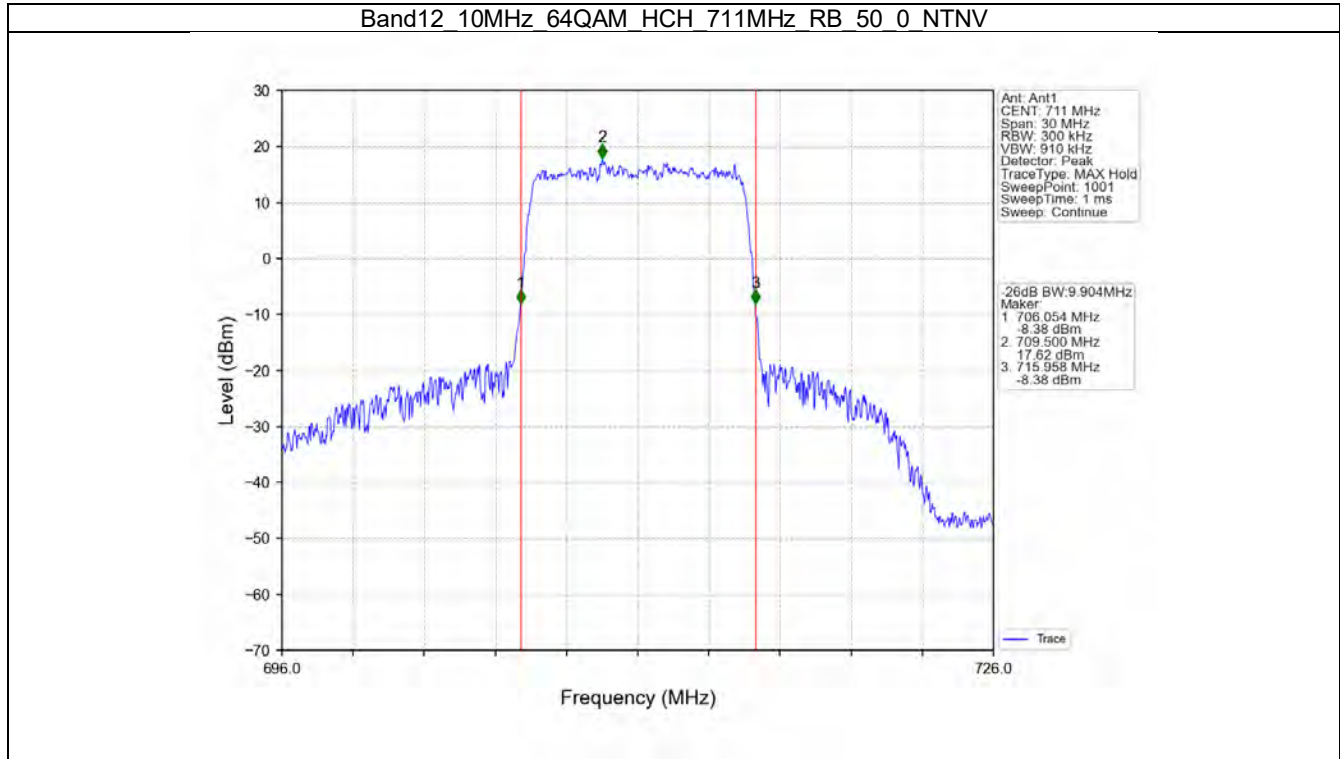


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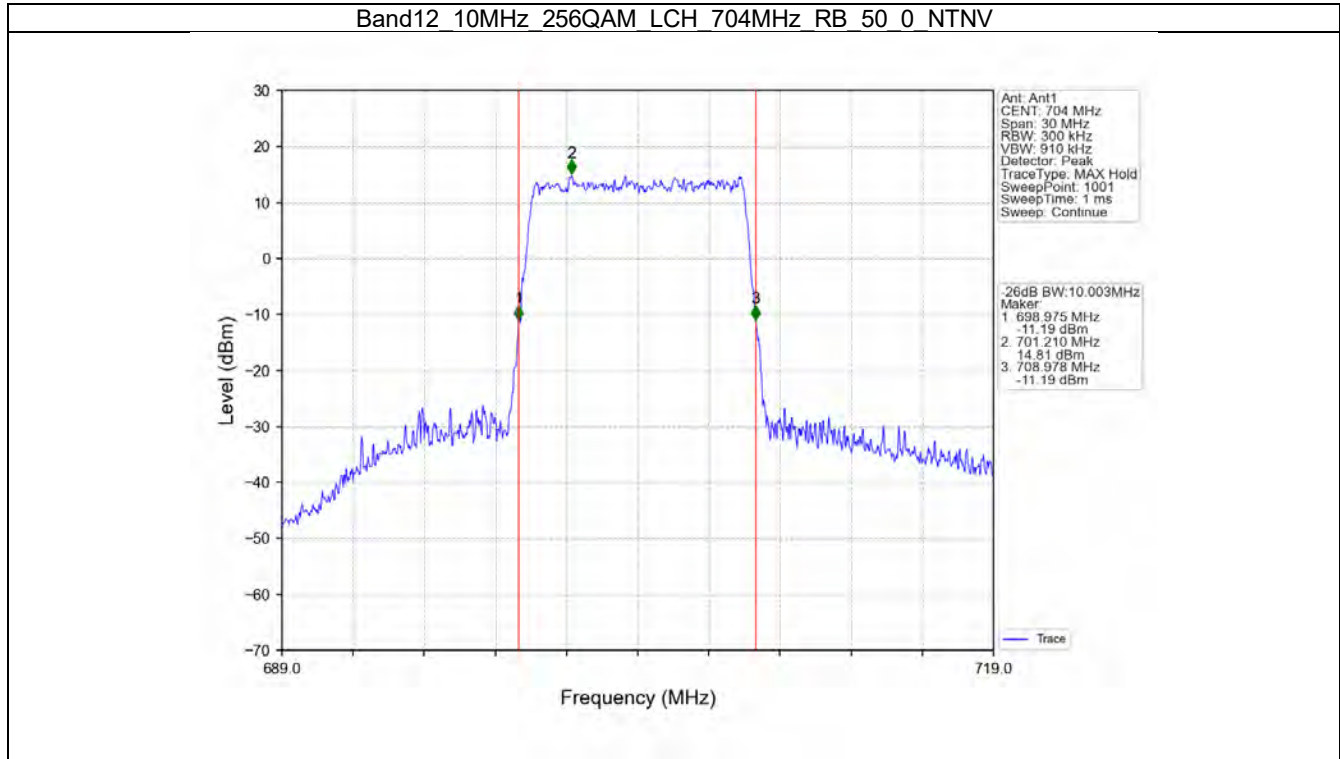
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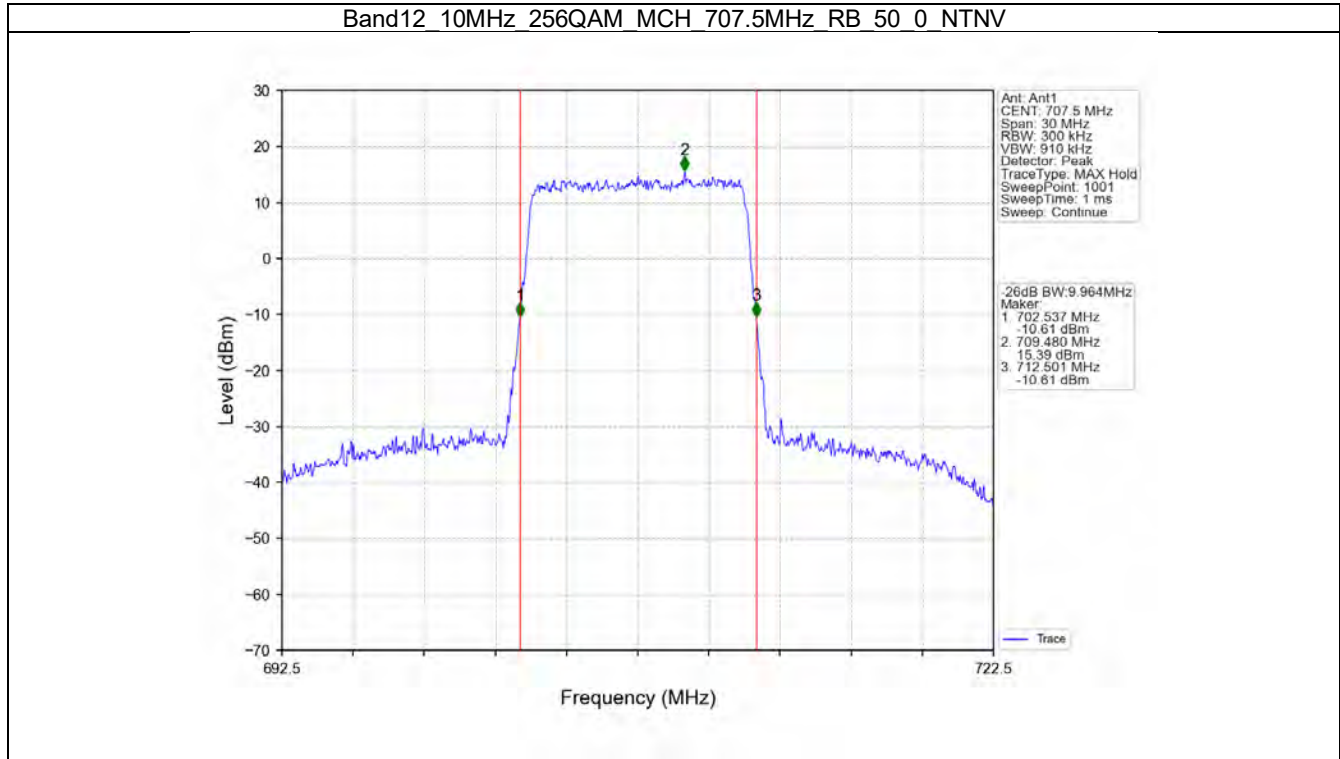
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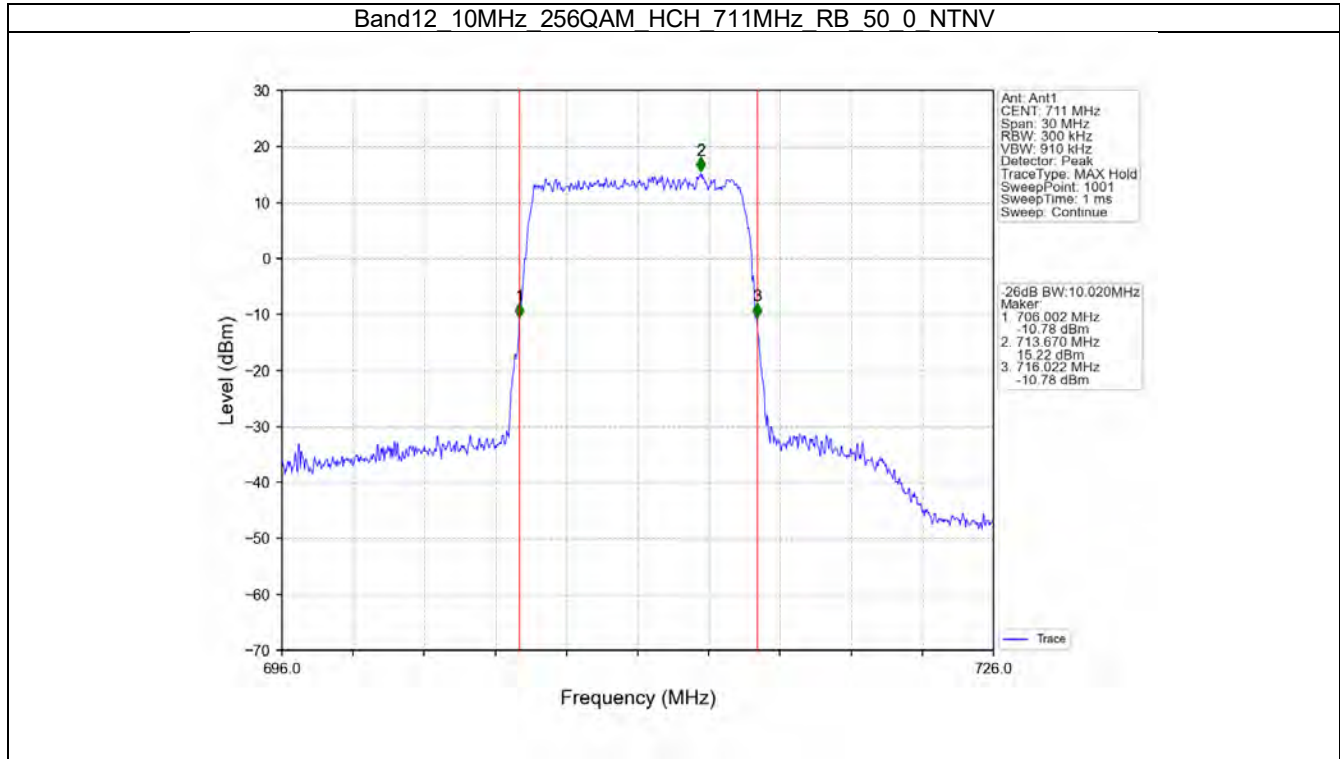
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4. Peak-Average Ratio

4.1 B12_1.4MHz

4.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	6.25	<=13	Pass
	707.5	6	0	6.18	<=13	Pass
	715.3	6	0	6.11	<=13	Pass
16QAM	699.7	6	0	6.23	<=13	Pass
	707.5	6	0	6.19	<=13	Pass
	715.3	6	0	6.08	<=13	Pass
64QAM	699.7	6	0	6.22	<=13	Pass
	707.5	6	0	6.18	<=13	Pass
	715.3	6	0	6.09	<=13	Pass
256QAM	699.7	6	0	6.48	<=13	Pass
	707.5	6	0	6.69	<=13	Pass
	715.3	6	0	6.77	<=13	Pass



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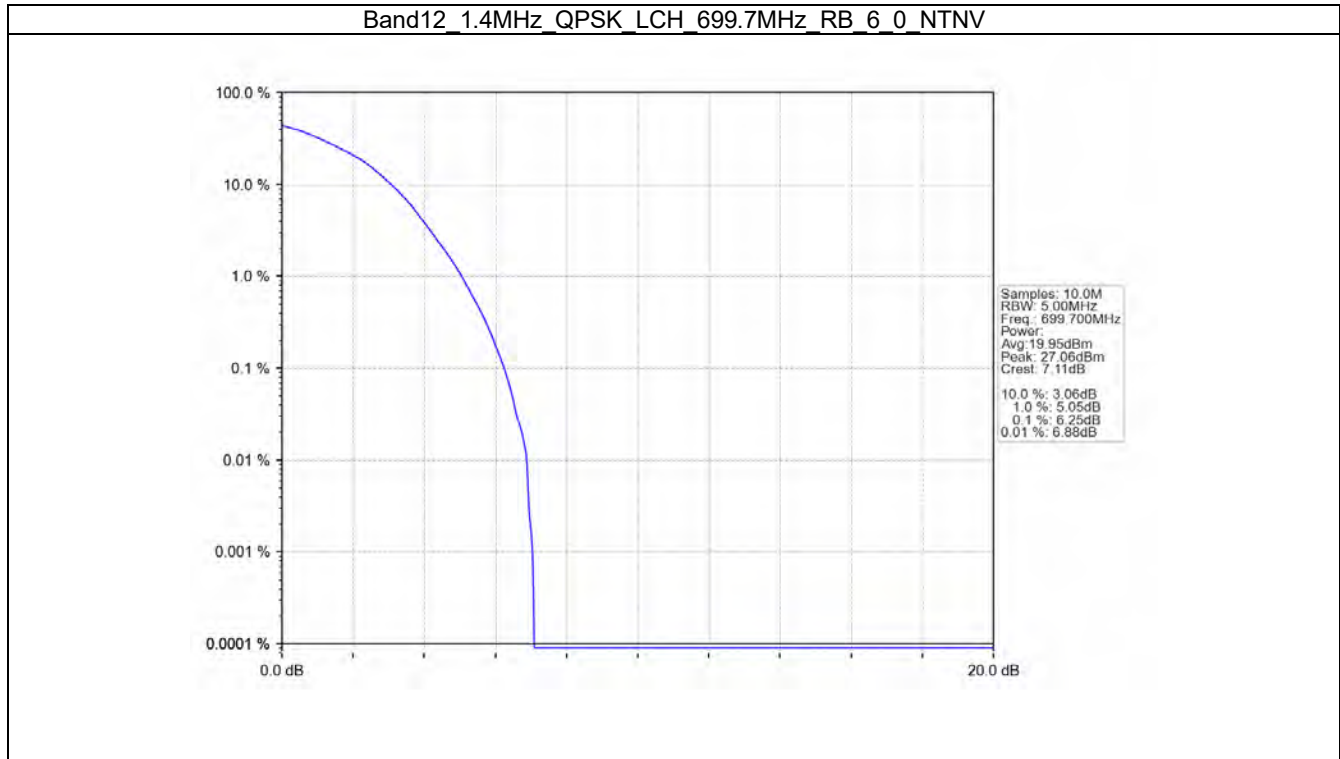
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4.1.2 Test Graph



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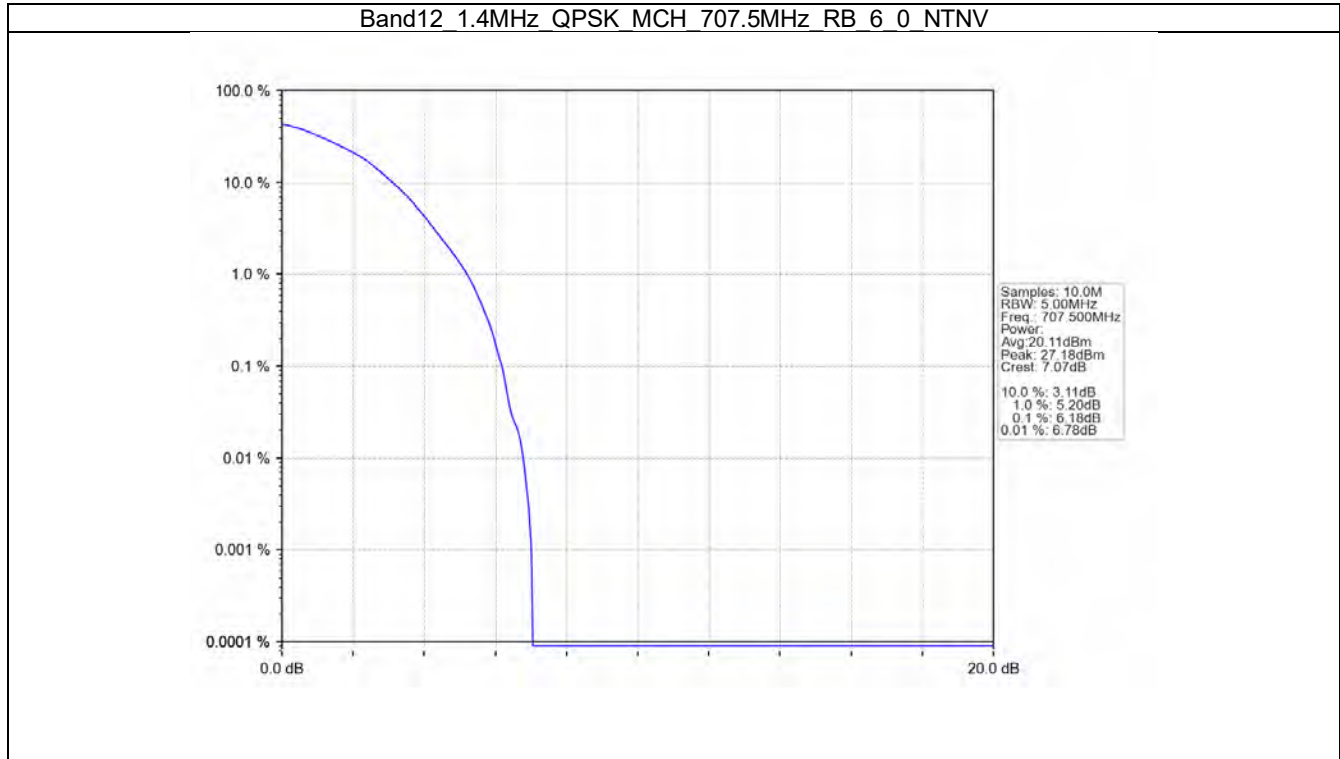
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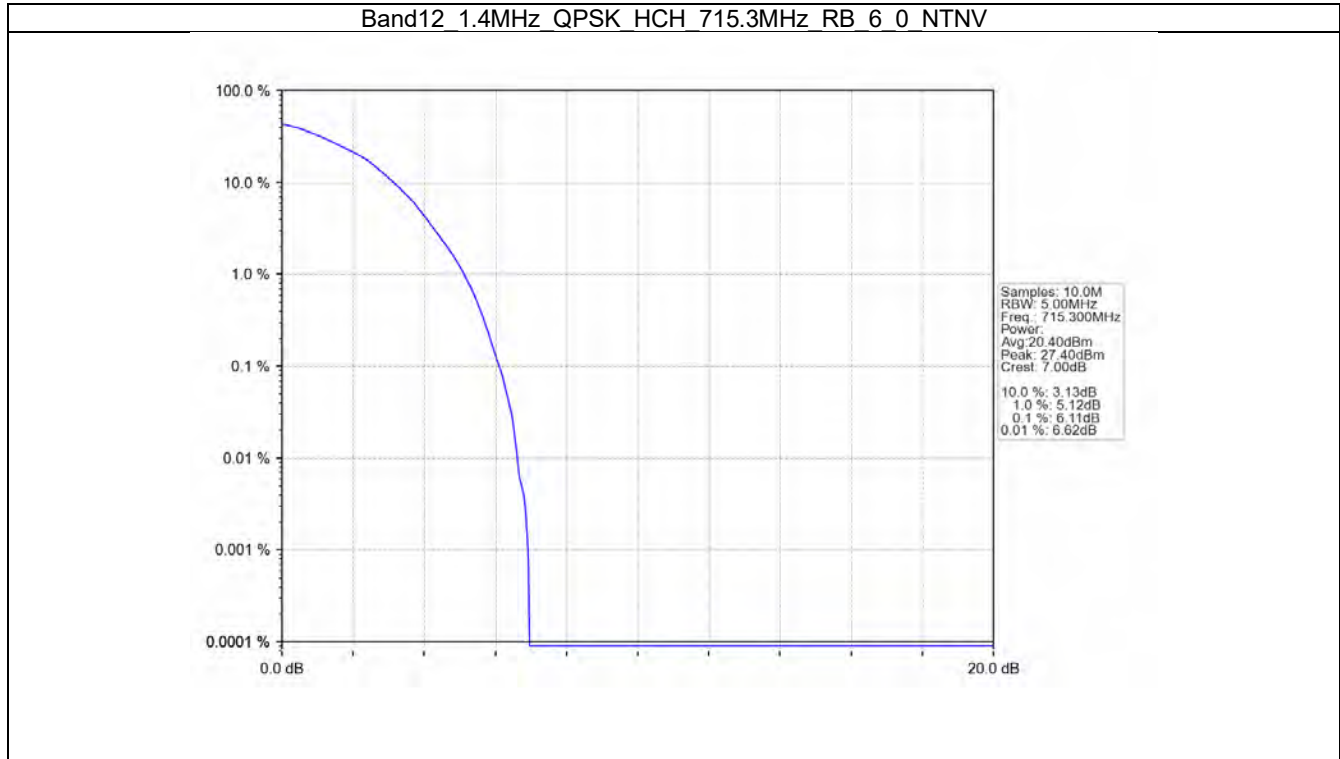
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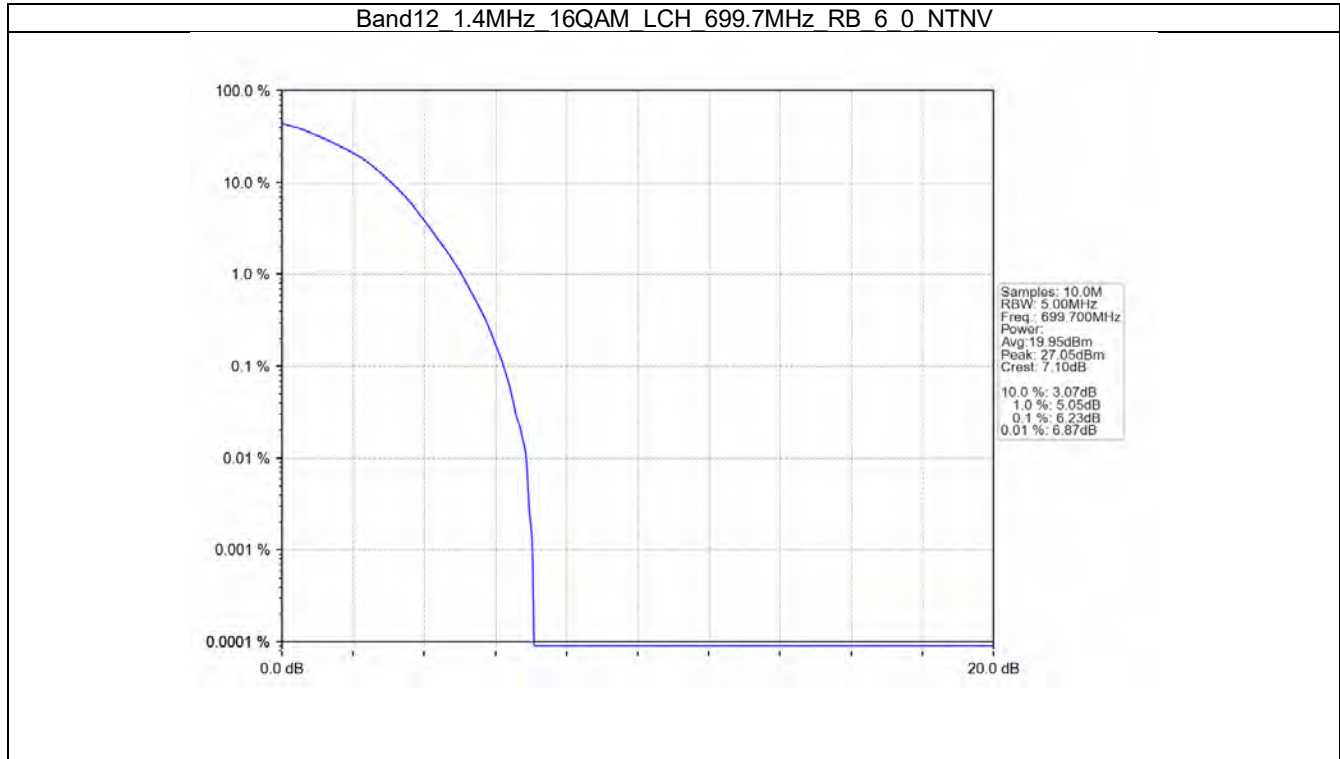
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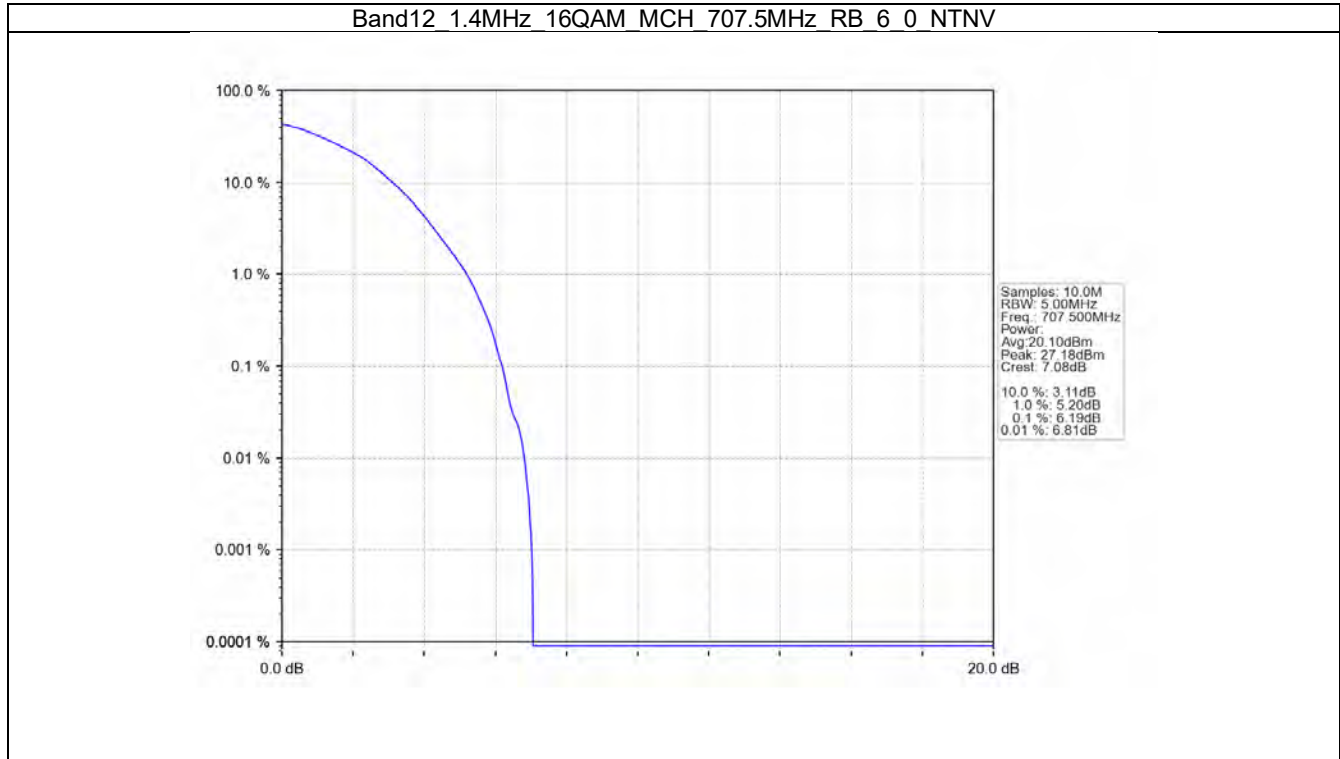
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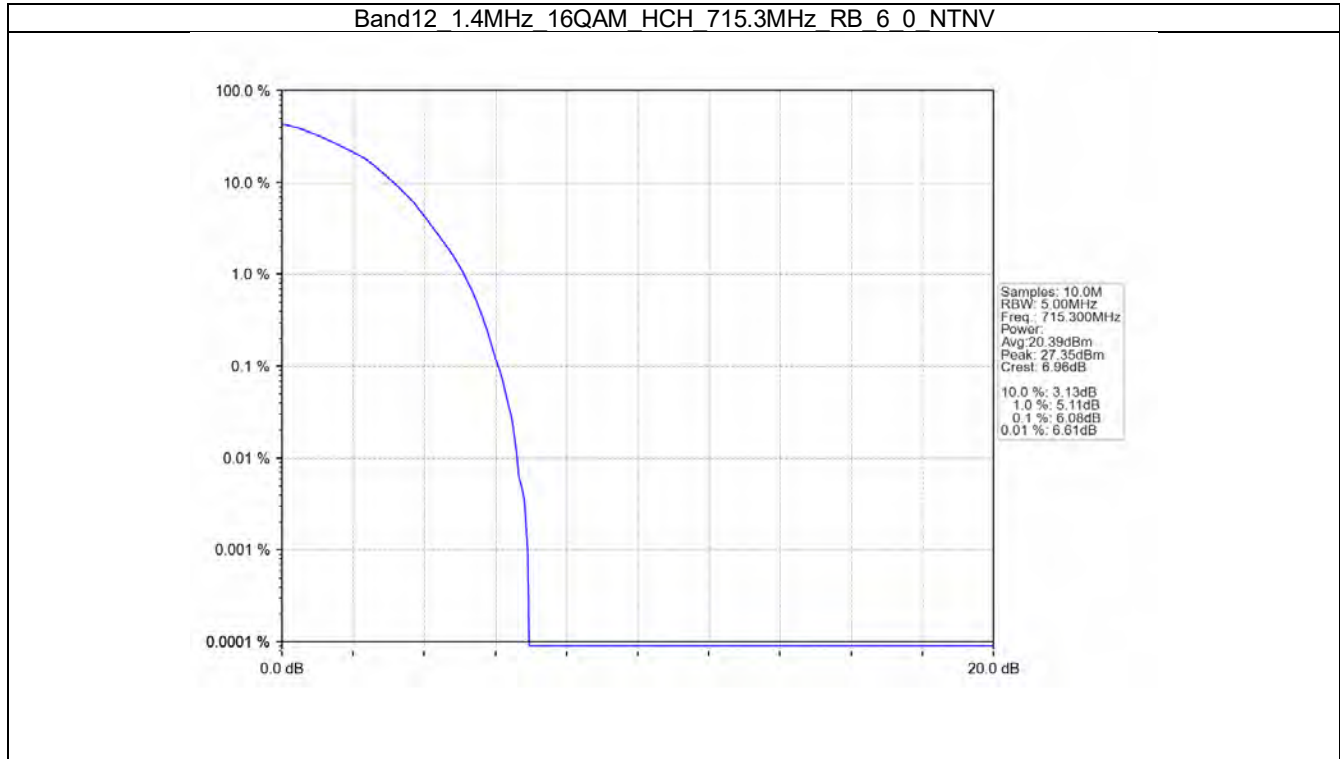
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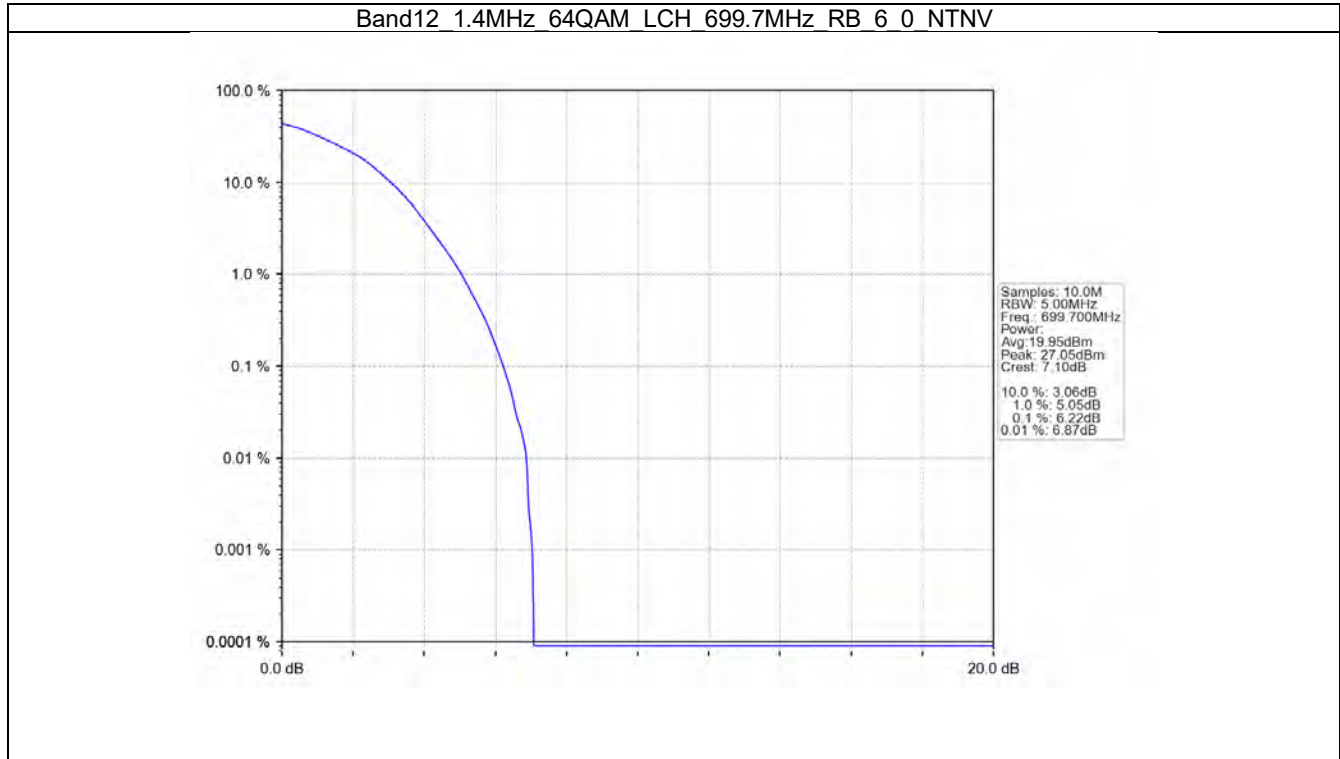
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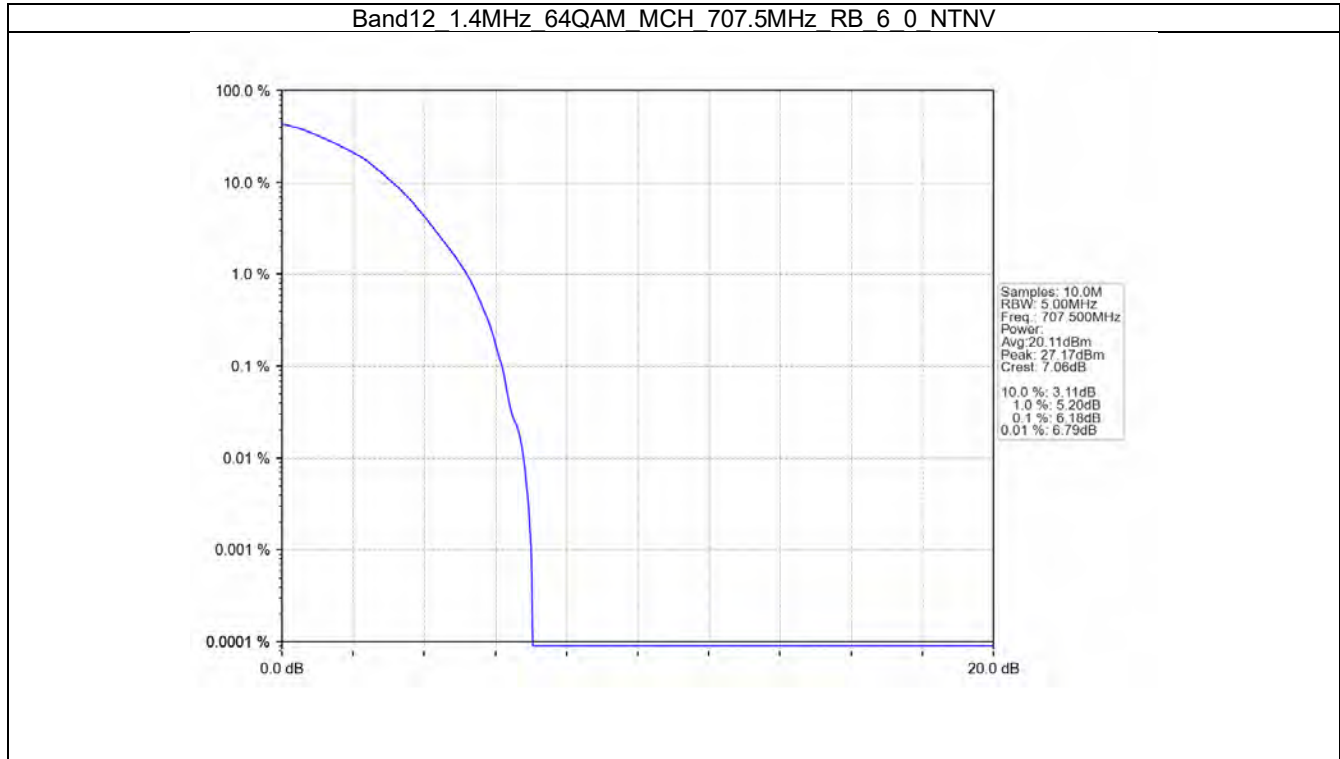
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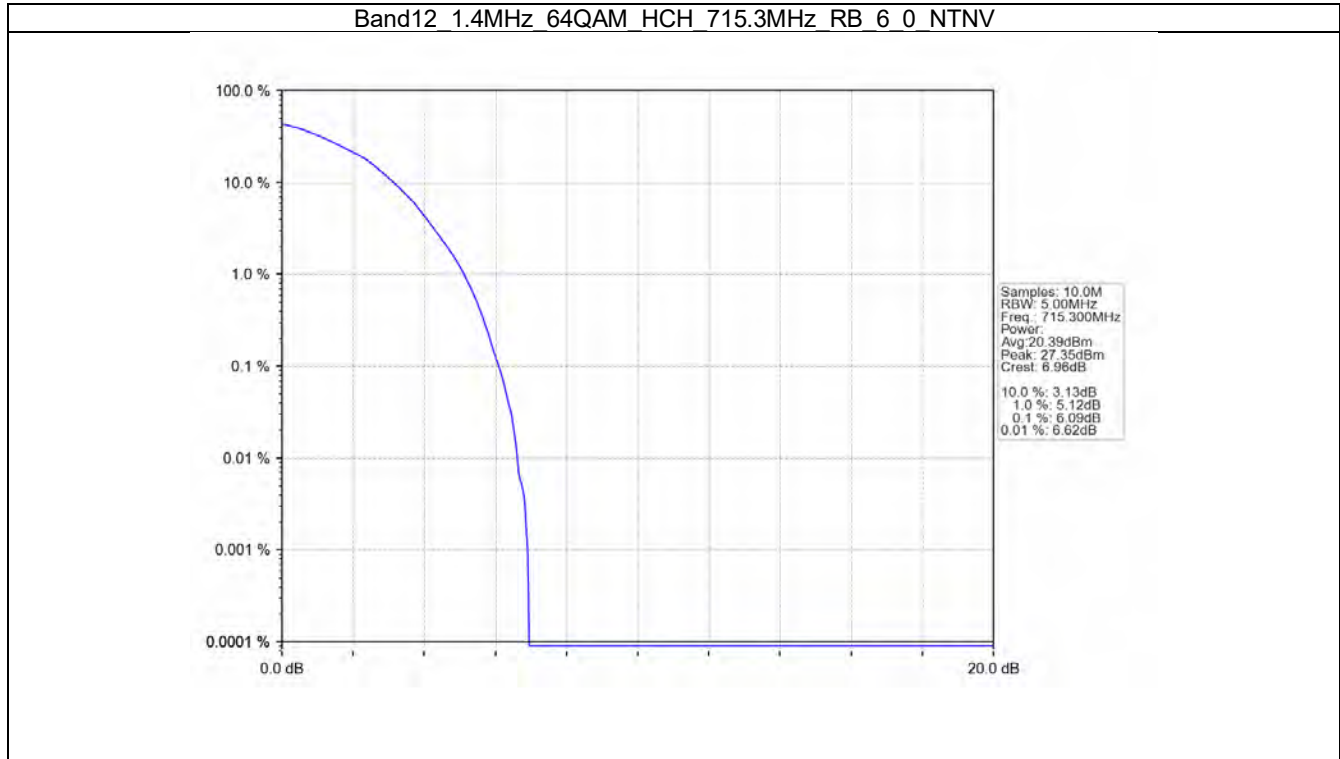
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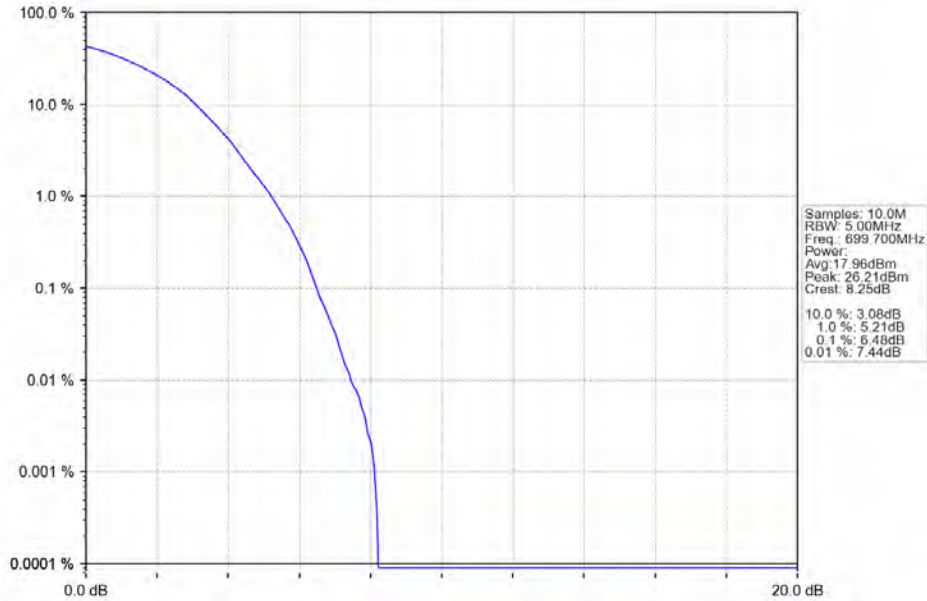


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Band12 1.4MHz 256QAM LCH 699.7MHz RB 6 0 NTNV



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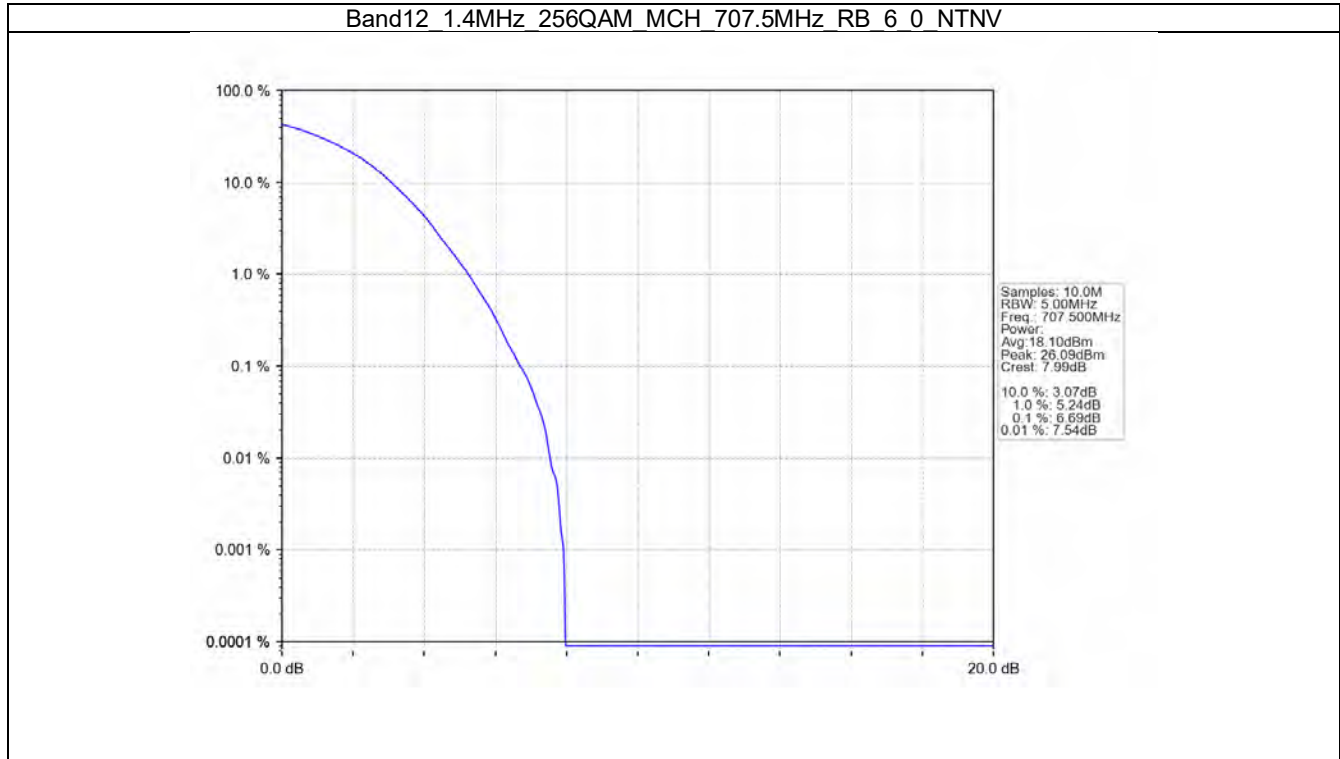
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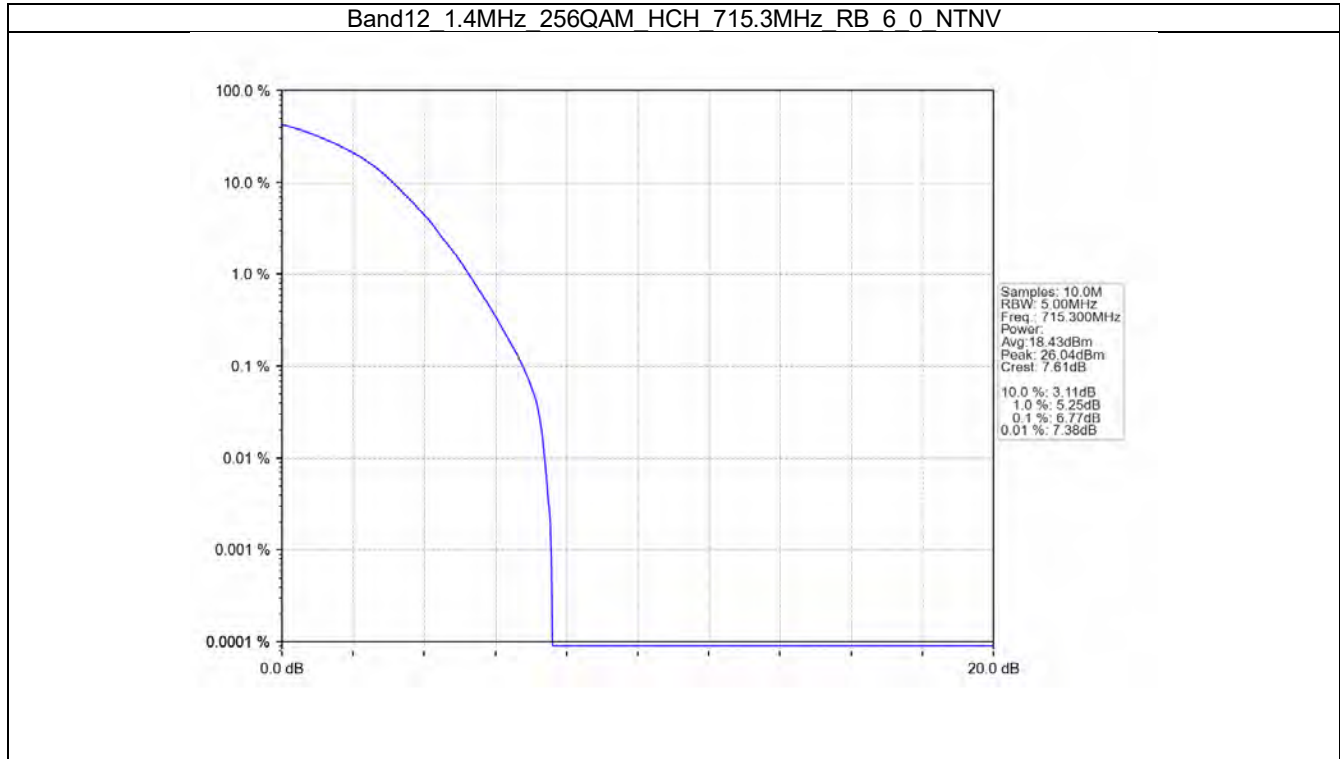
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4.2 B12_3MHz

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	6.36	<=13	Pass
	707.5	15	0	6.23	<=13	Pass
	714.5	15	0	6.26	<=13	Pass
16QAM	700.5	15	0	6.35	<=13	Pass
	707.5	15	0	6.22	<=13	Pass
	714.5	15	0	6.27	<=13	Pass
64QAM	700.5	15	0	6.35	<=13	Pass
	707.5	15	0	6.22	<=13	Pass
	714.5	15	0	6.26	<=13	Pass
256QAM	700.5	15	0	6.68	<=13	Pass
	707.5	15	0	6.64	<=13	Pass
	714.5	15	0	6.80	<=13	Pass



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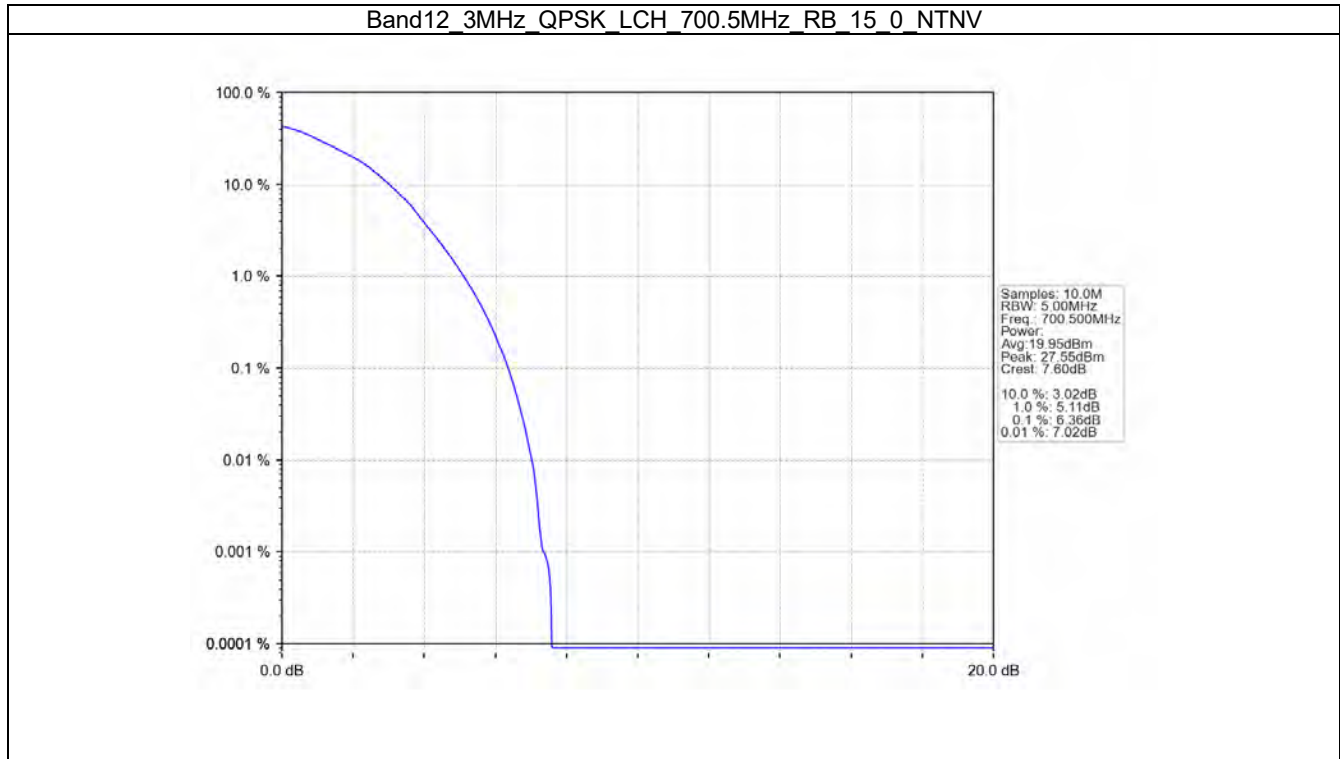
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4.2.2 Test Graph



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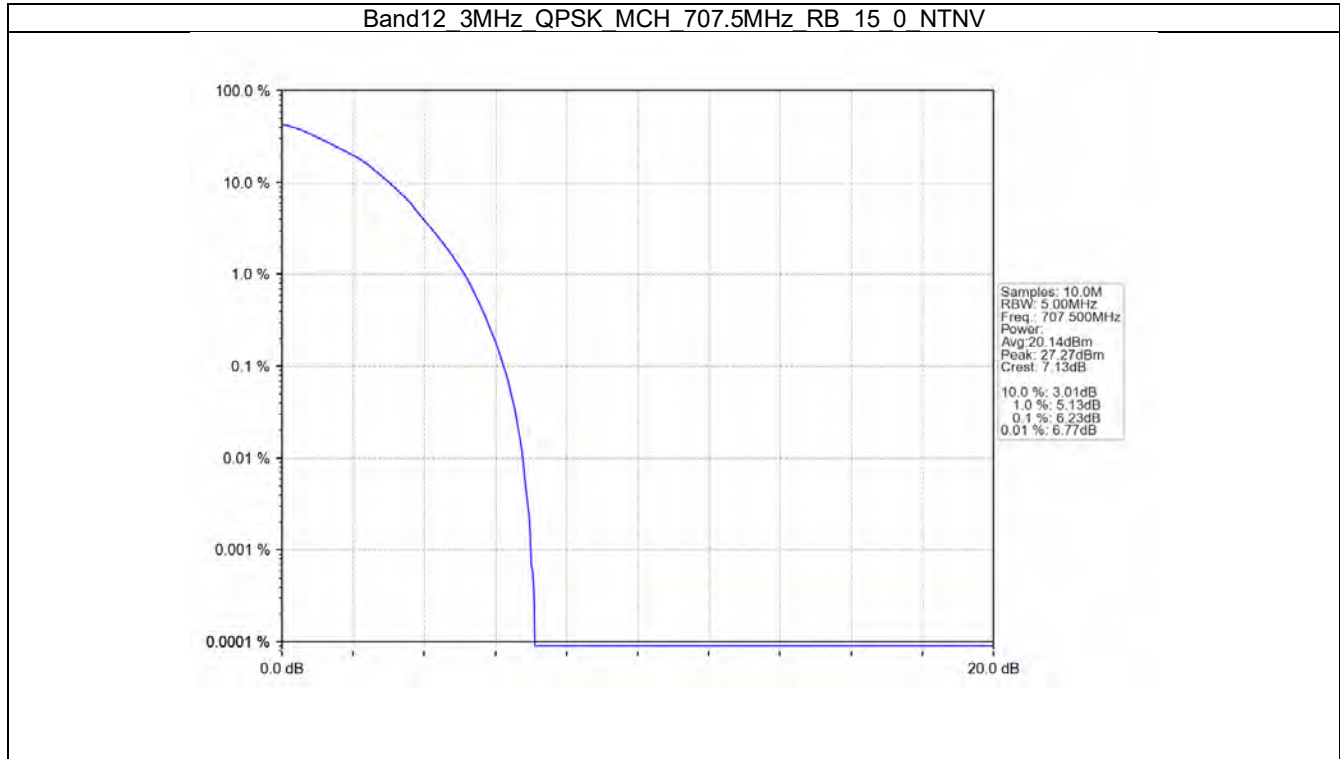
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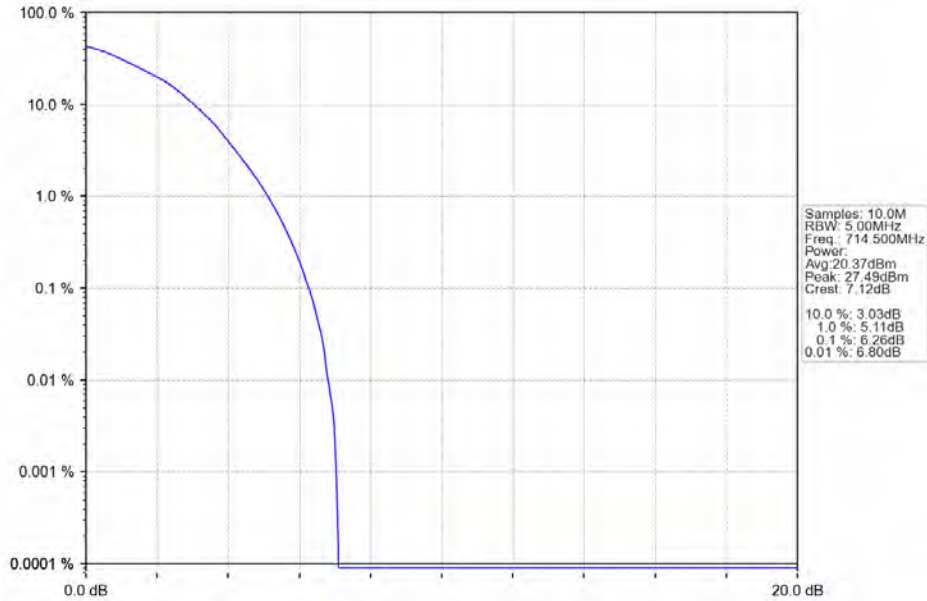
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Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTV



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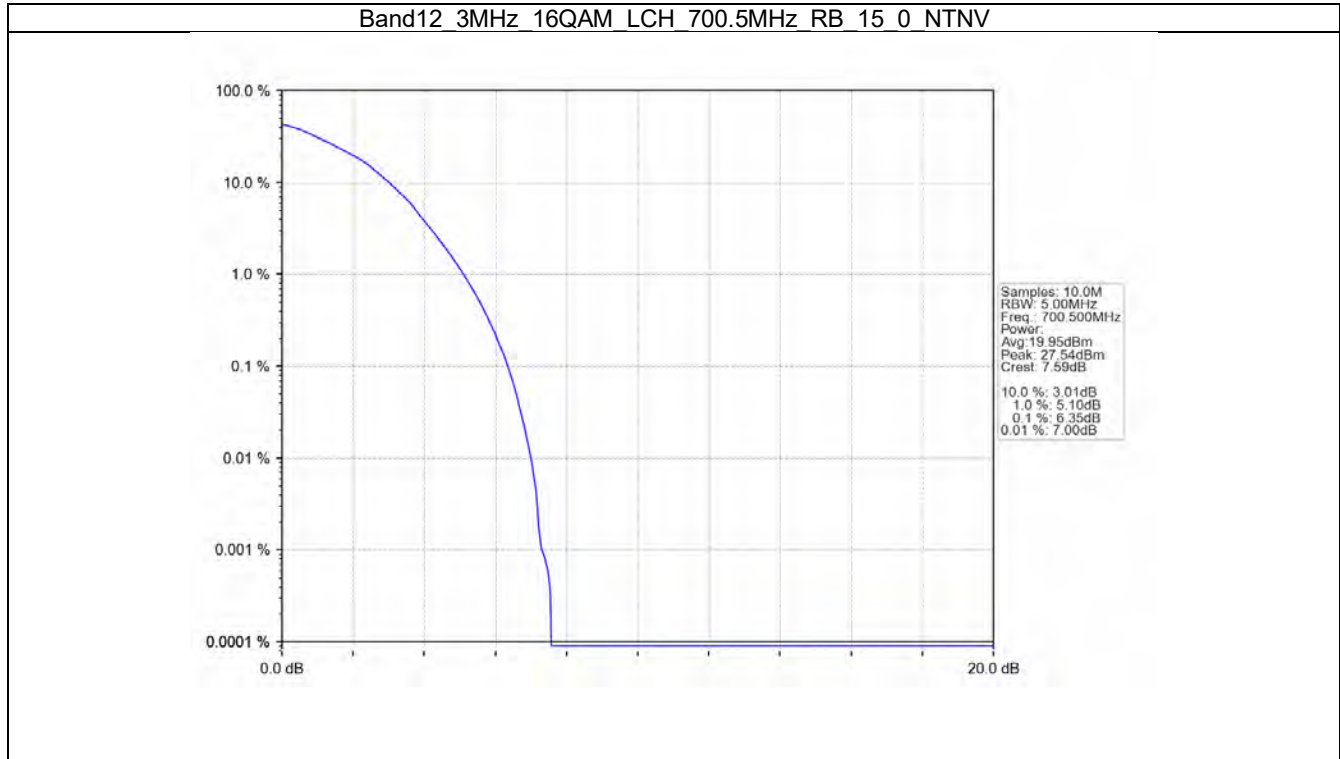
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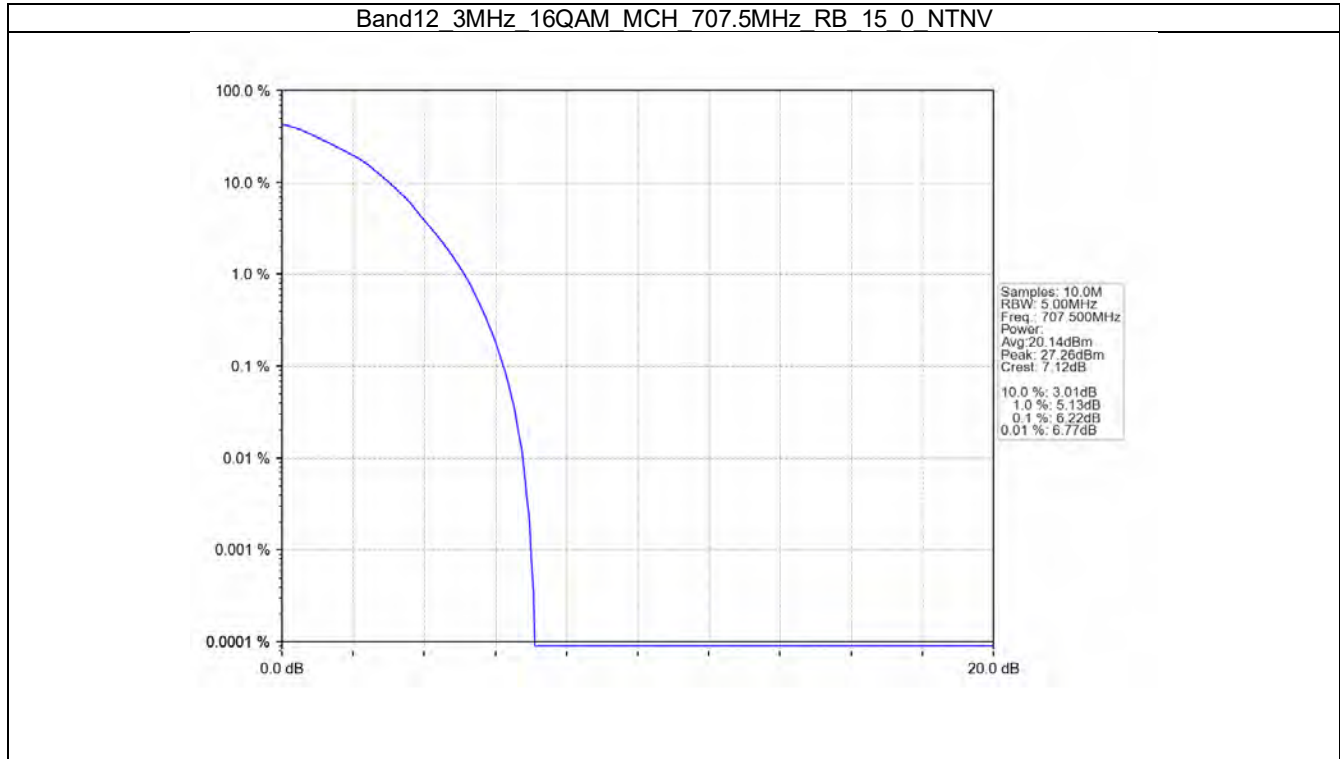
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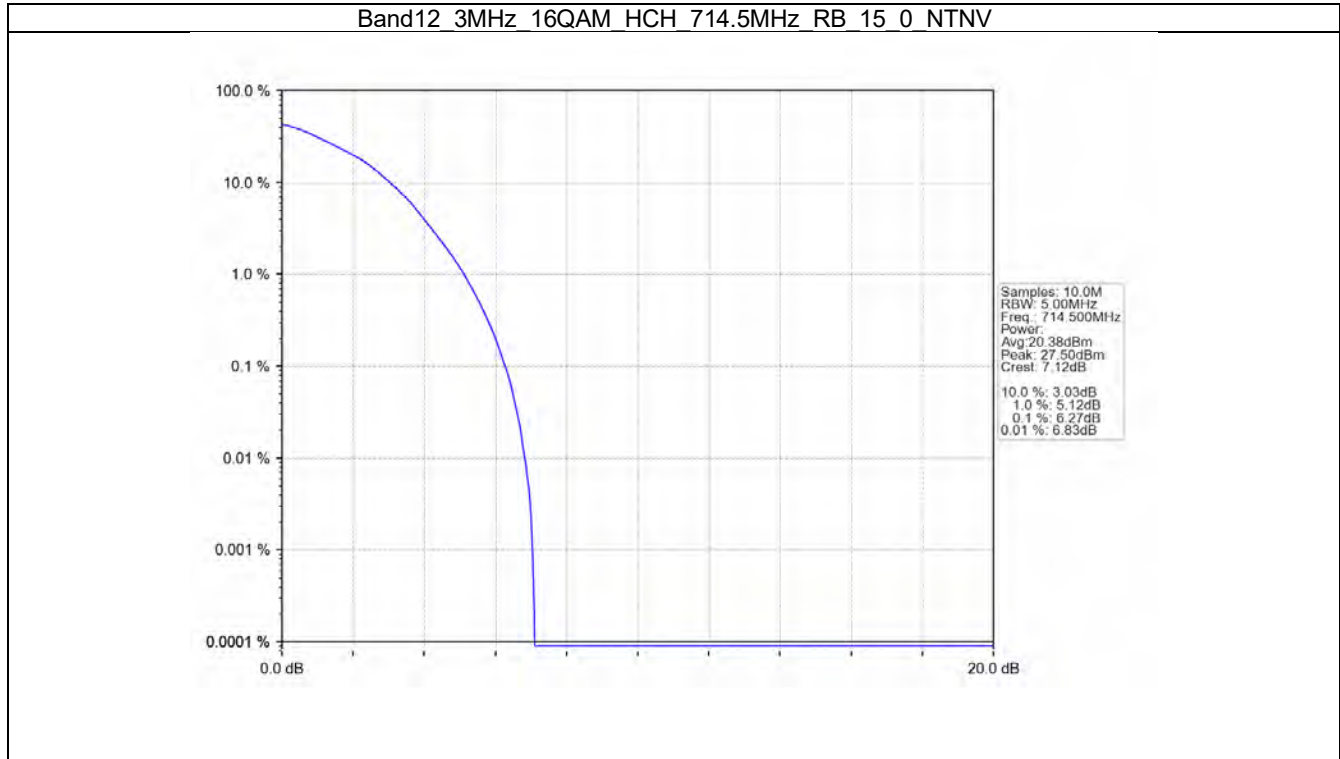
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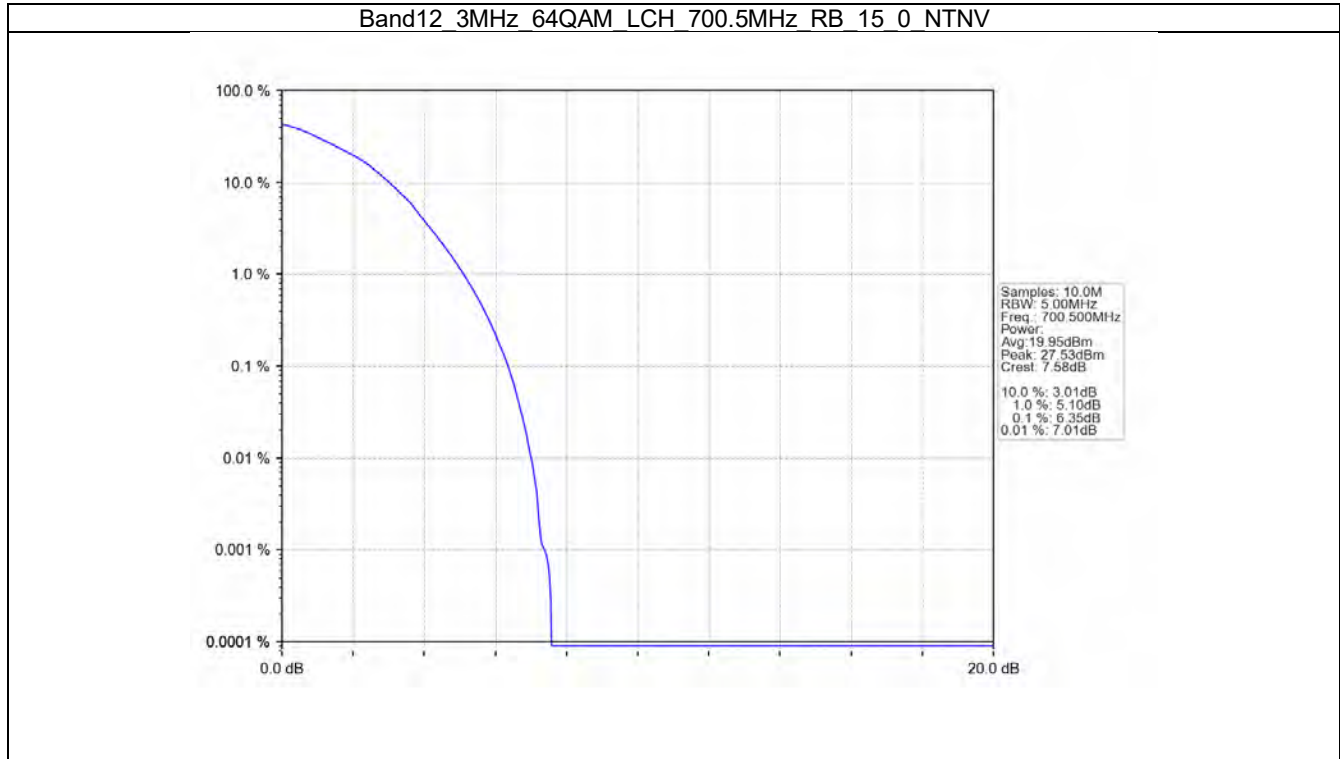
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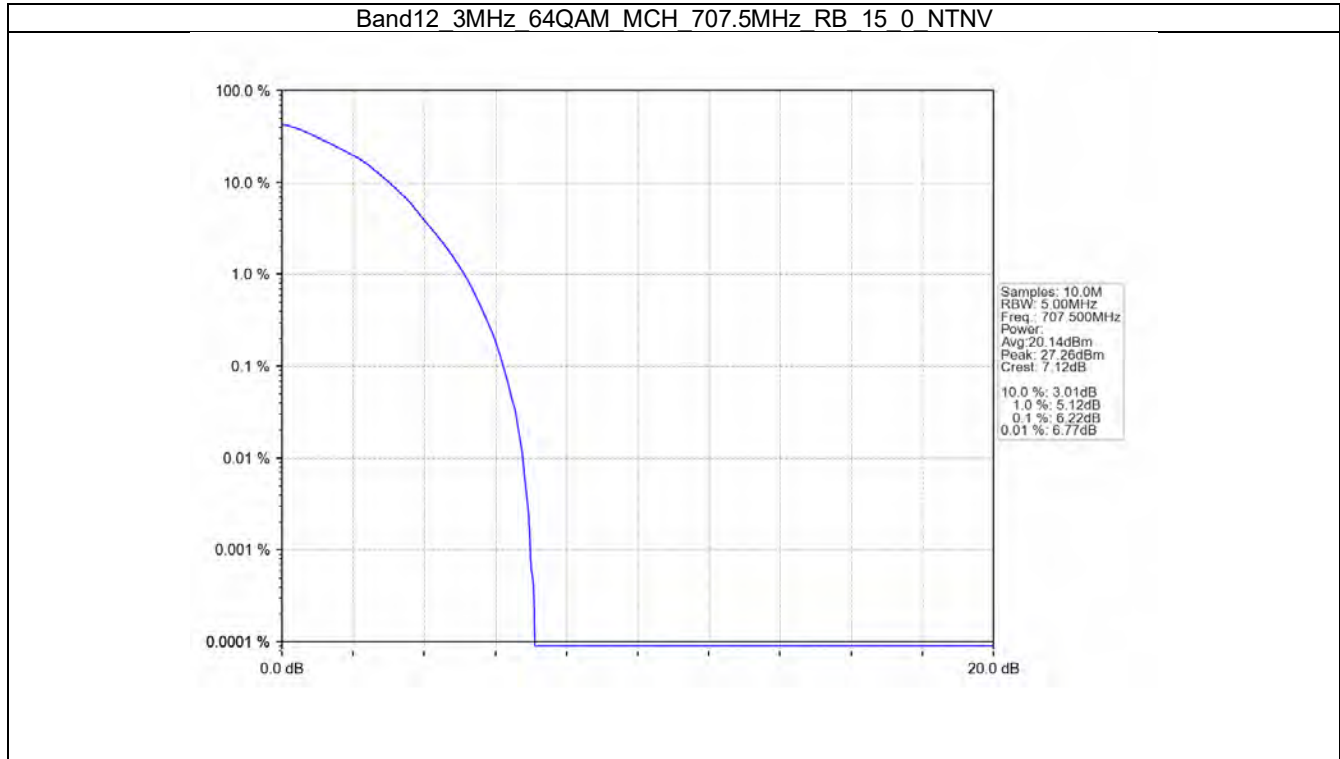
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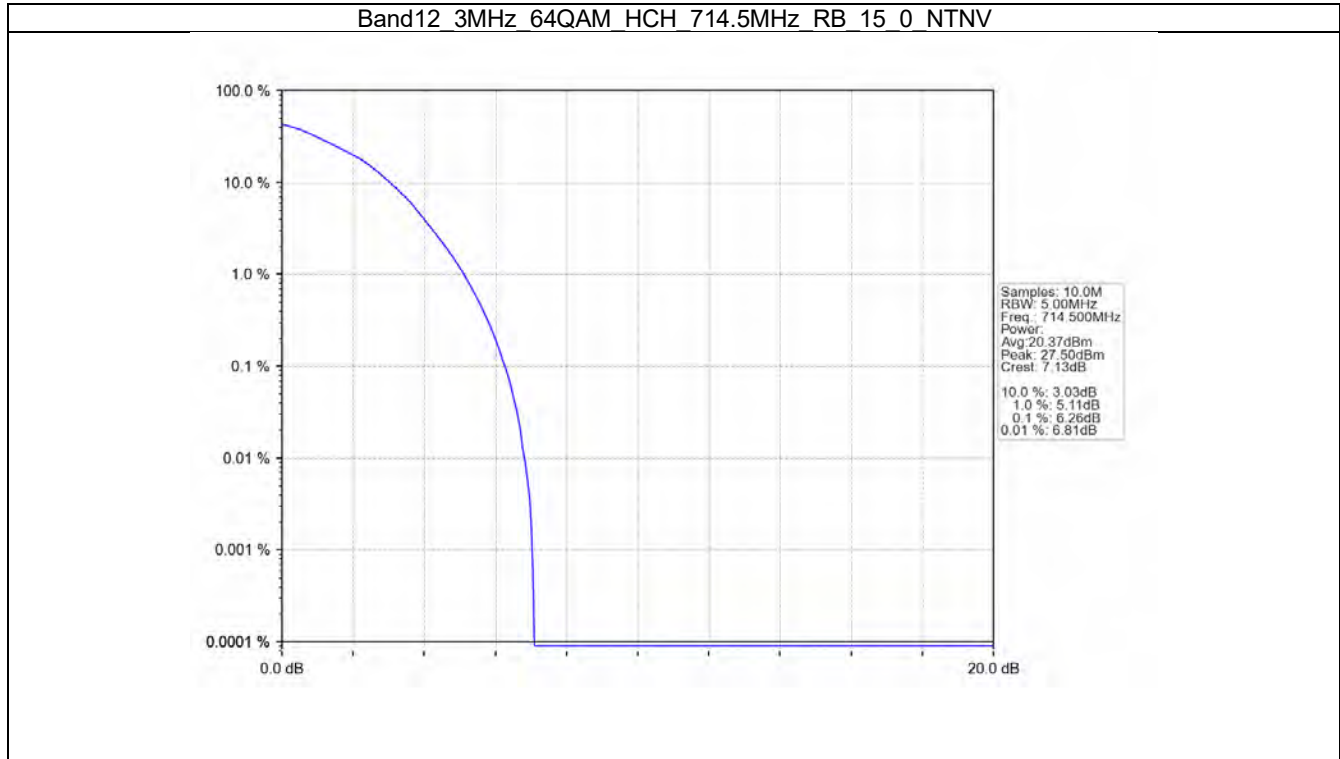
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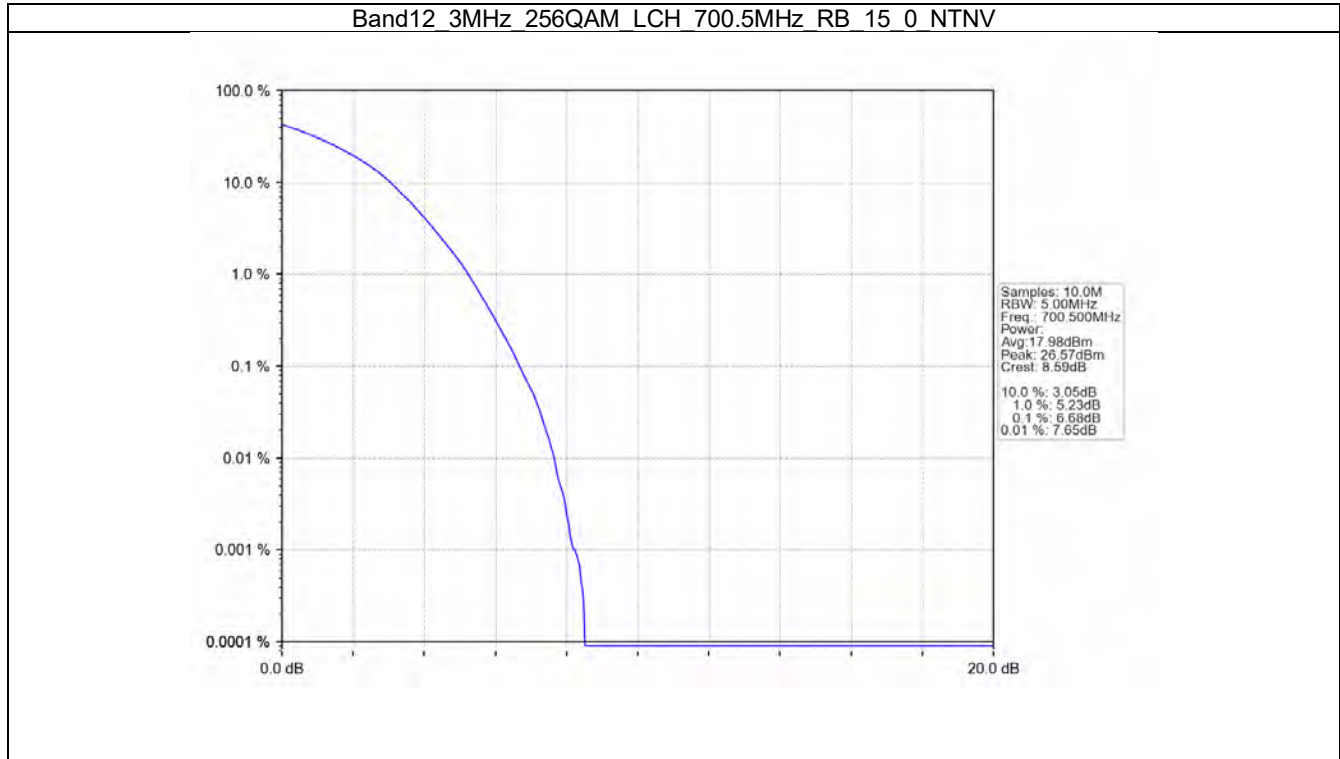
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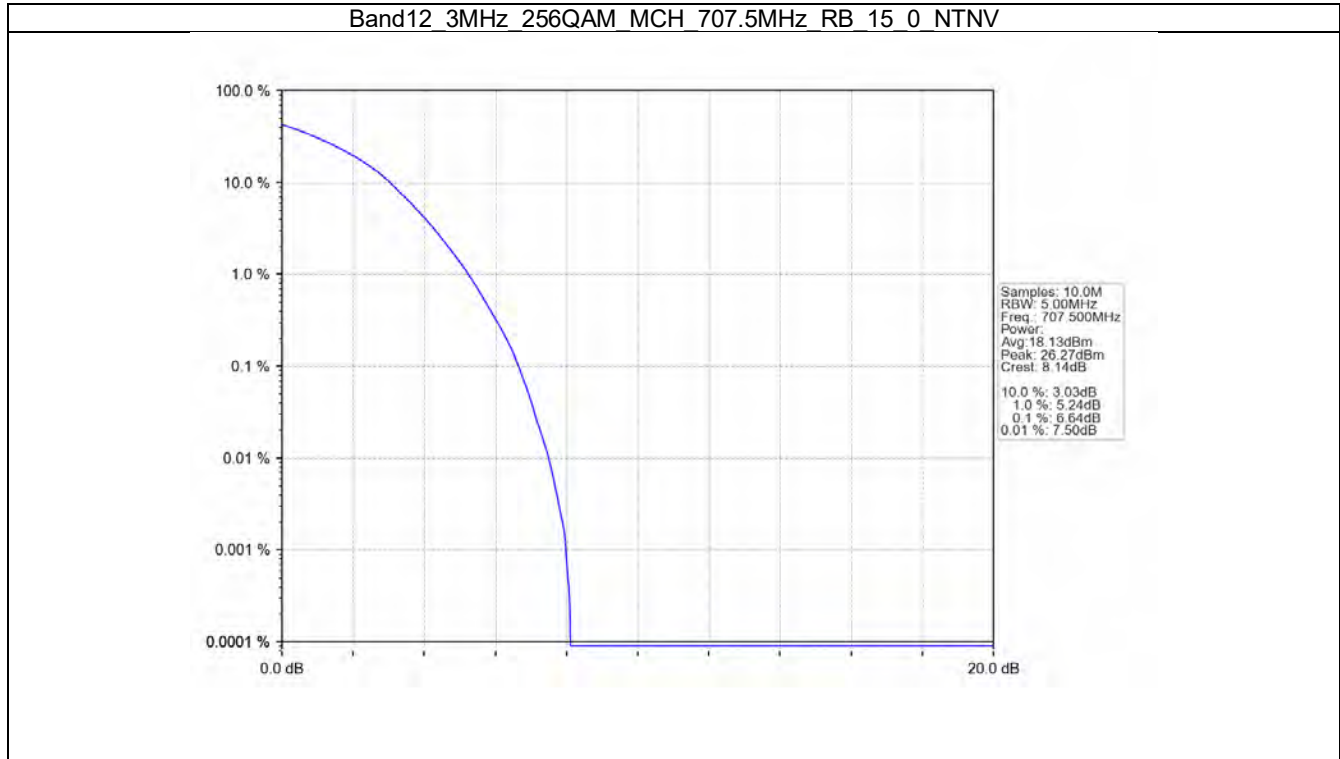
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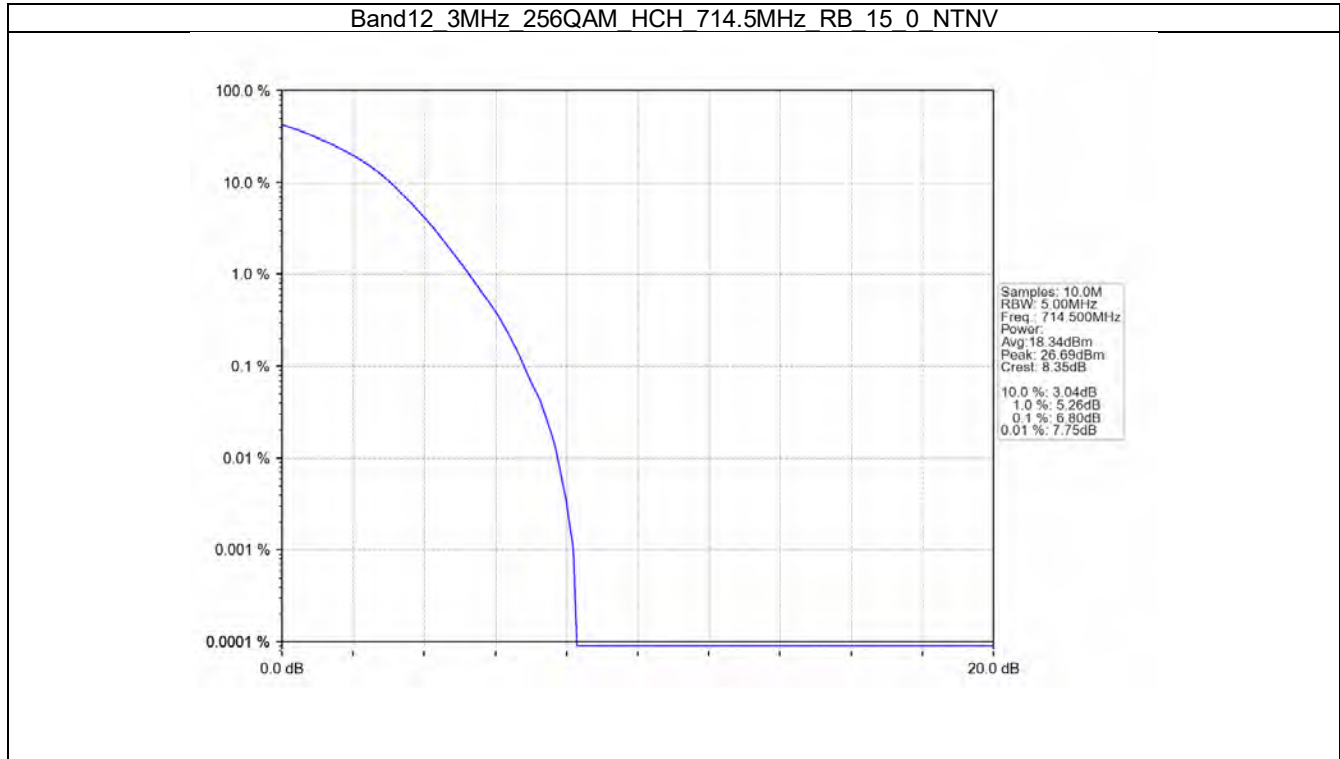
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4.3 B12_5MHz

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	6.34	<=13	Pass
	707.5	25	0	6.29	<=13	Pass
	713.5	25	0	6.35	<=13	Pass
16QAM	701.5	25	0	6.34	<=13	Pass
	707.5	25	0	6.31	<=13	Pass
	713.5	25	0	6.35	<=13	Pass
64QAM	701.5	25	0	6.37	<=13	Pass
	707.5	25	0	6.29	<=13	Pass
	713.5	25	0	6.34	<=13	Pass
256QAM	701.5	25	0	6.57	<=13	Pass
	707.5	25	0	6.72	<=13	Pass
	713.5	25	0	6.76	<=13	Pass



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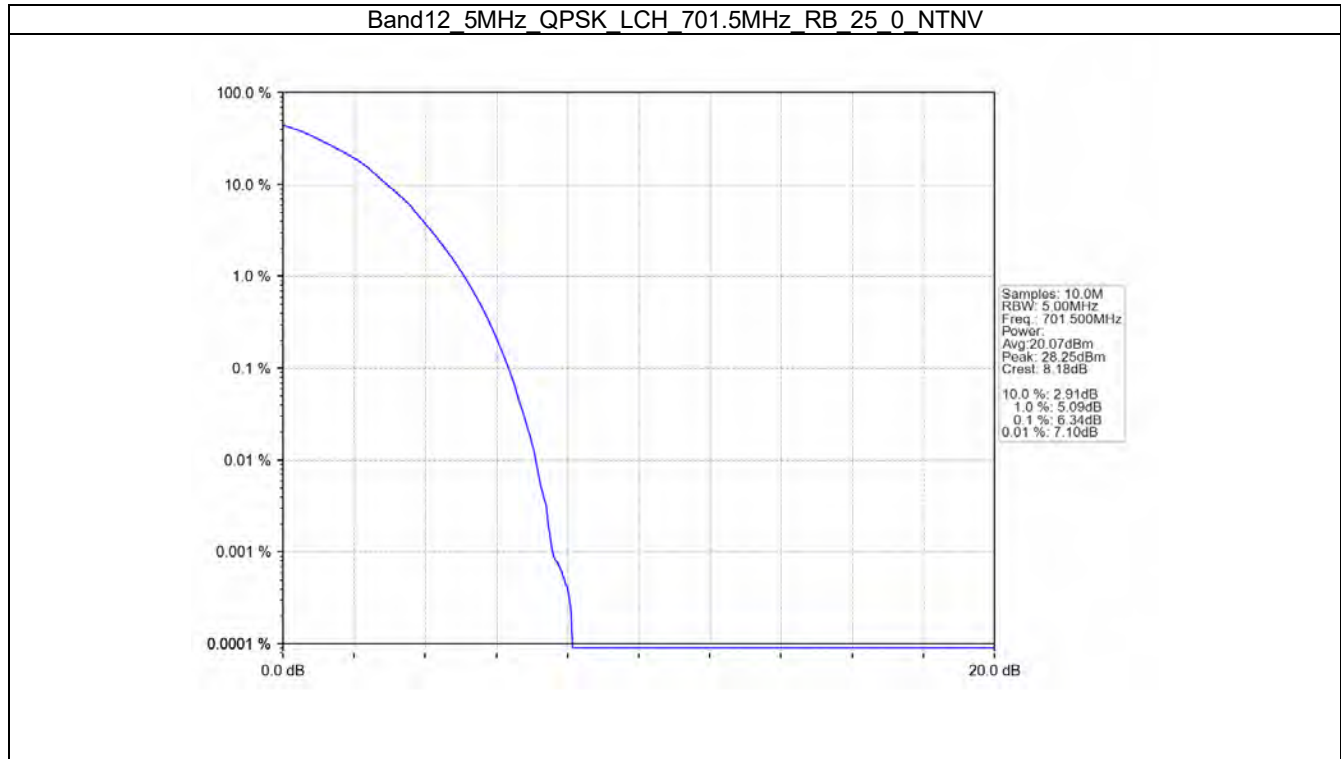
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4.3.2 Test Graph



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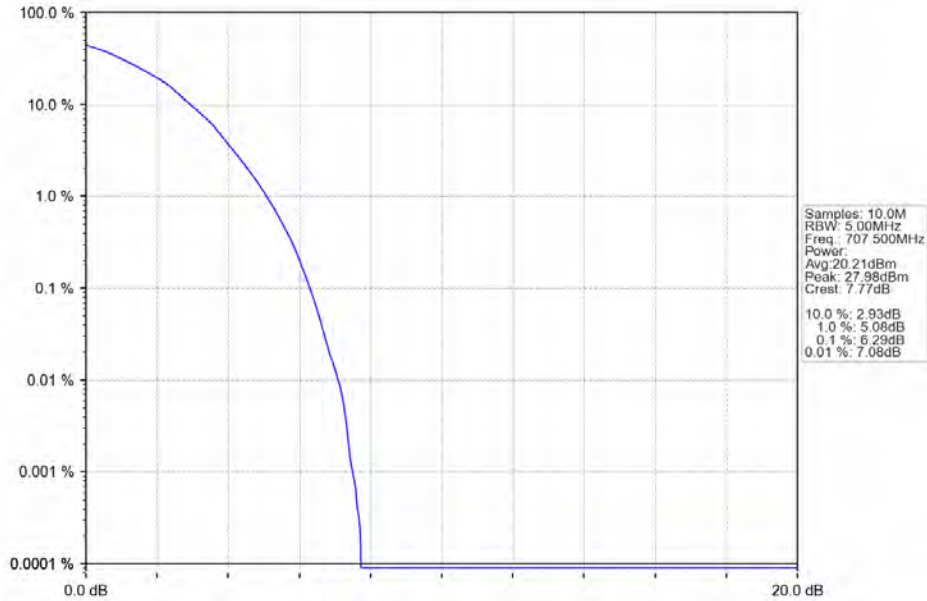
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Band12 5MHz QPSK MCH 707.5MHz RB 25 0 NTV



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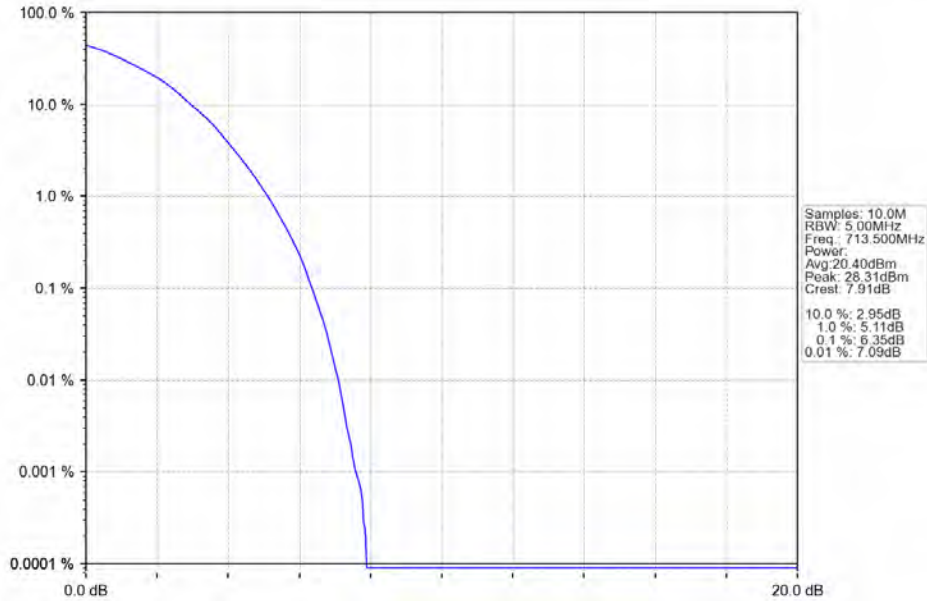
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Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTV



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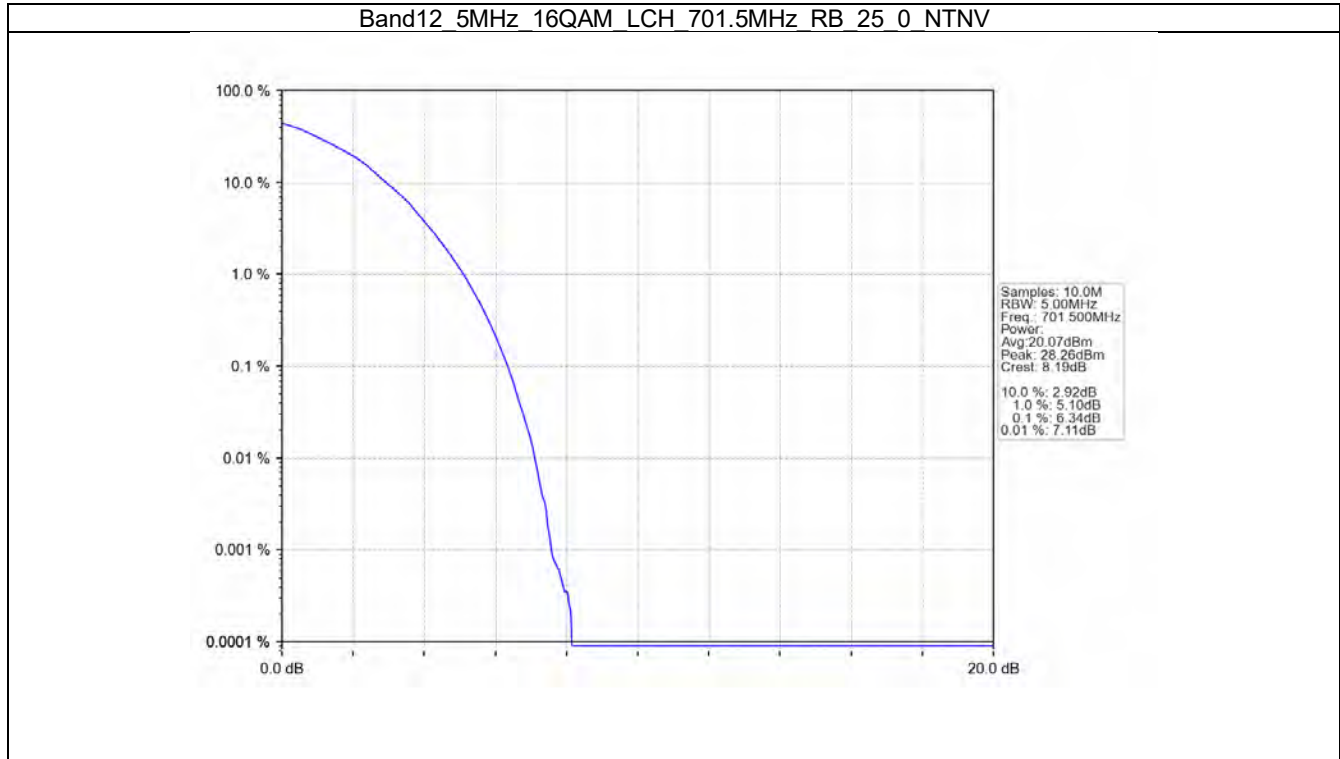
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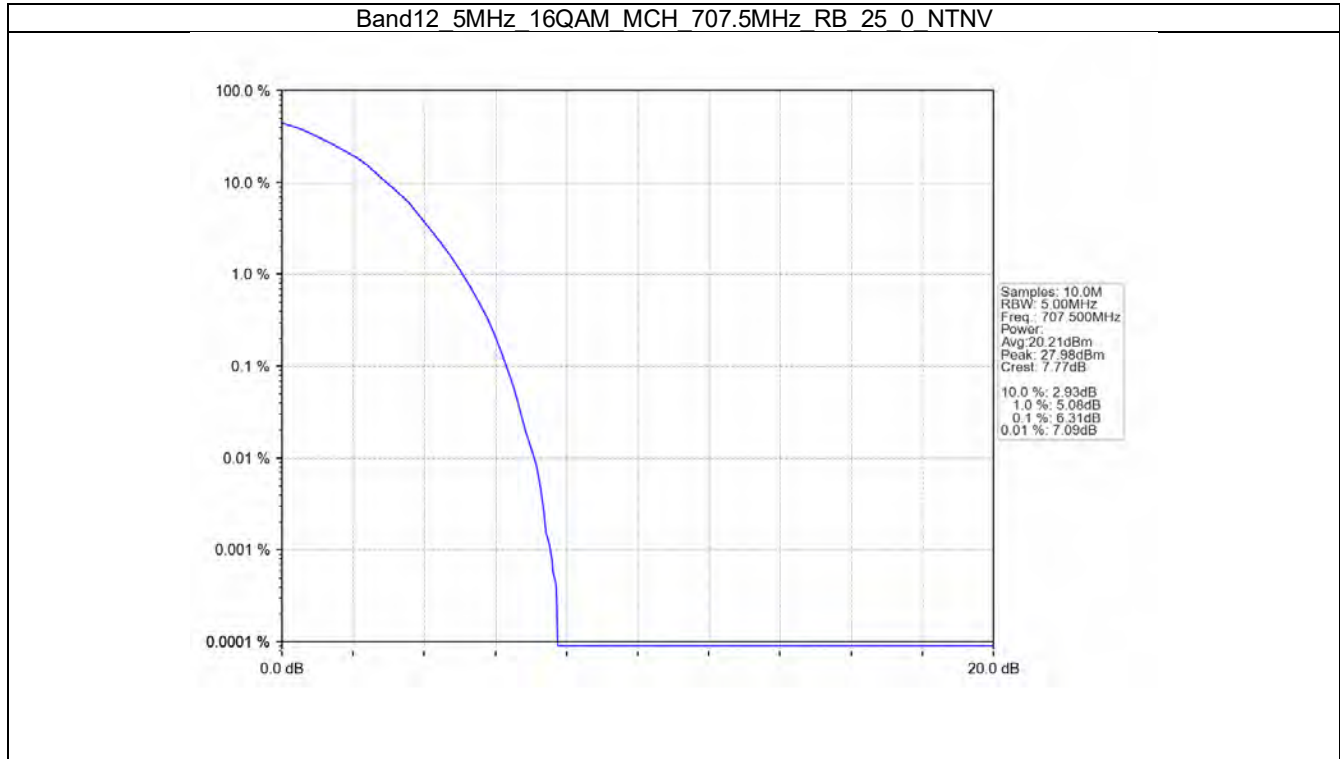
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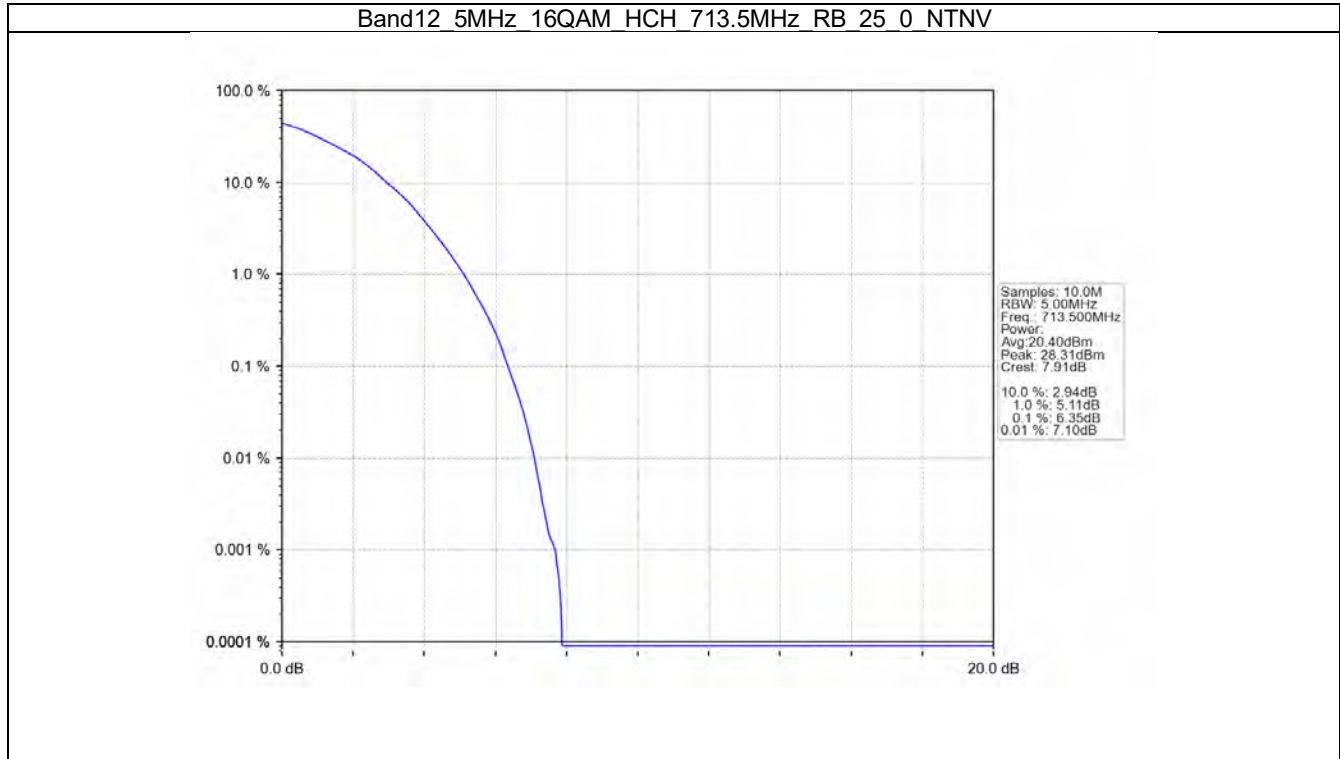
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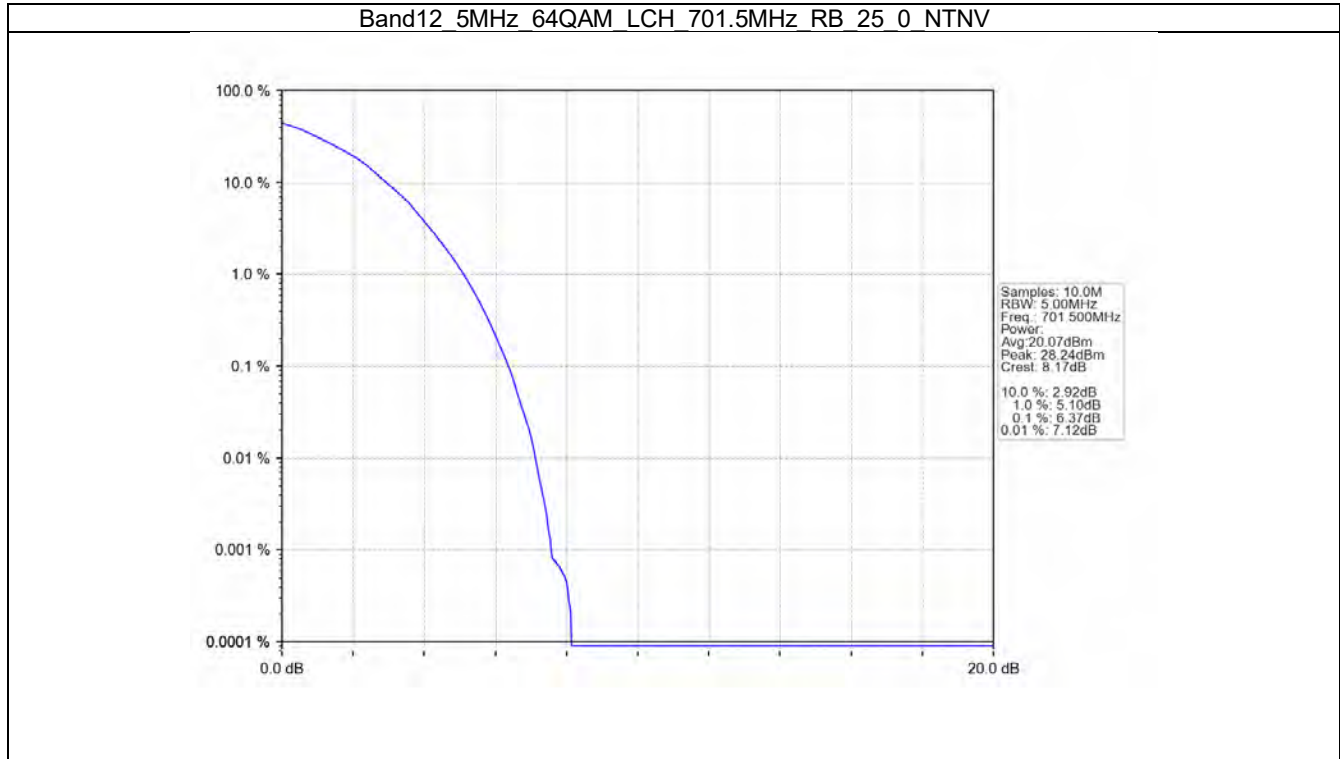
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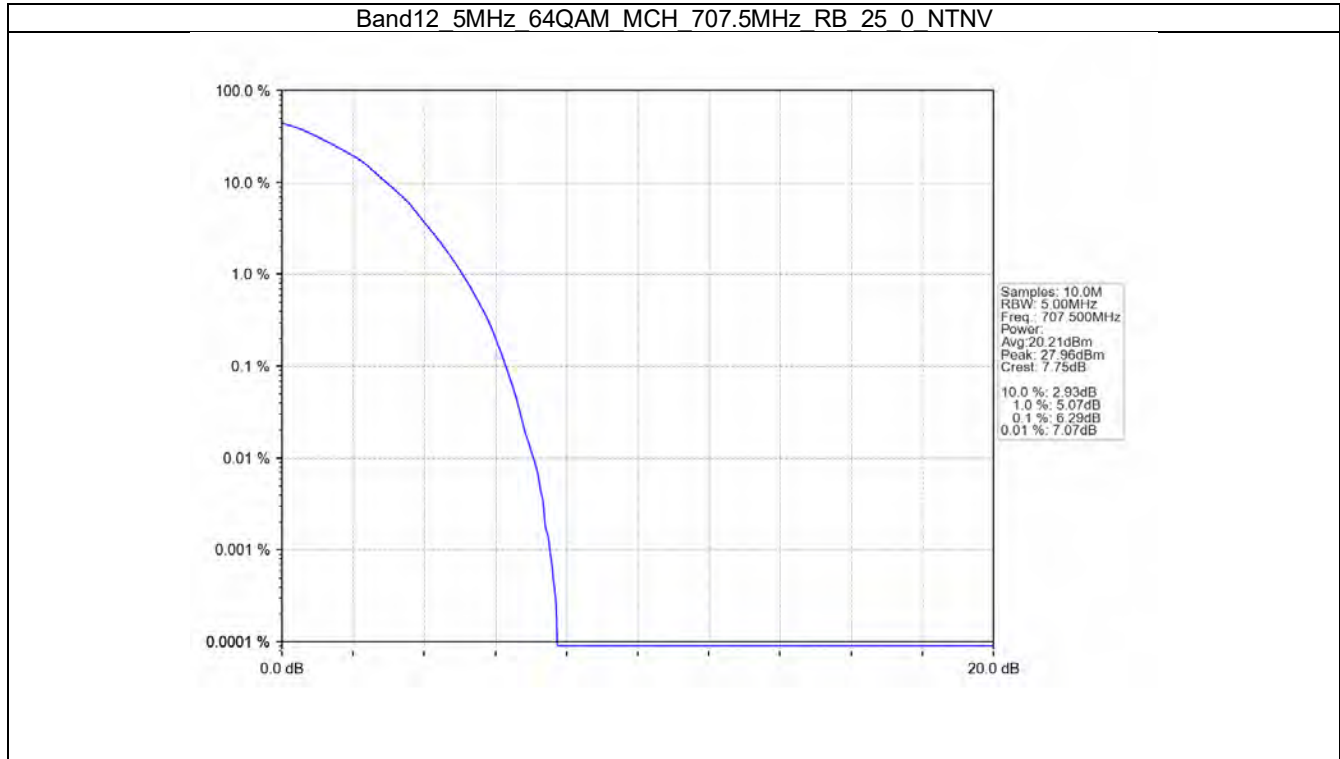
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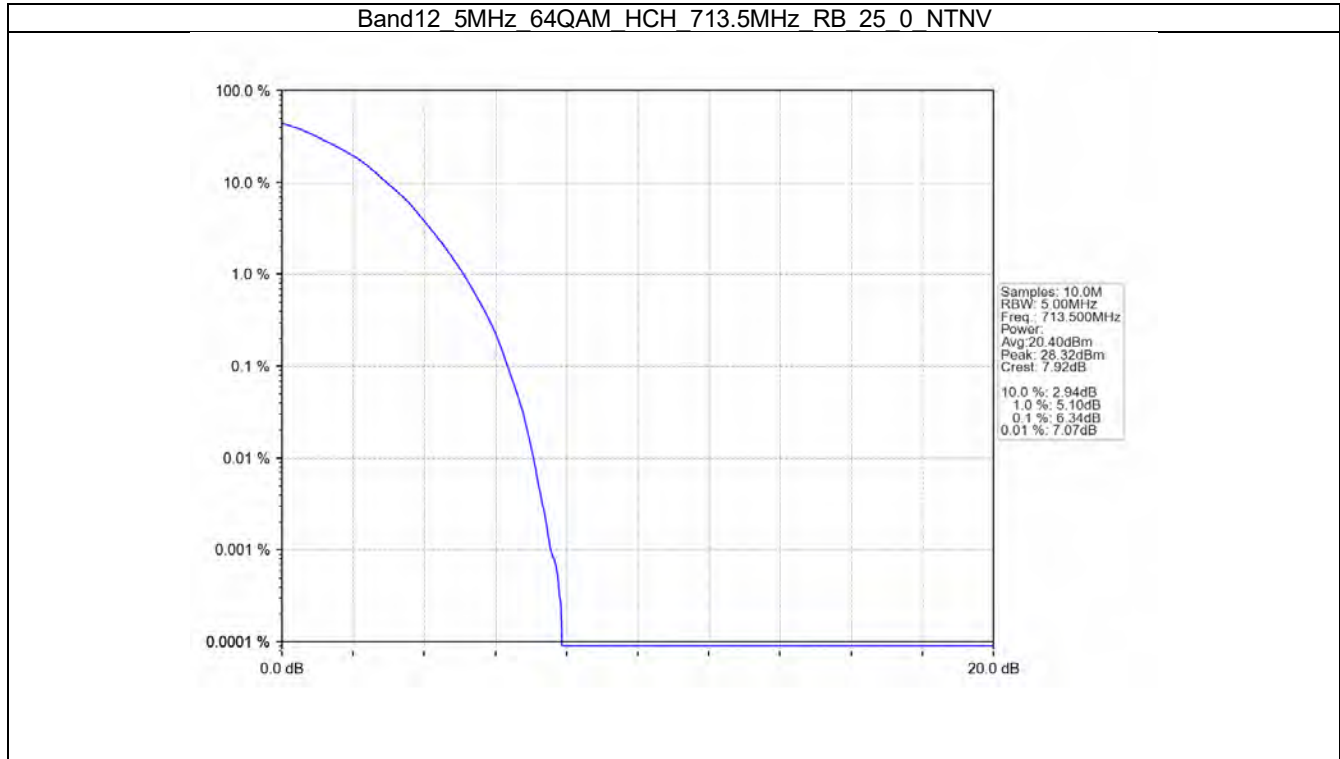
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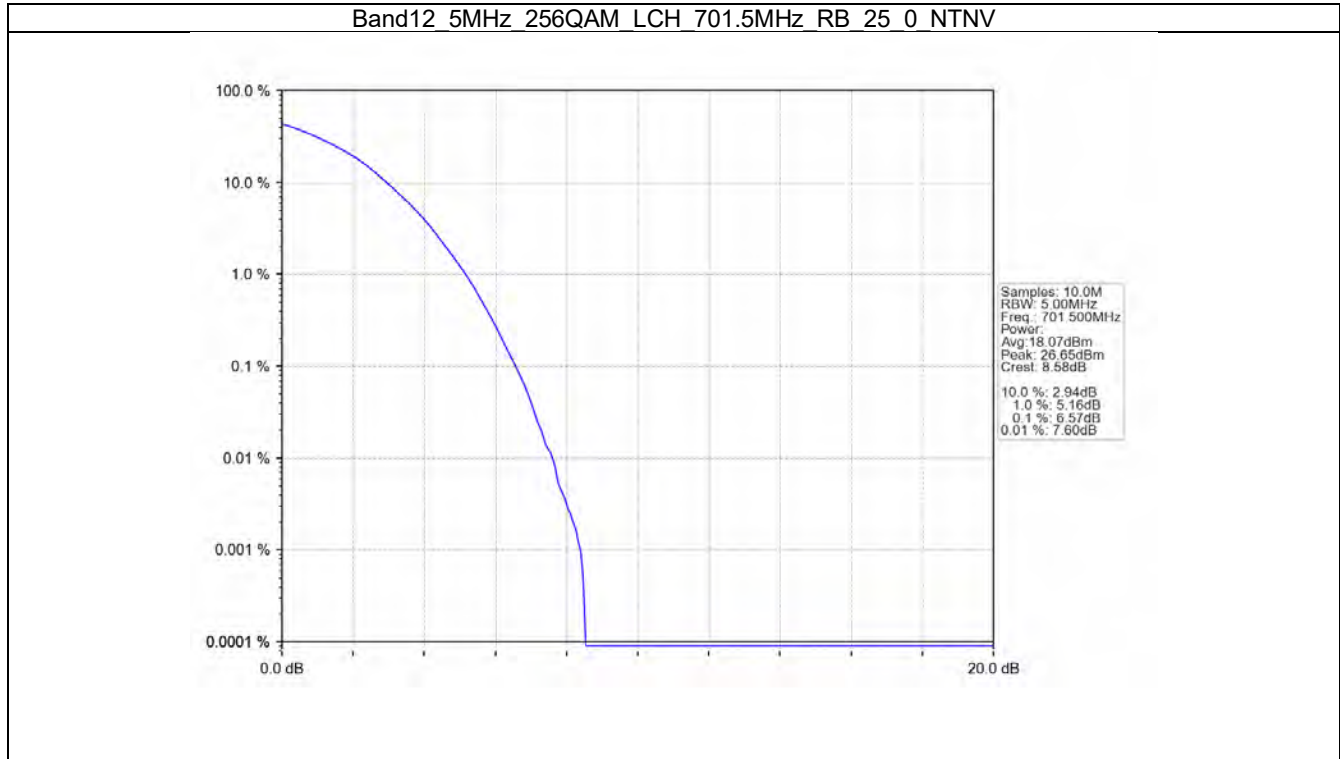
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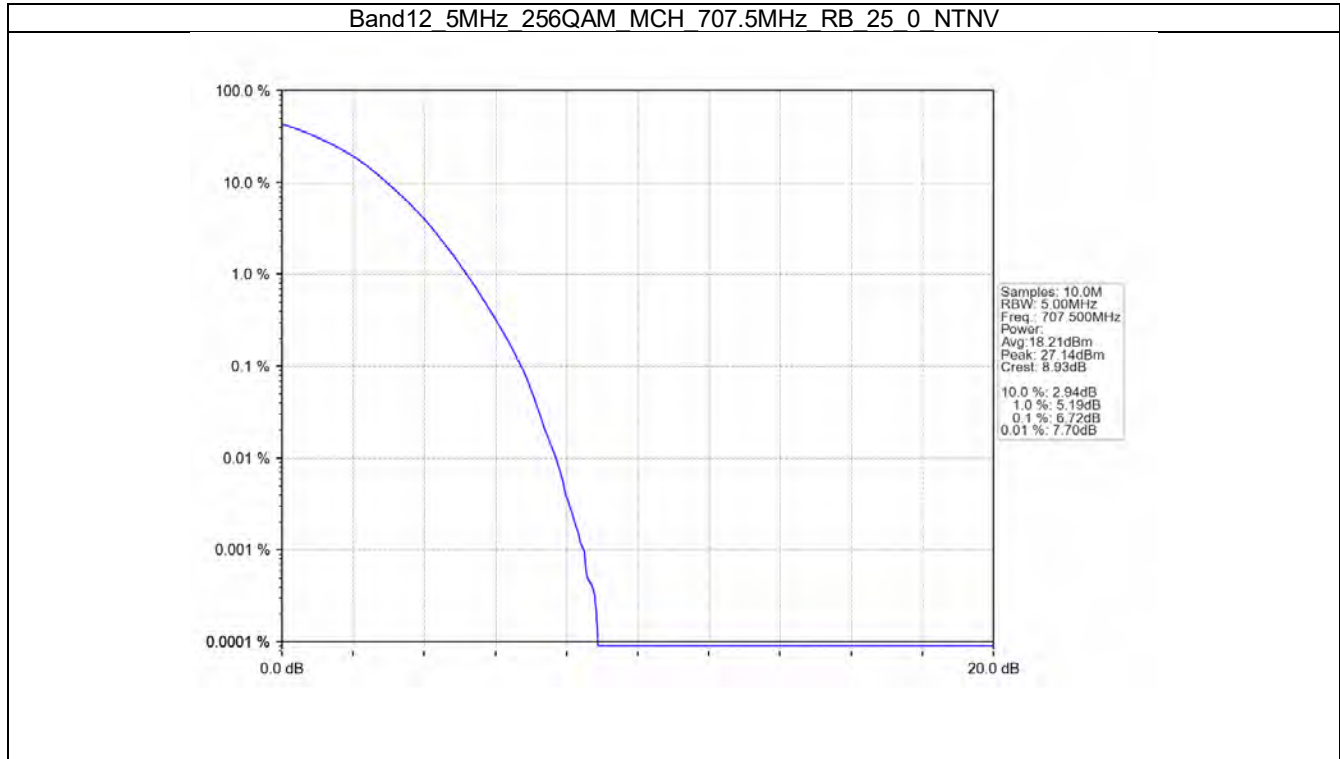
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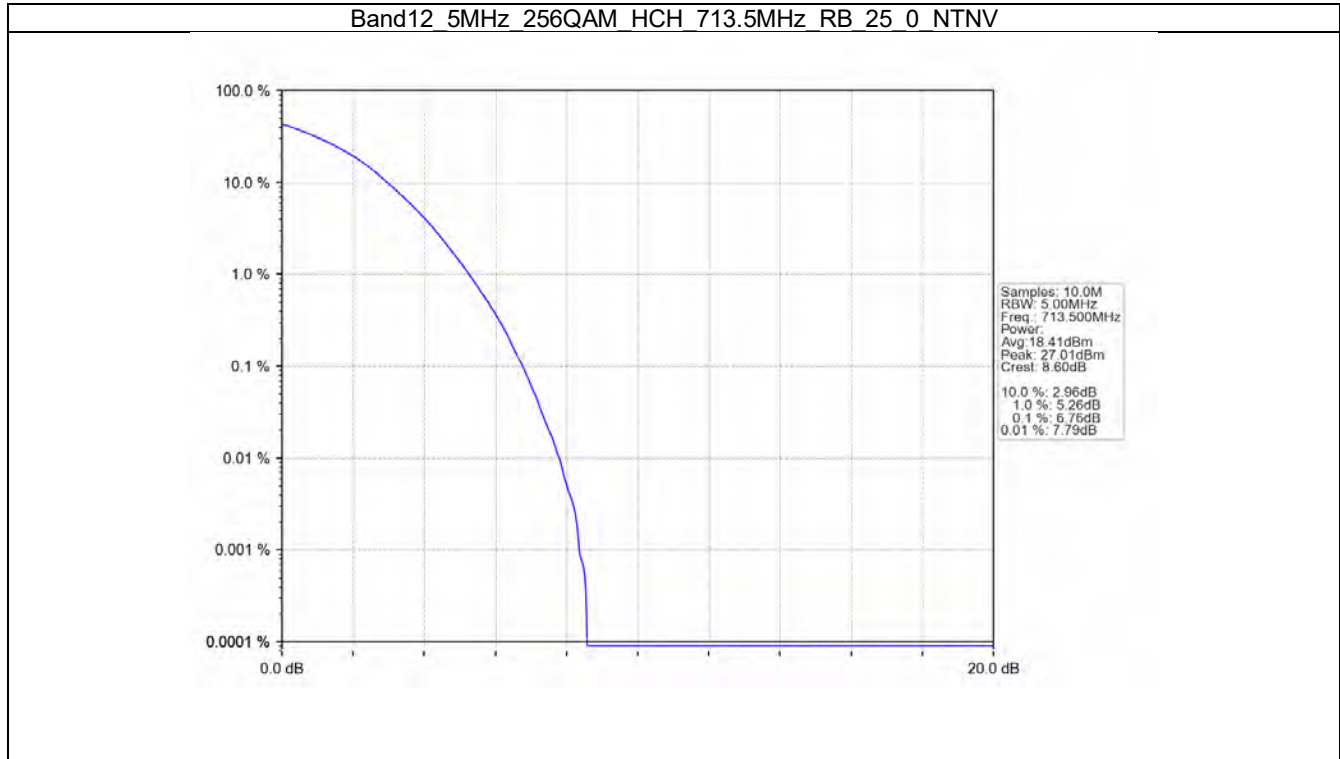
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4.4 B12_10MHz

4.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	6.33	<=13	Pass
	707.5	50	0	6.35	<=13	Pass
	711	50	0	6.35	<=13	Pass
16QAM	704	50	0	6.33	<=13	Pass
	707.5	50	0	6.35	<=13	Pass
	711	50	0	6.37	<=13	Pass
64QAM	704	50	0	6.32	<=13	Pass
	707.5	50	0	6.36	<=13	Pass
	711	50	0	6.35	<=13	Pass
256QAM	704	50	0	6.61	<=13	Pass
	707.5	50	0	6.62	<=13	Pass
	711	50	0	6.71	<=13	Pass



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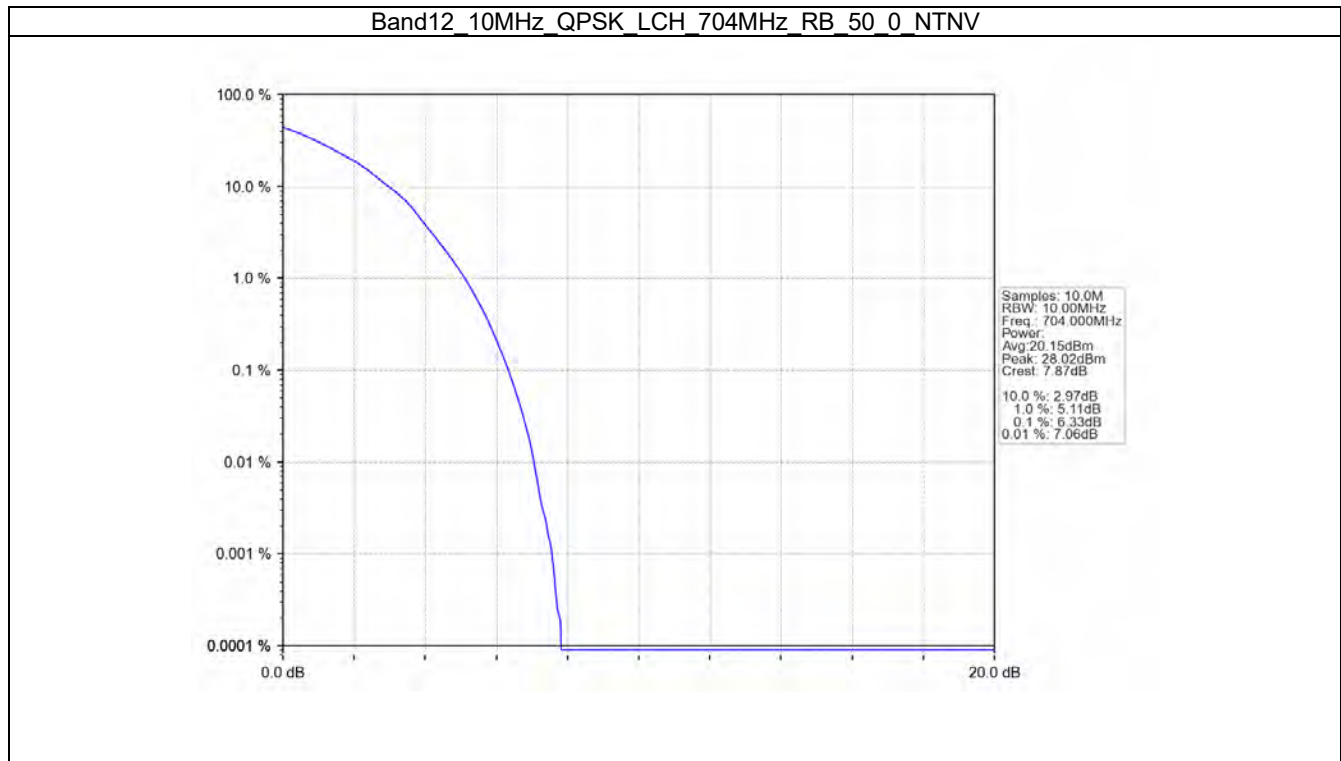
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4.4.2 Test Graph



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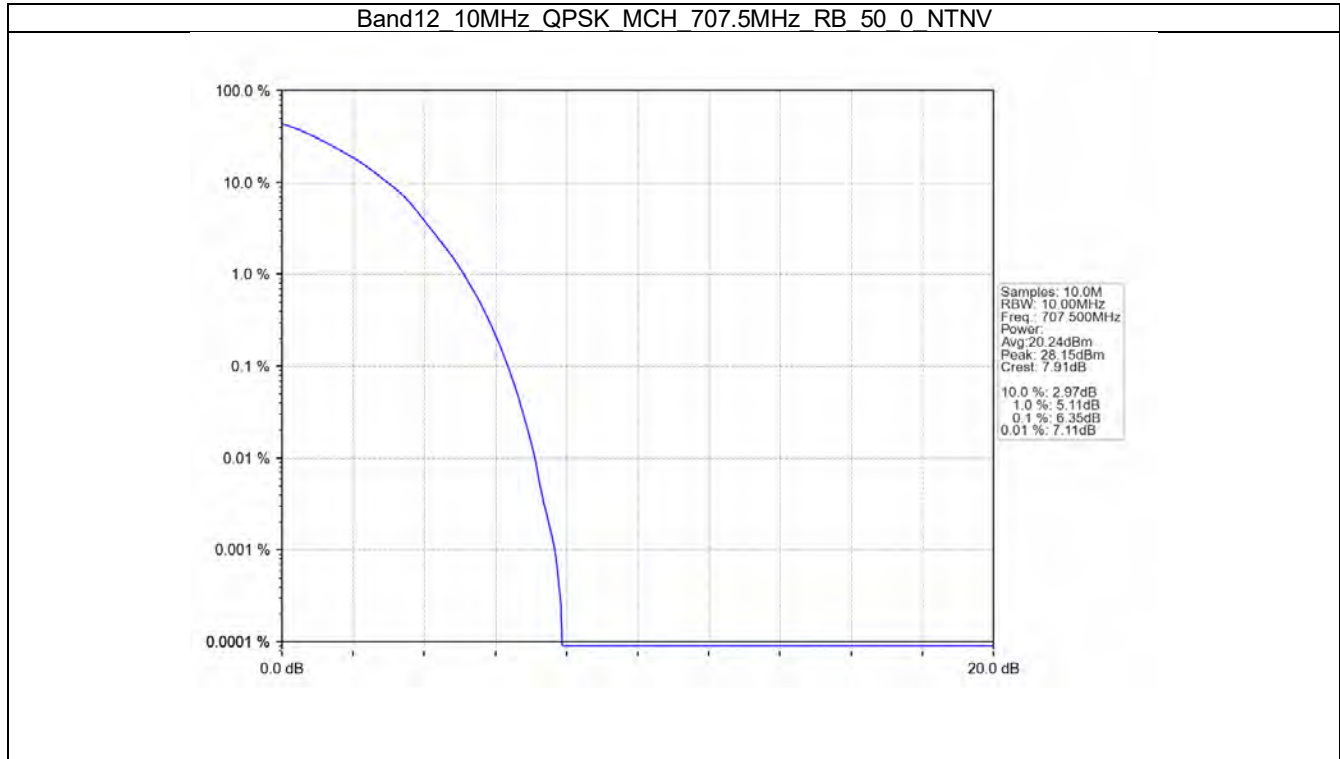
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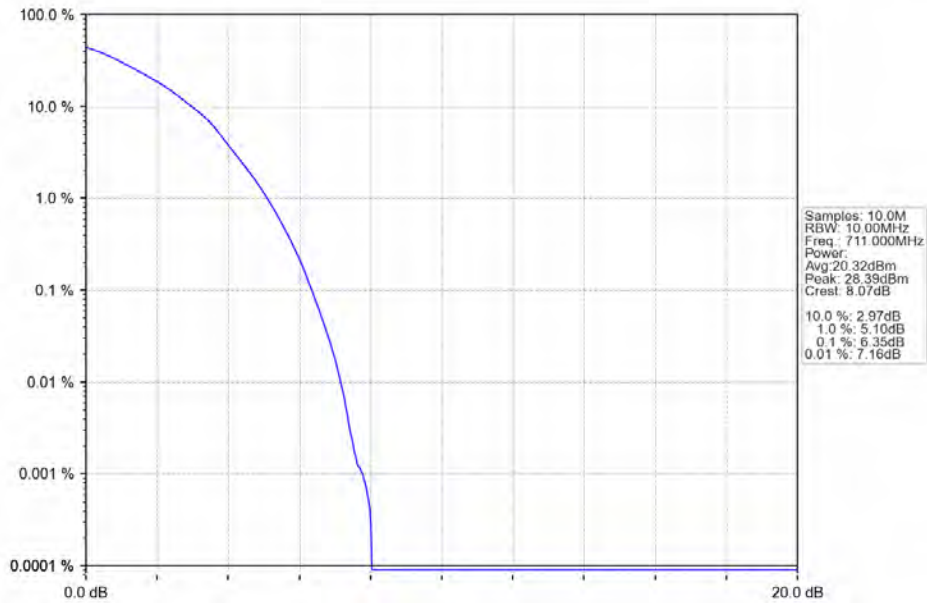
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Band12 10MHz QPSK HCH 711MHz RB 50 0 NTNV



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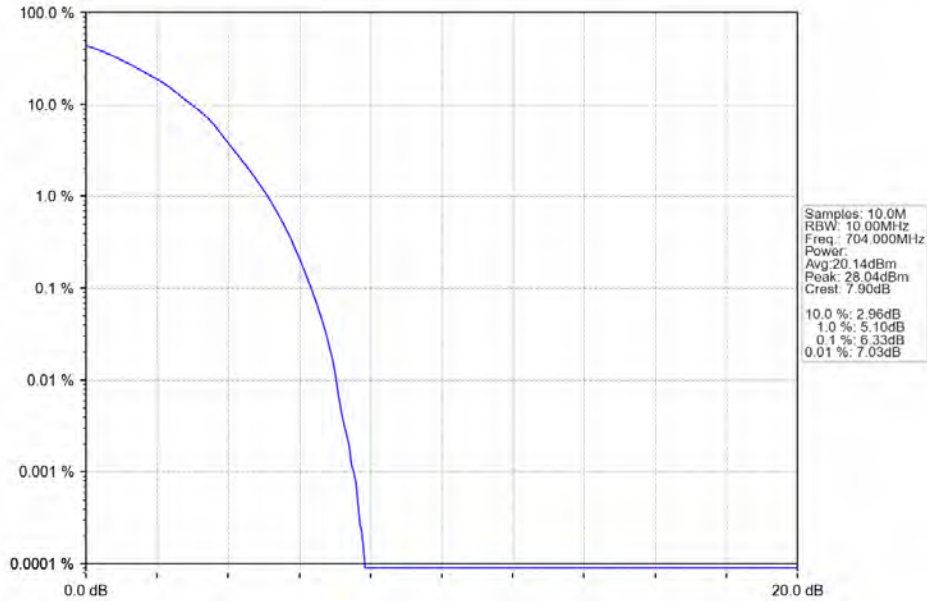
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Band12 10MHz 16QAM LCH 704MHz RB 50 0 NTV



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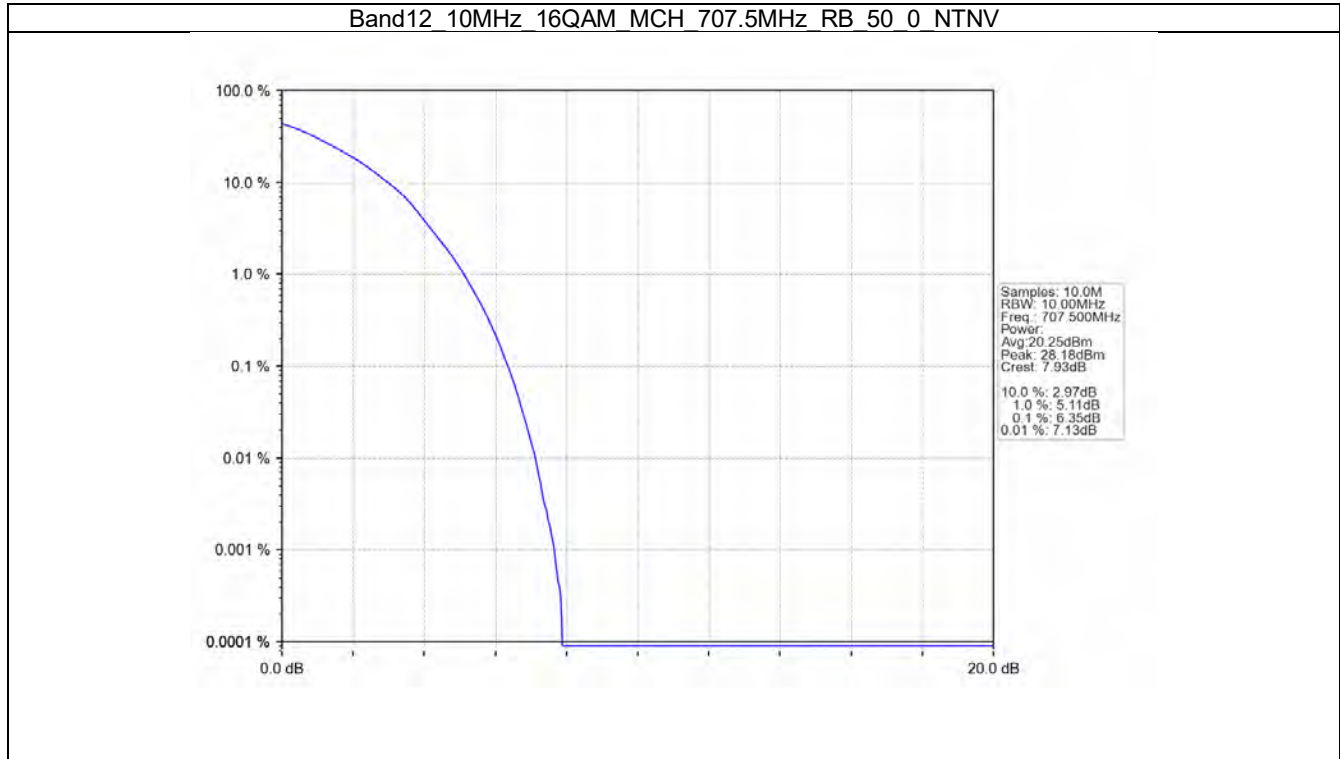
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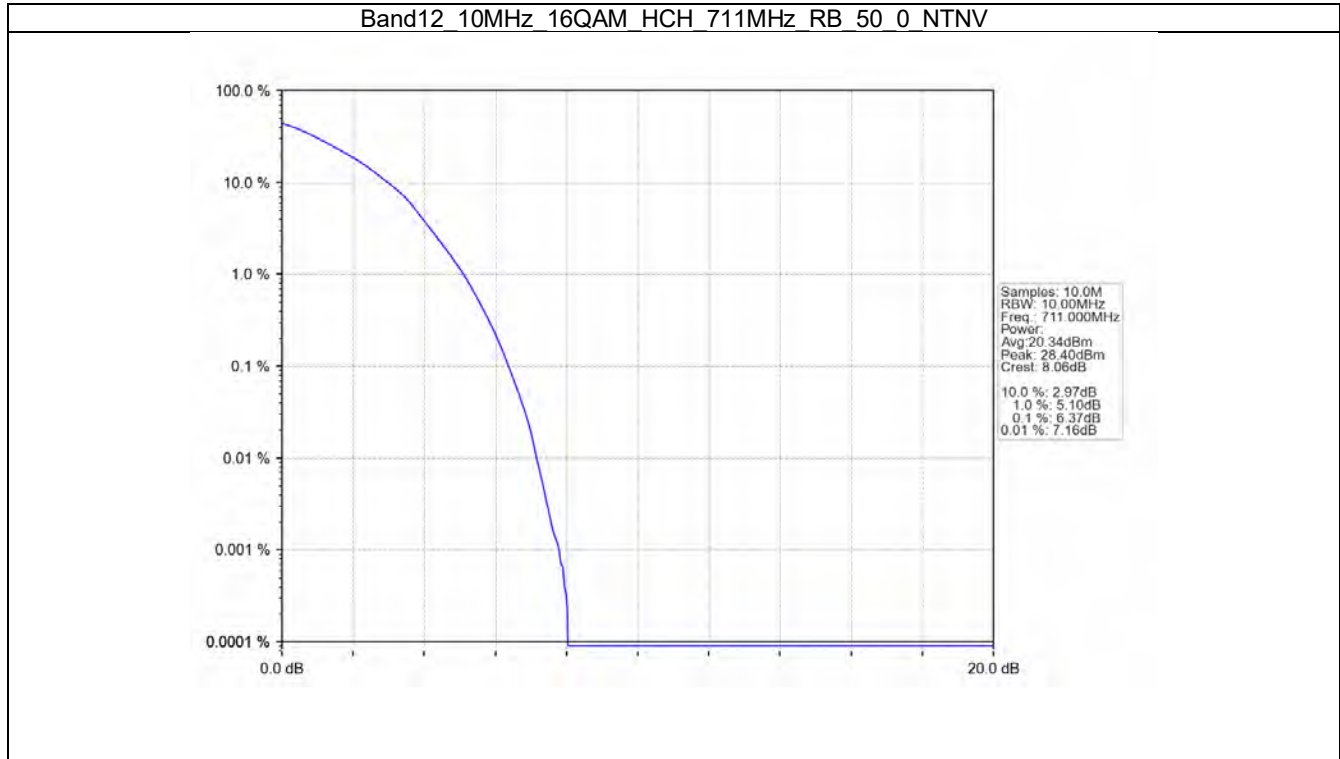
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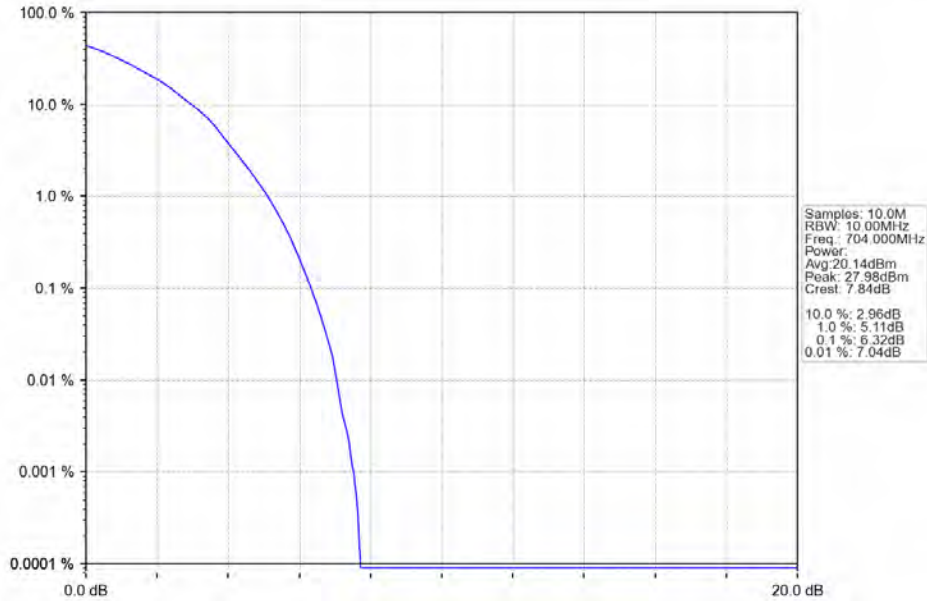
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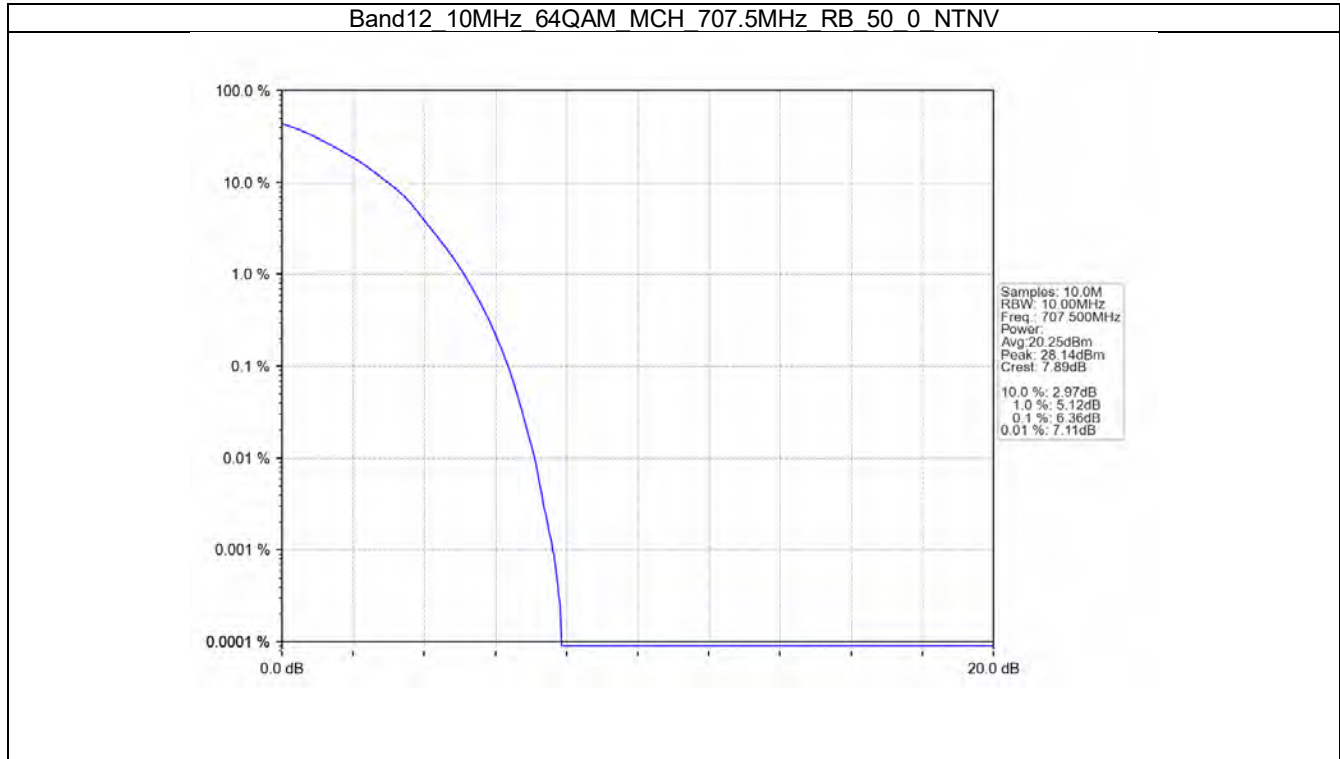
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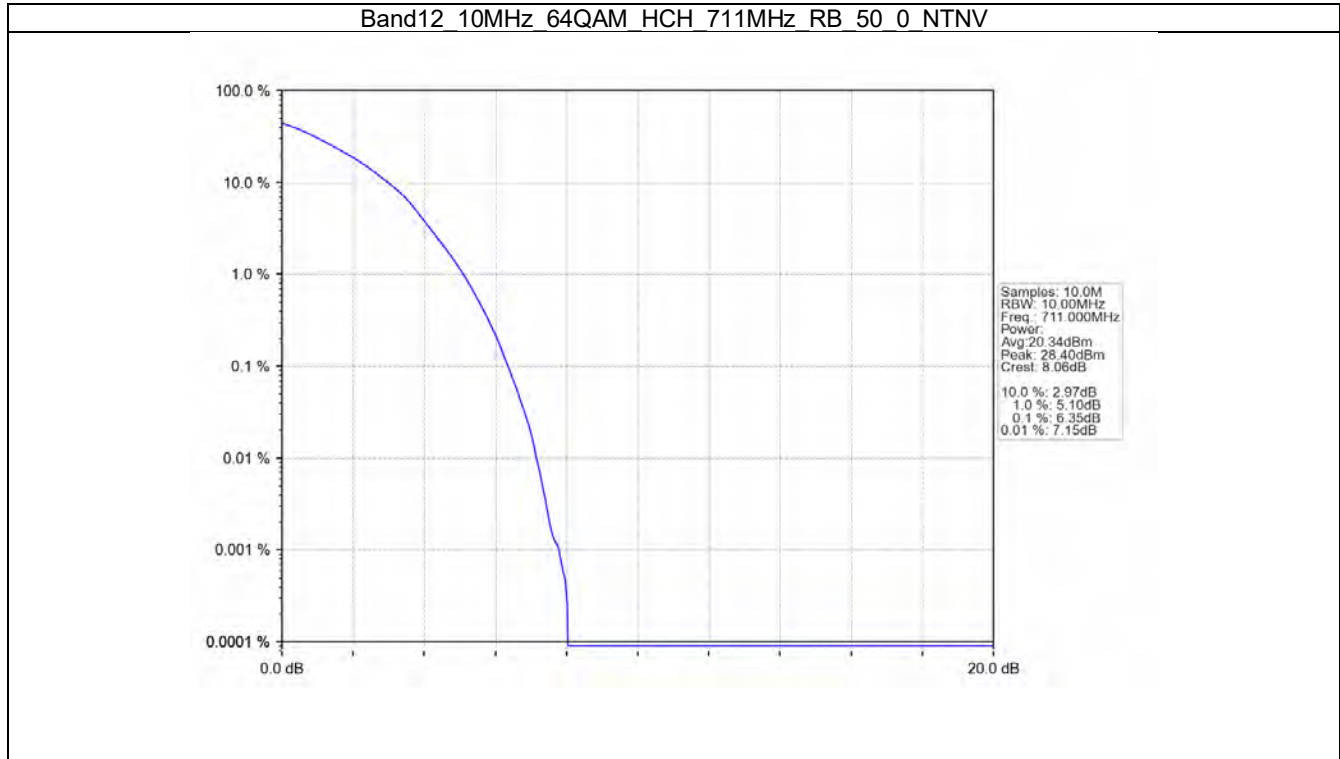
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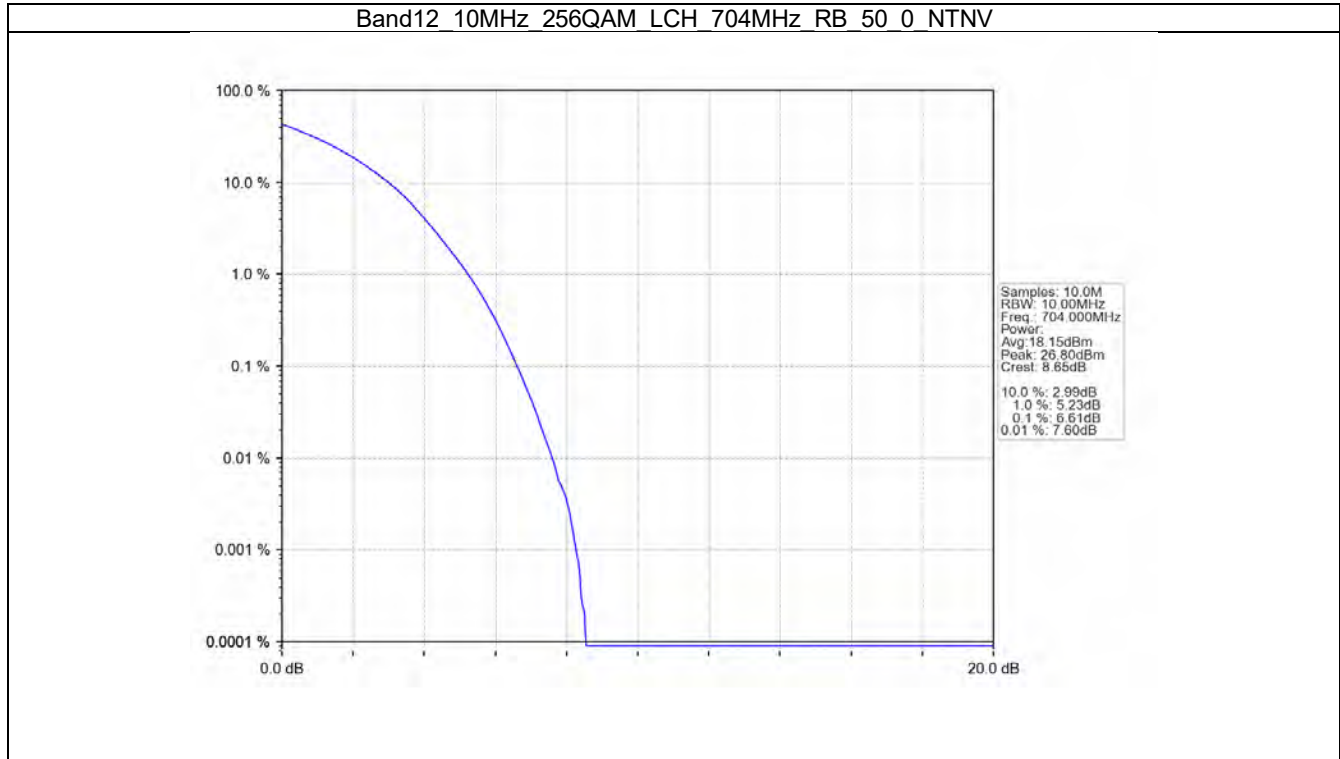
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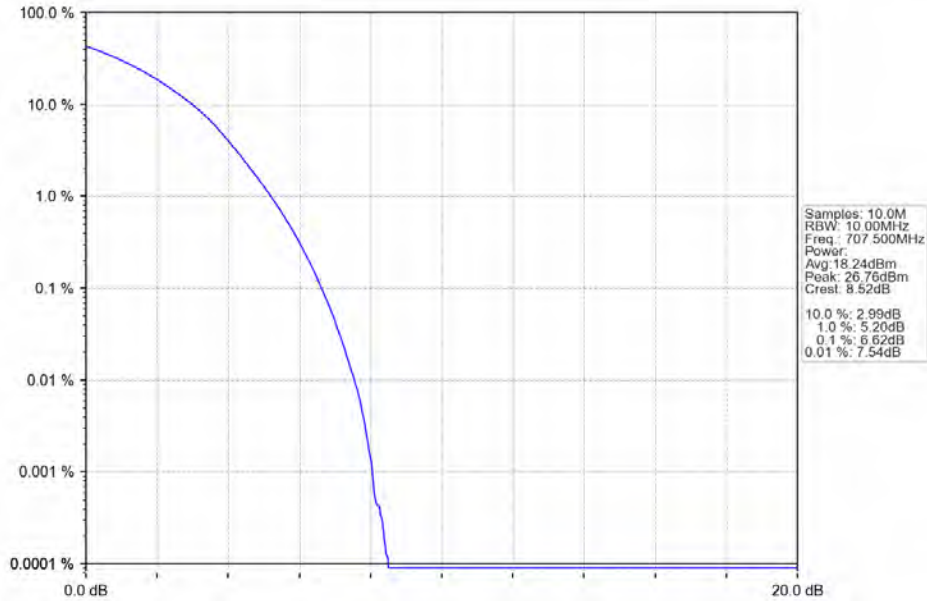
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Band12 10MHz 256QAM MCH 707.5MHz RB 50 0 NTNv



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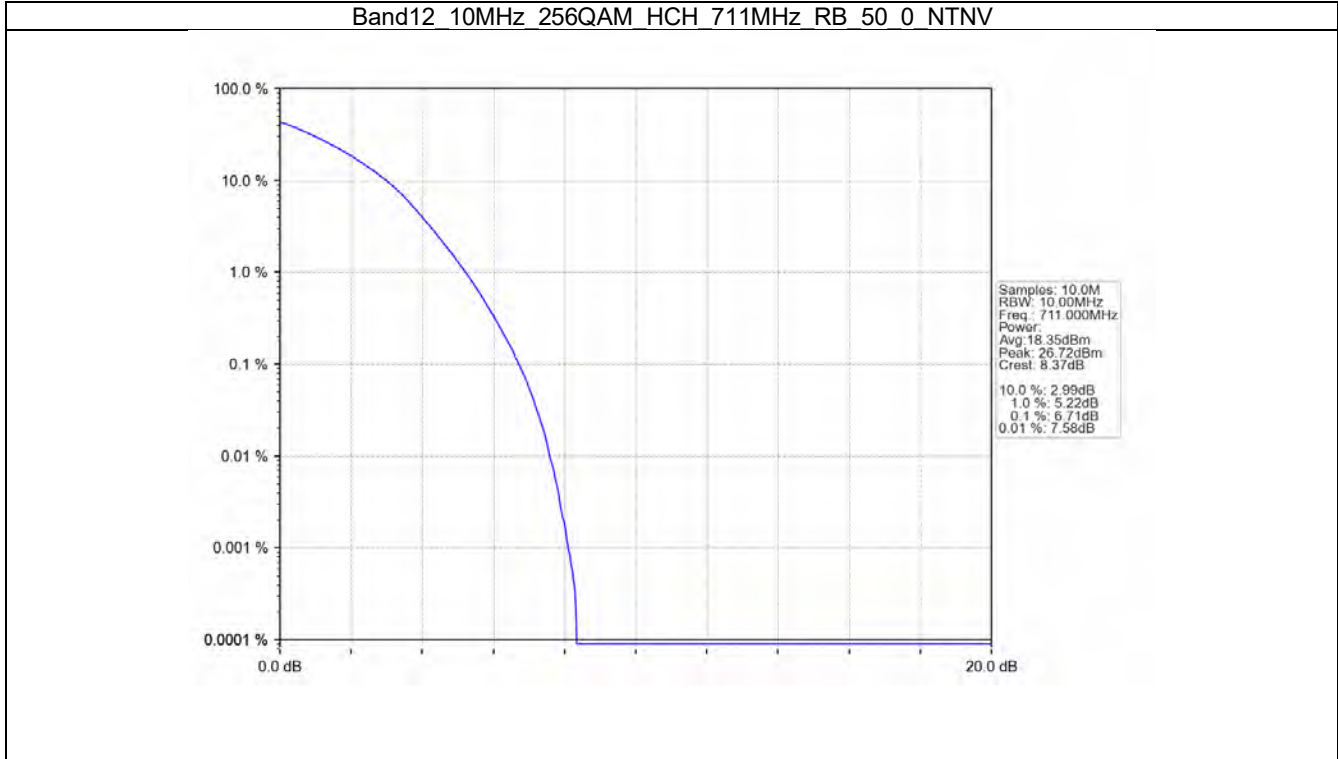
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5. Spurious Emission & Band Edges

5.1 B12_1.4MHz

5.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTN						
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
		1	0	Refer To Test Graph		Pass
	715.3	1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass



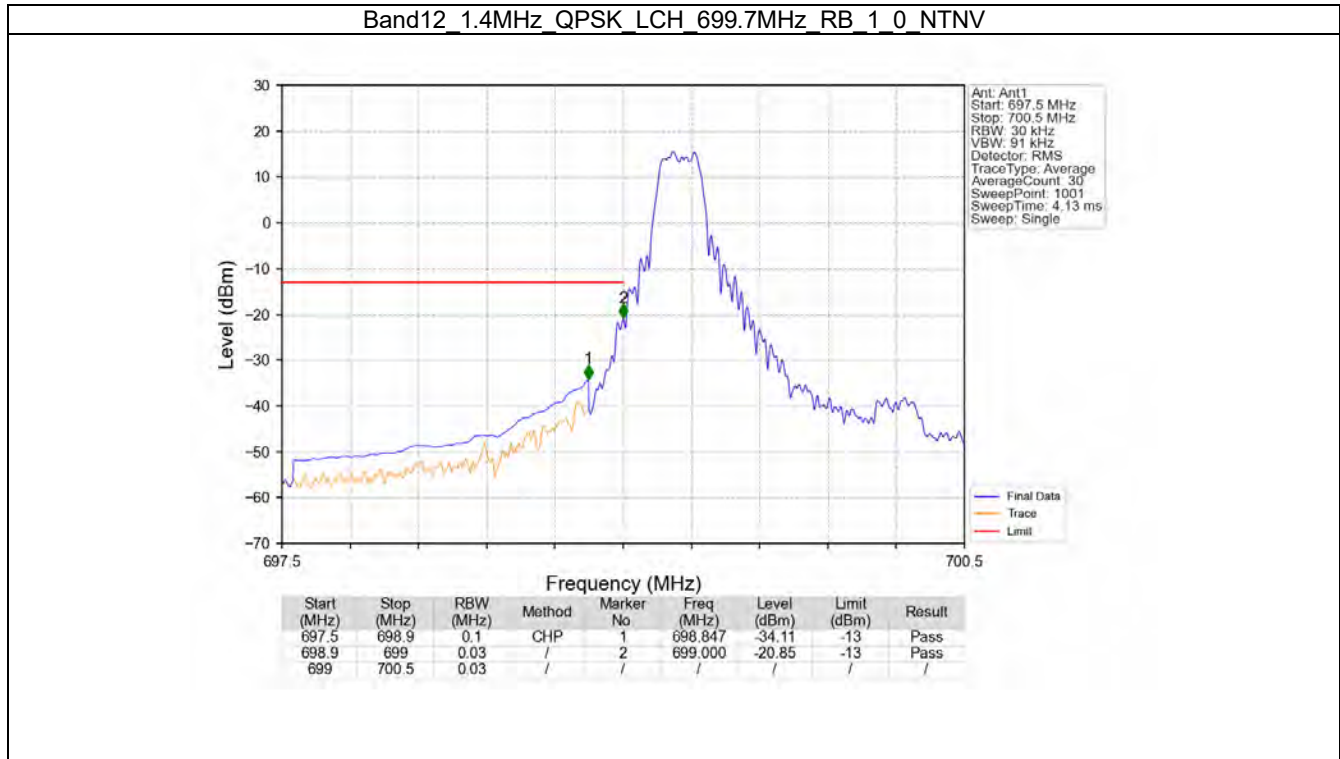
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5.1.2 Test Graph



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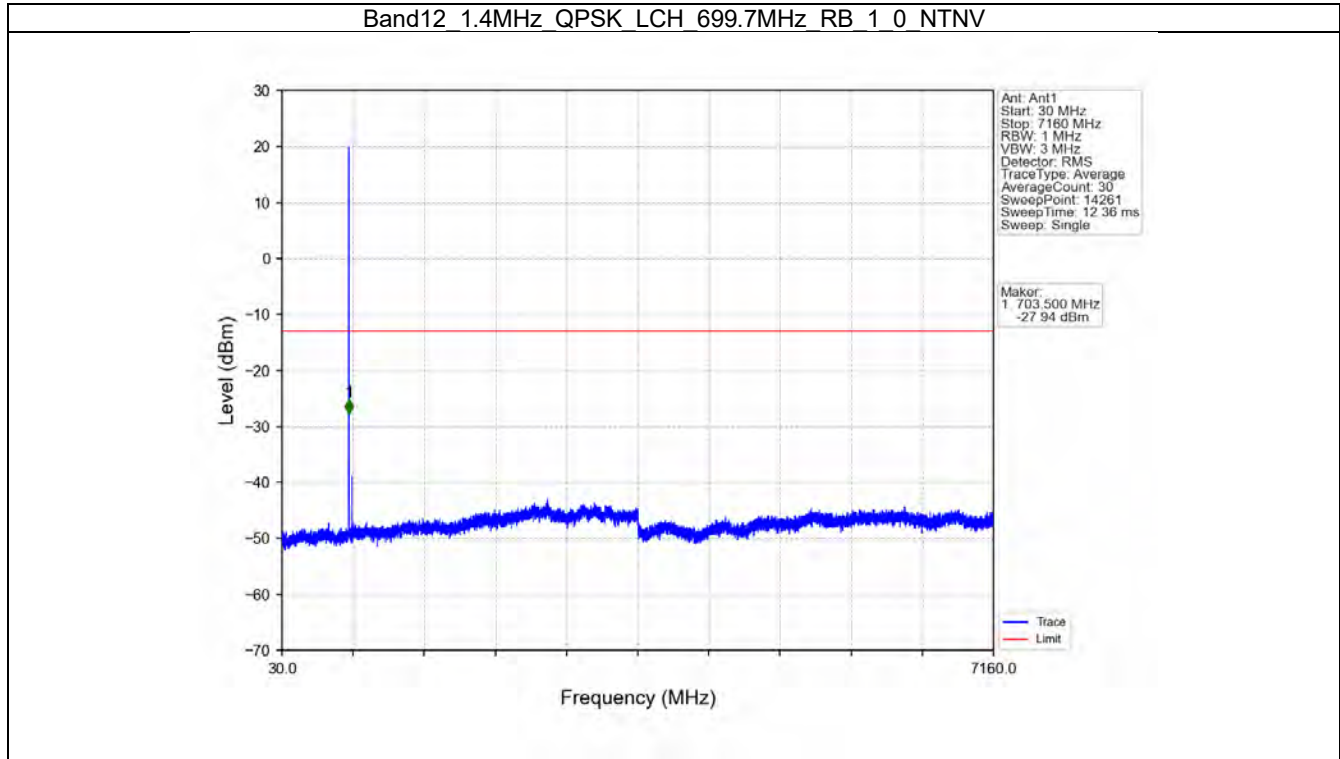
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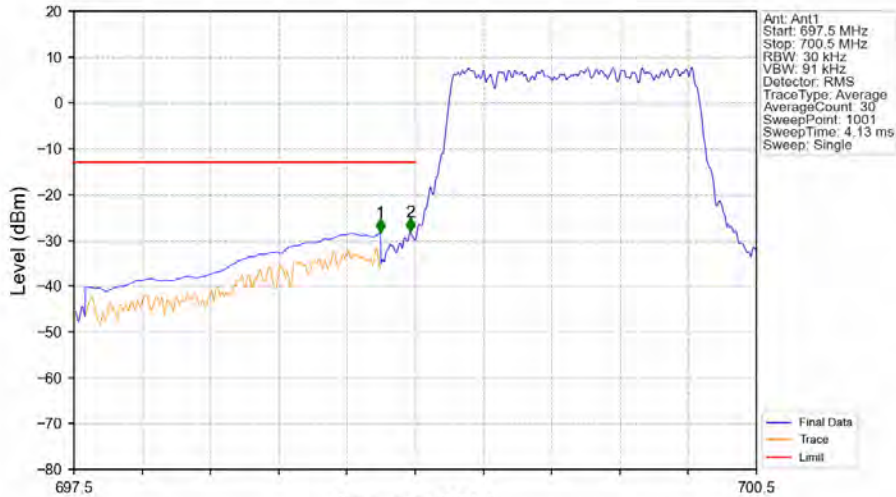
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Band12 1.4MHz QPSK LCH 699.7MHz RB 6 0 NTV



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	-28.29	-13	Pass
698.9	699	0.03	/	2	698.979	-28.20	-13	Pass
699	700.5	0.03	/	/	/	/	/	/



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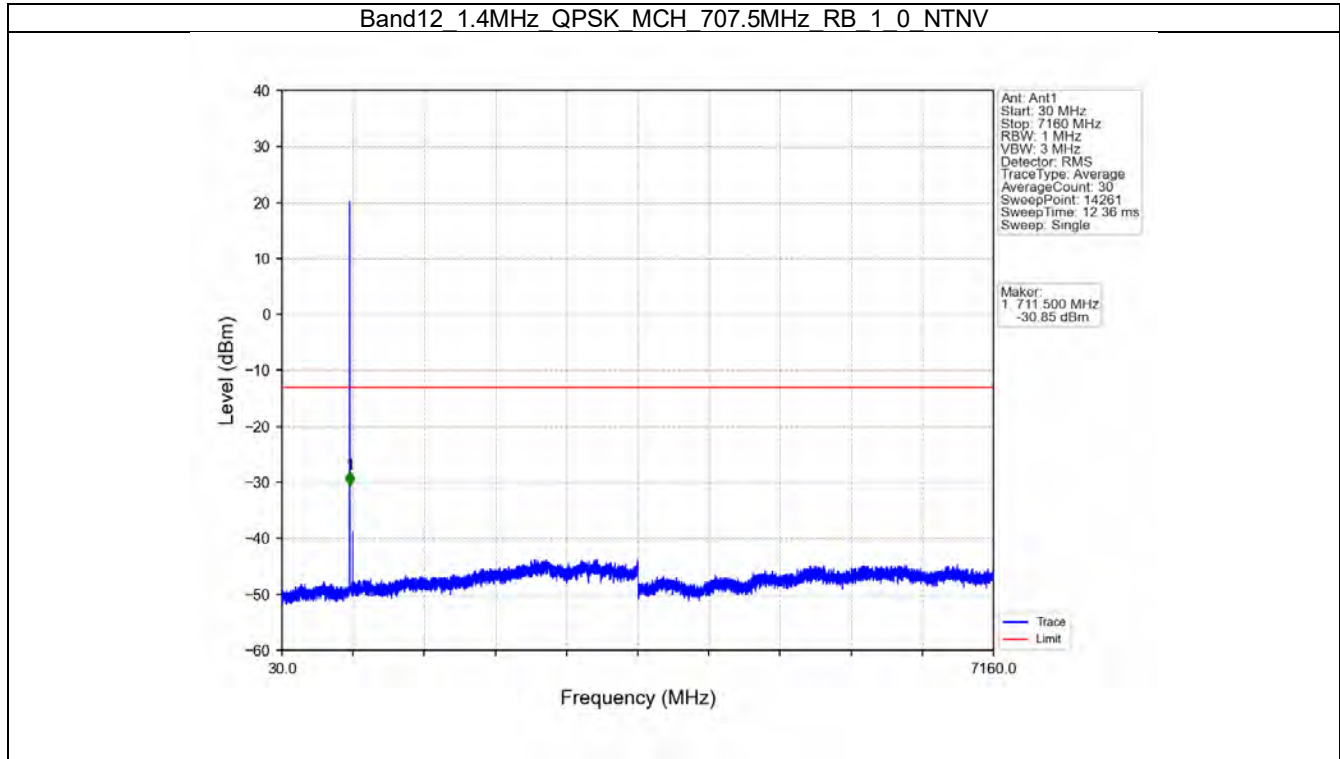
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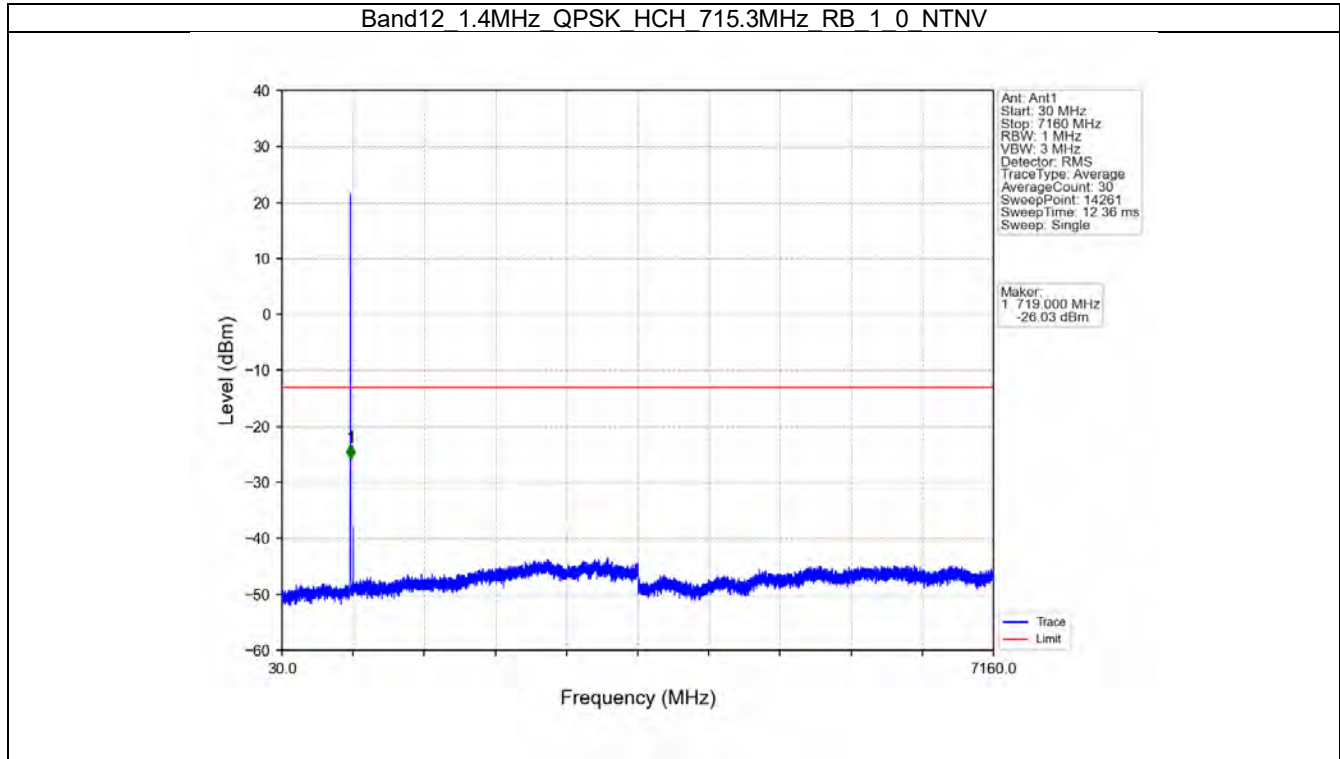
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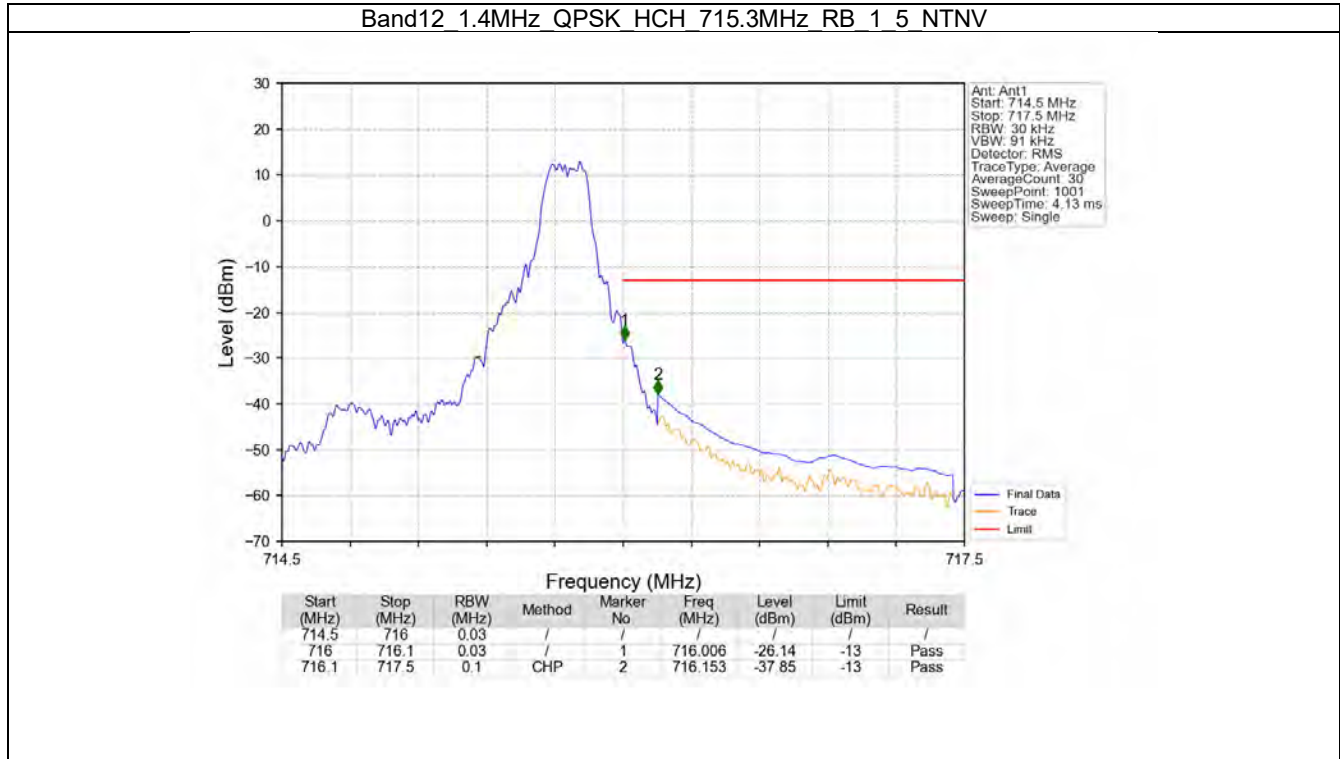
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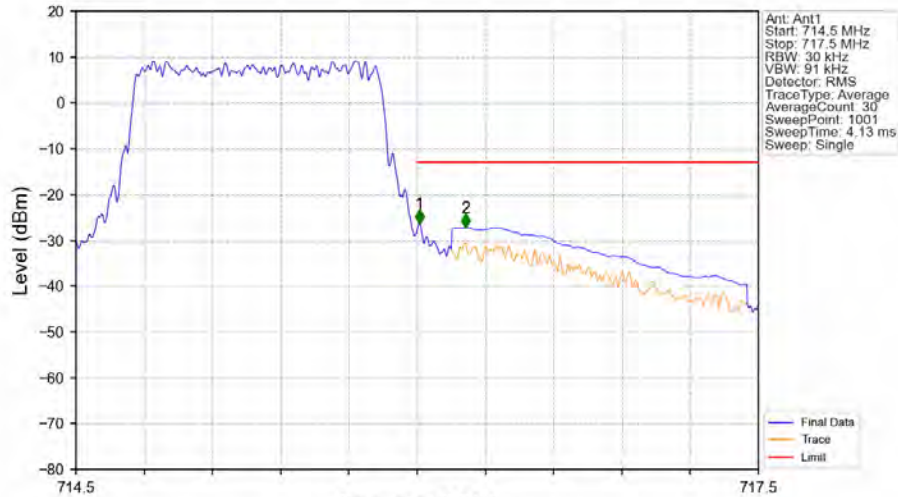


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Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTV



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	716.009	-26.34	-13	Pass
716.1	717.5	0.1	CHP	2	716.213	-27.25	-13	Pass



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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
	707.5	1	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass



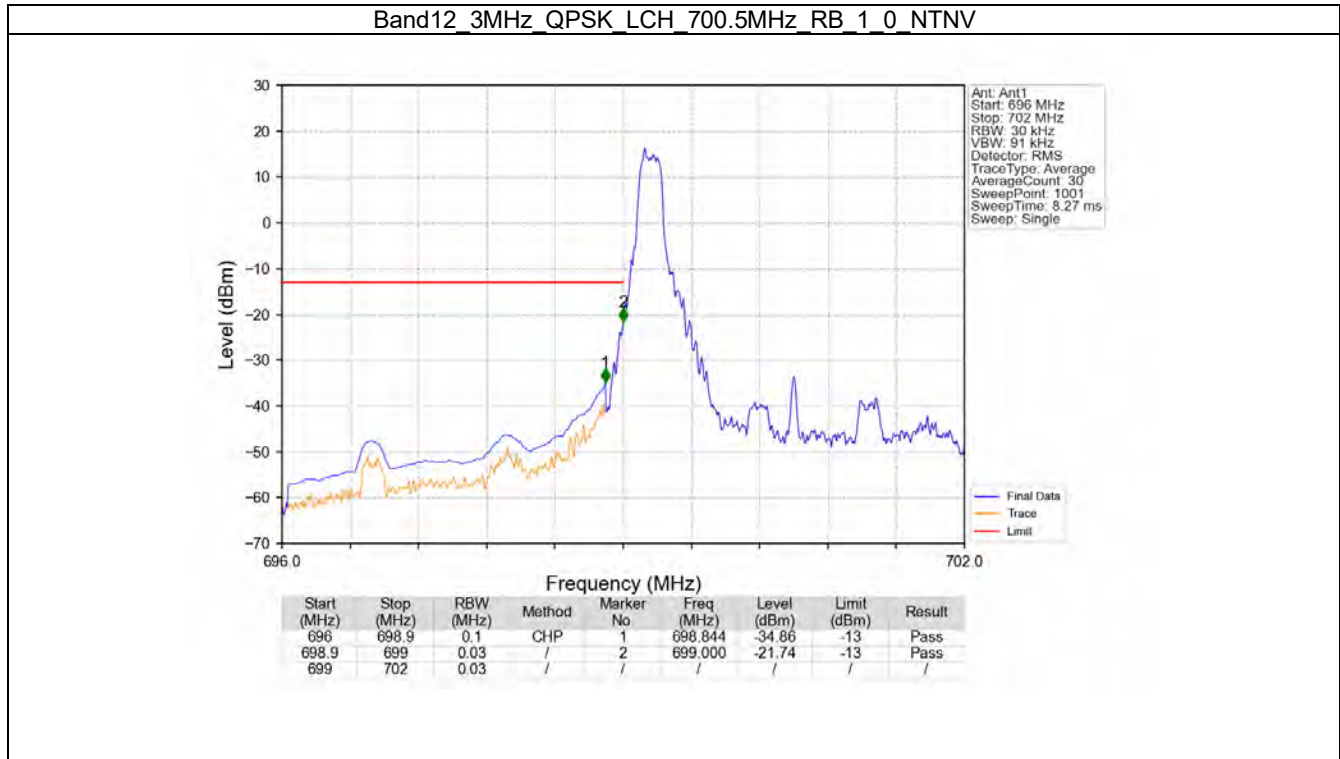
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5.2.2 Test Graph



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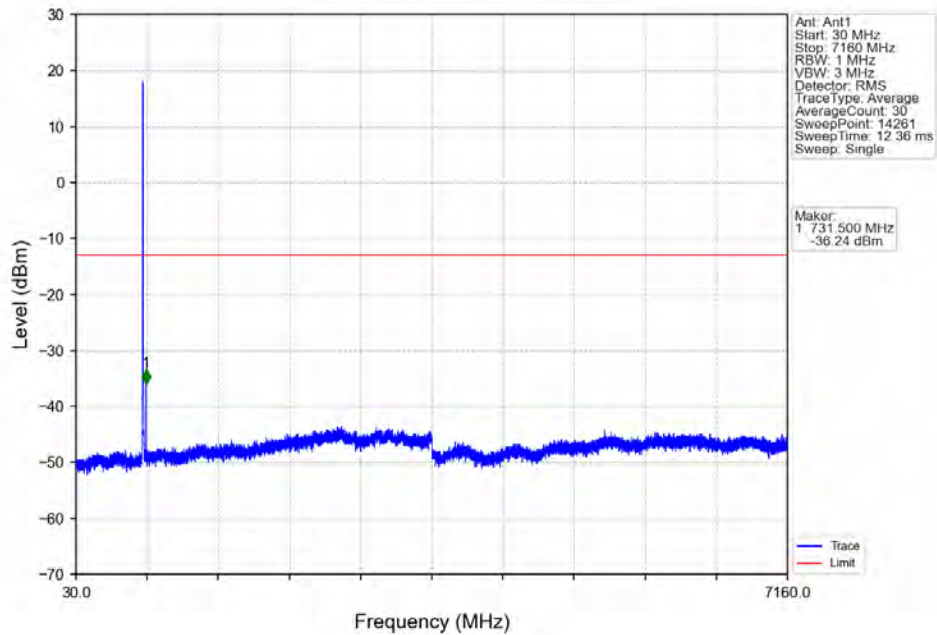


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Band12 3MHz QPSK LCH 700.5MHz RB 1 0 NTN



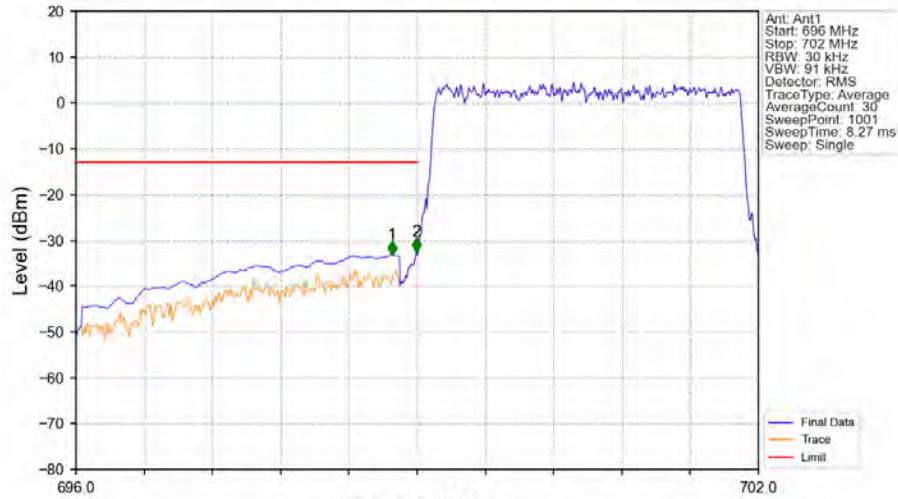
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Band12 3MHz QPSK LCH 700.5MHz RB 15 0 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.778	-33.18	-13	Pass
698.9	699	0.03	/	2	698.994	-32.47	-13	Pass
699	702	0.03	/	/	/	/	/	/



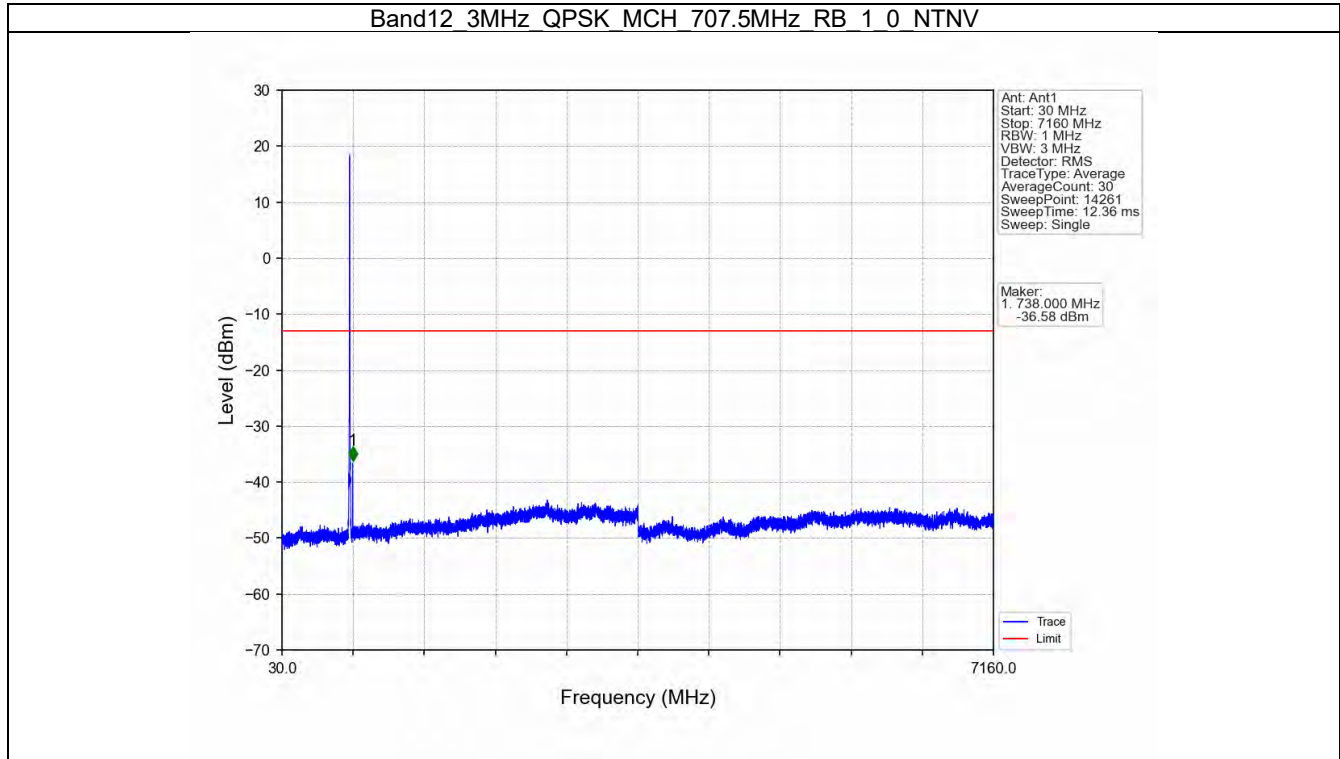
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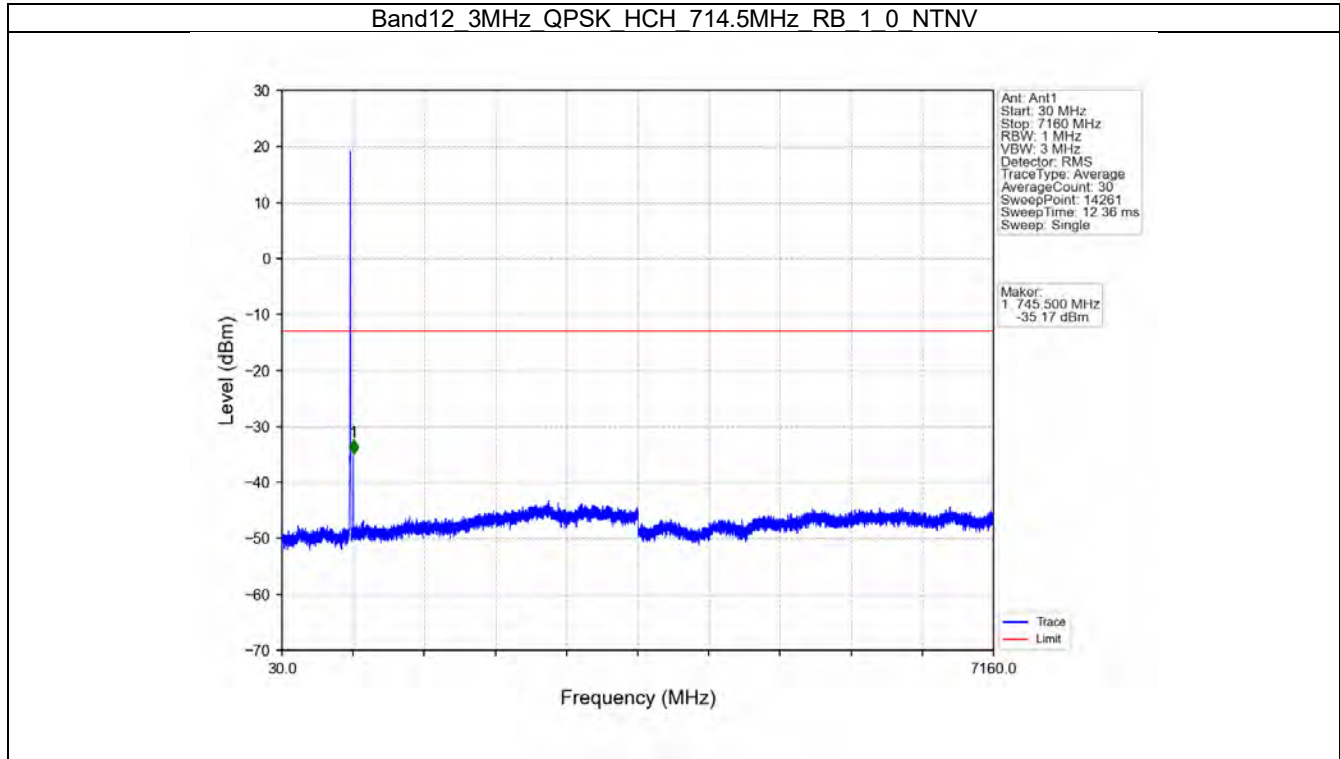


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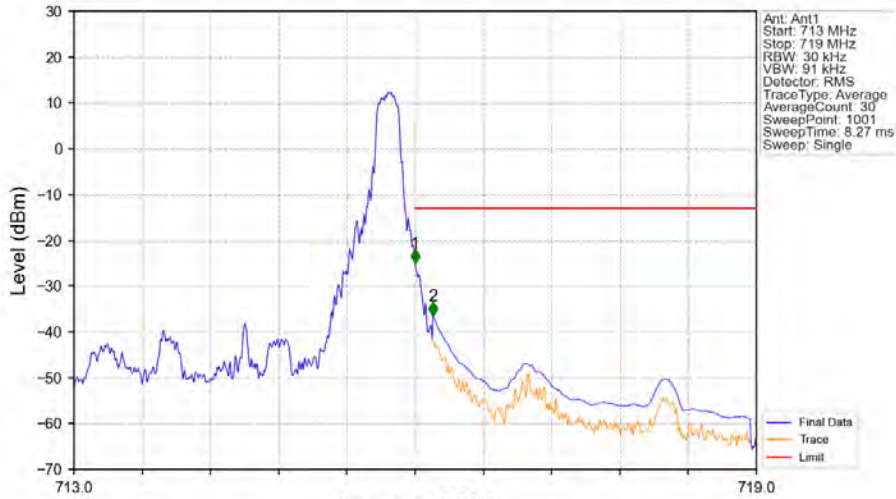


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Band12 3MHz QPSK HCH 714.5MHz RB 1 14 NTV



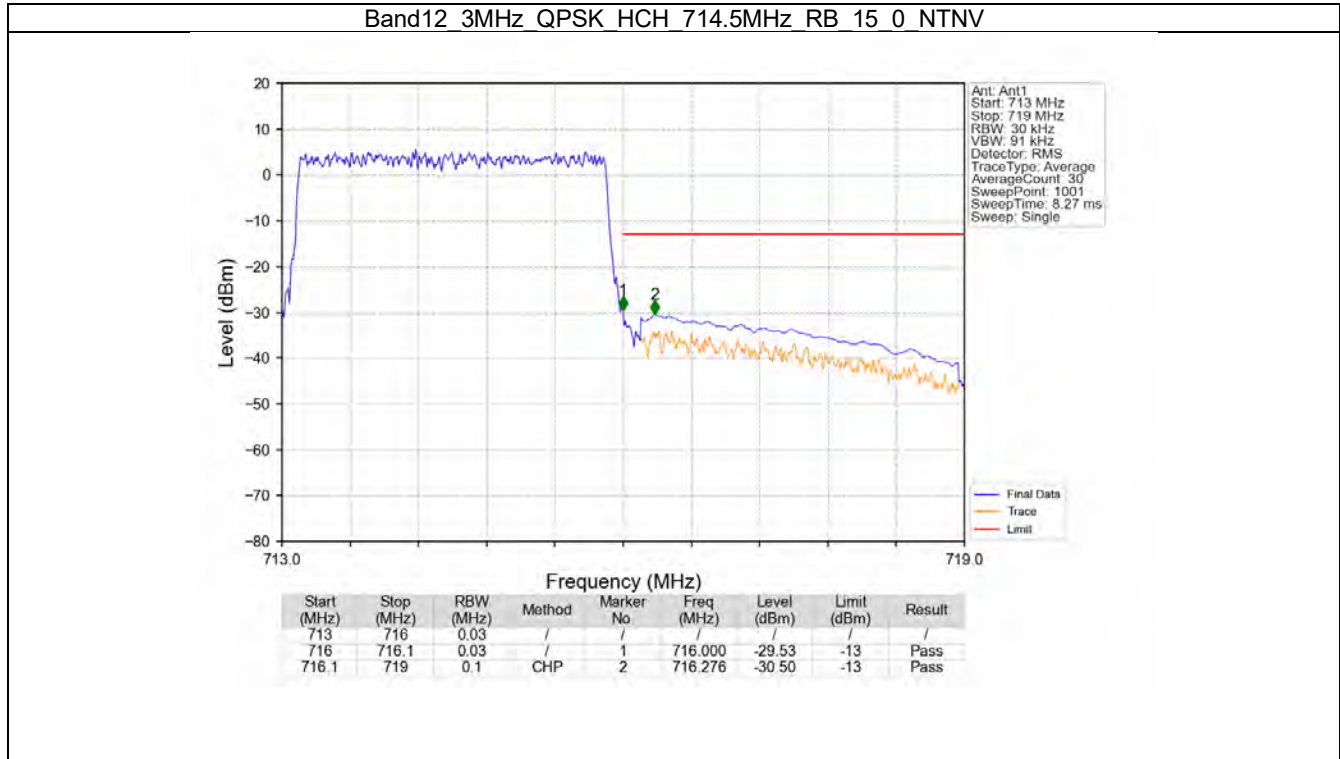
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-25.02	-13	Pass
716.1	719	0.1	CHP	2	716.156	-36.45	-13	Pass



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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
	707.5	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



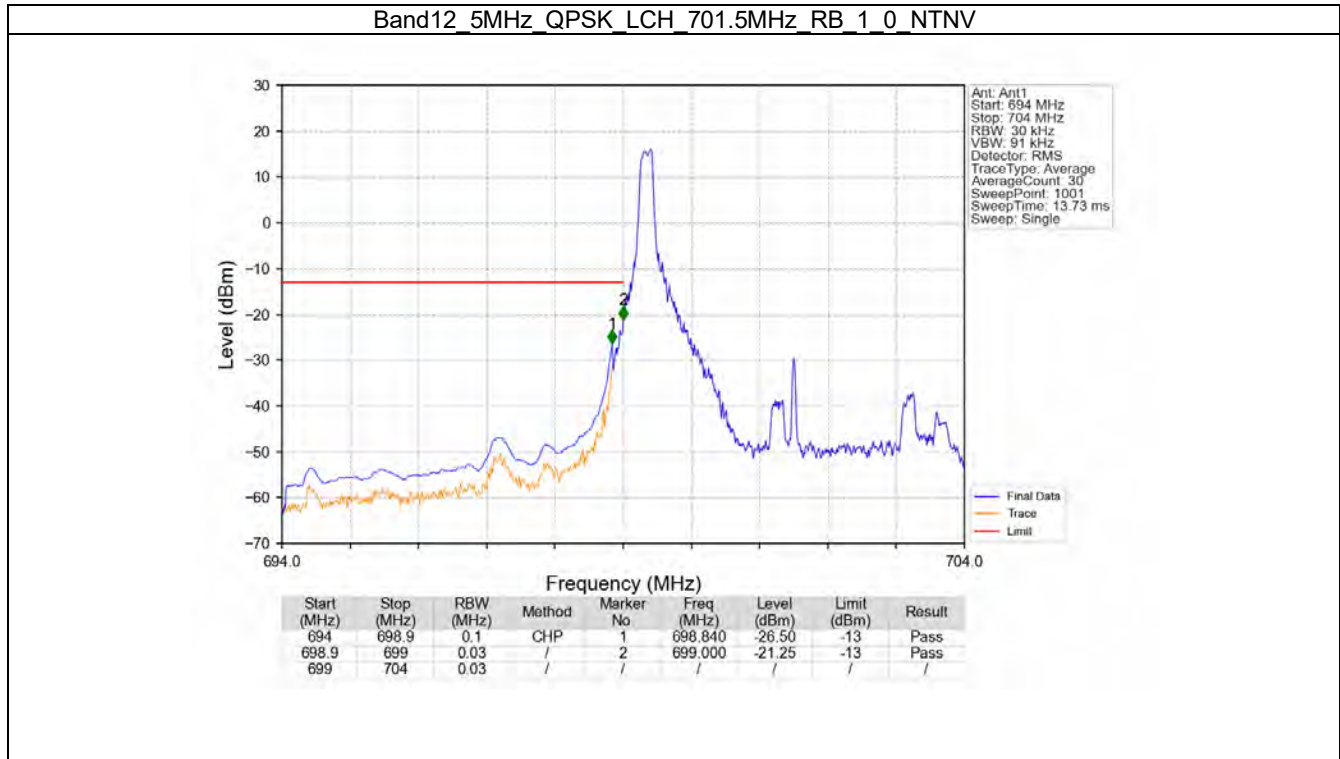
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5.3.2 Test Graph



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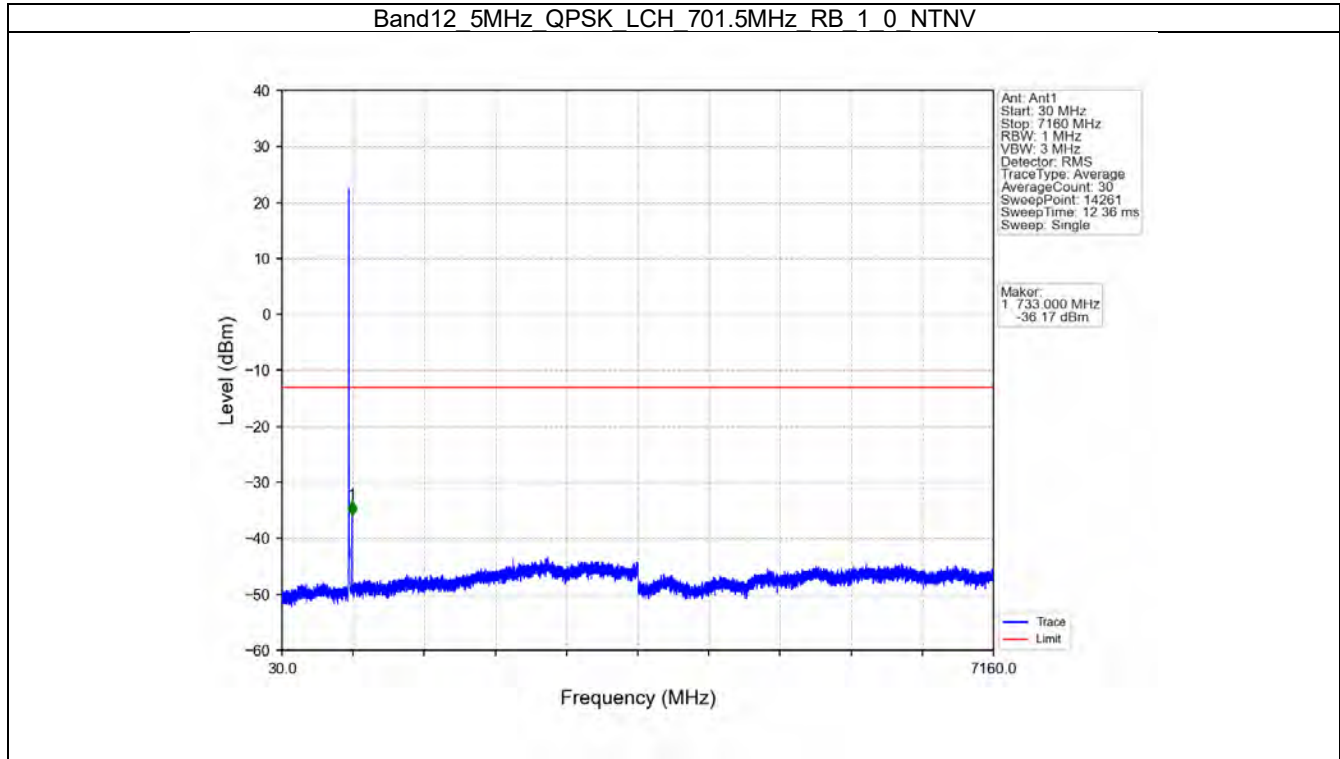
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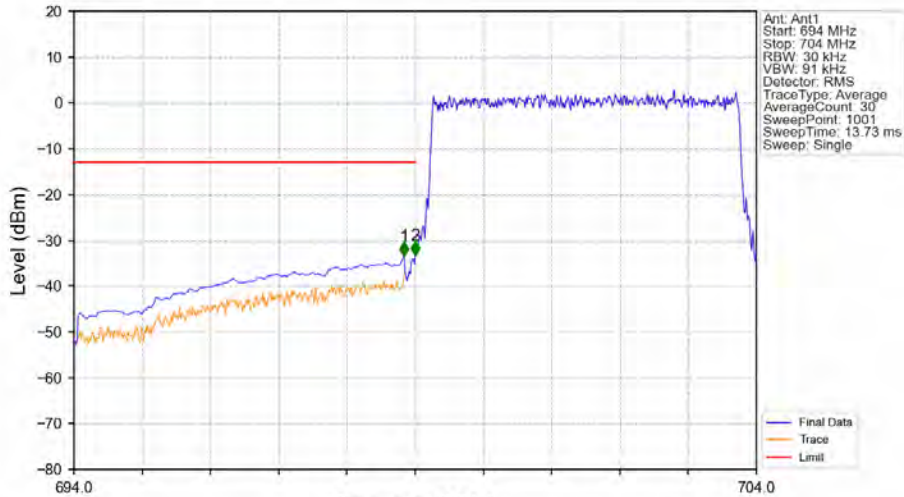


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Band12 5MHz QPSK LCH 701.5MHz RB 25 0 NTV



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	-33.51	-13	Pass
698.9	699	0.03	/	2	699.000	-33.27	-13	Pass
699	704	0.03	/	/	/	/	/	/



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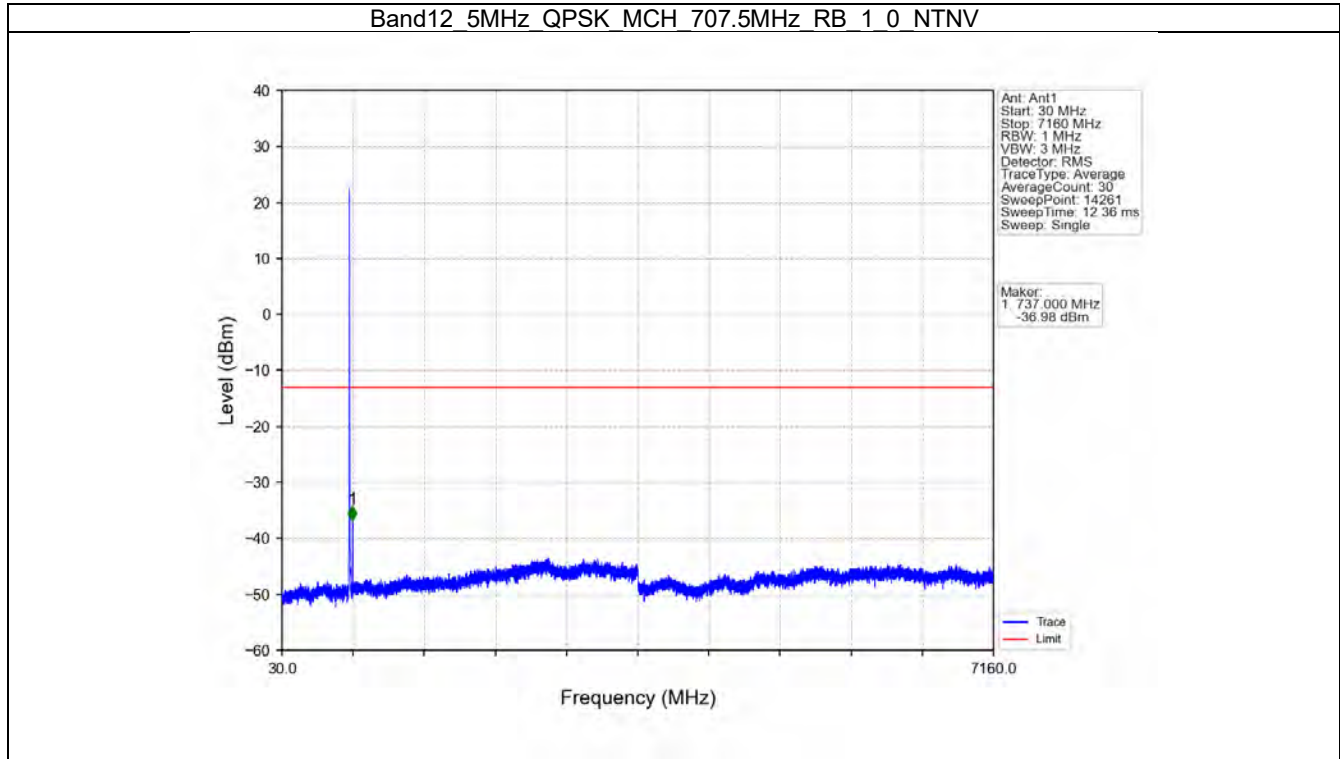
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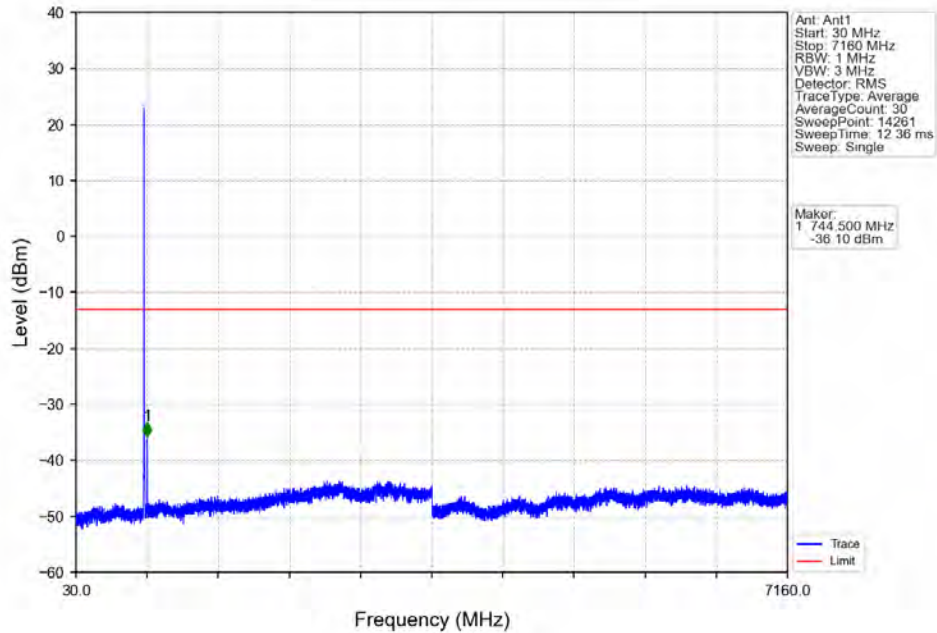


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Band12 5MHz QPSK HCH 713.5MHz RB 1 0 NTN



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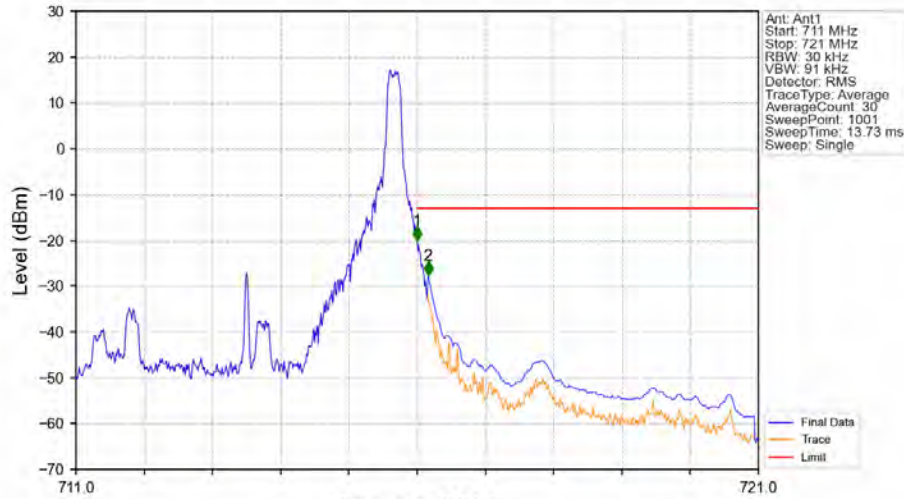
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Band12 5MHz QPSK HCH 713.5MHz RB 1 24 NTV



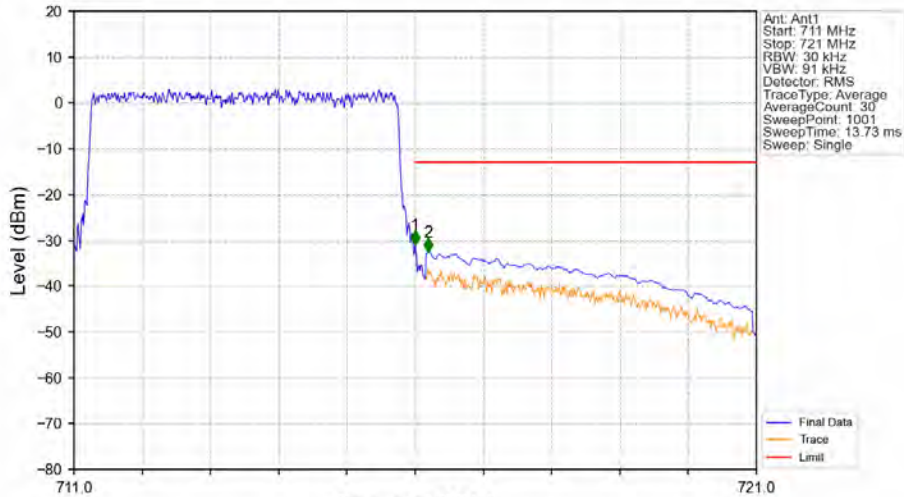
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-20.14	-13	Pass
716.1	721	0.1	CHP	2	716.160	-27.64	-13	Pass



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Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTV



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	716.000	-30.98	-13	Pass
716.1	721	0.1	CHP	2	716.190	-32.50	-13	Pass



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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
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



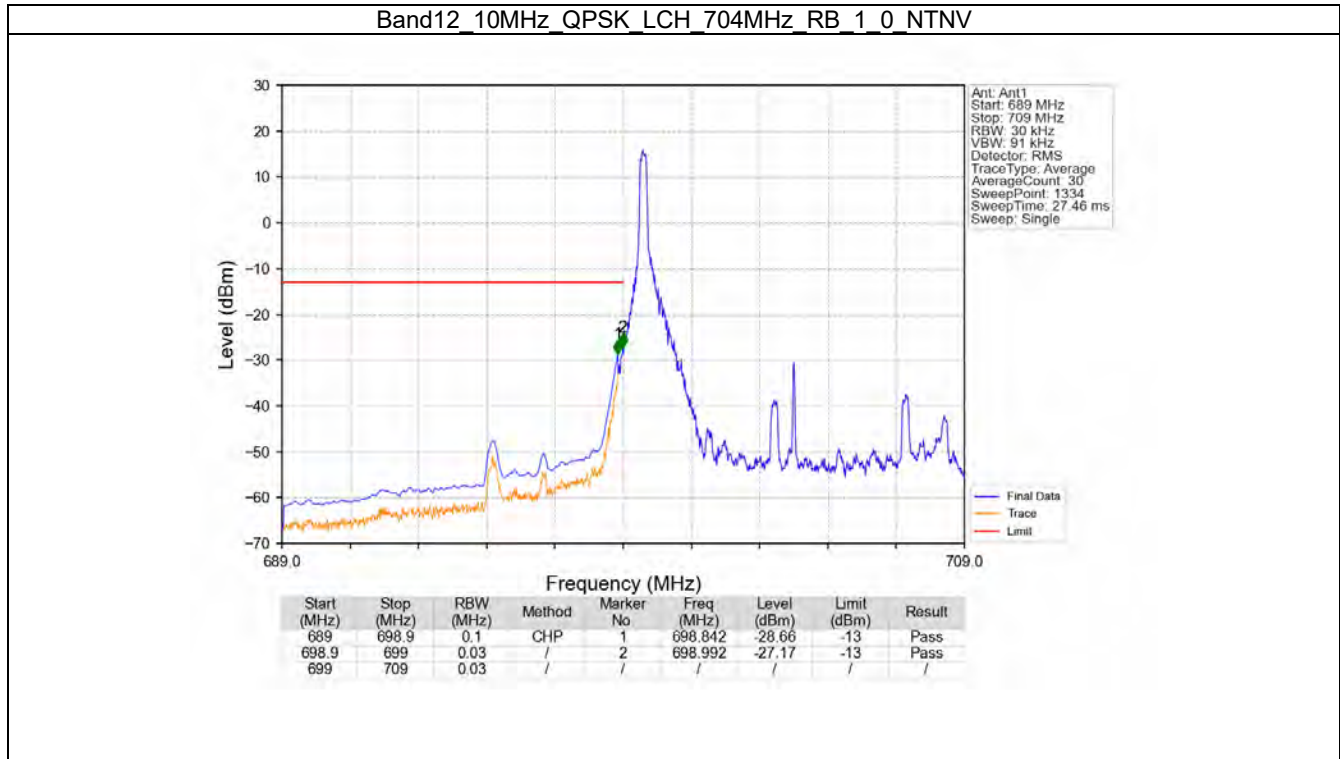
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5.4.2 Test Graph



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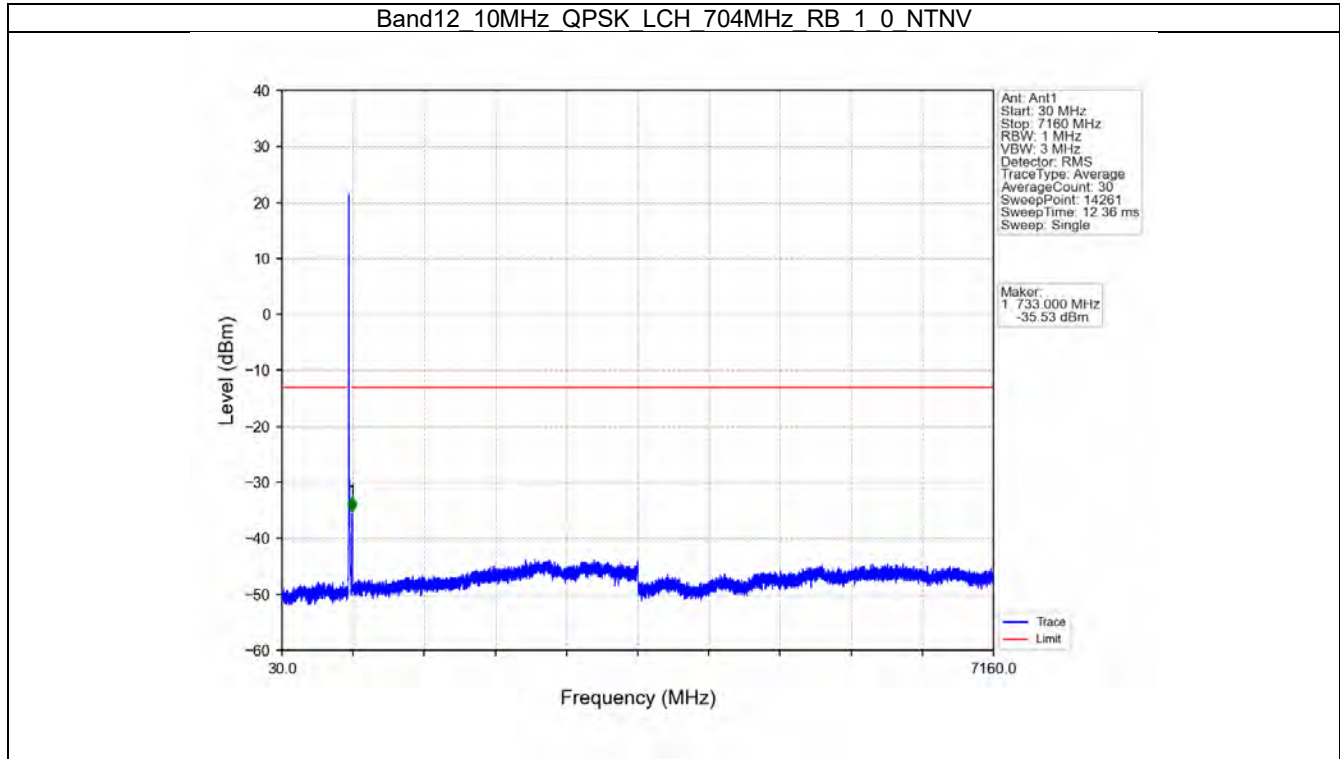
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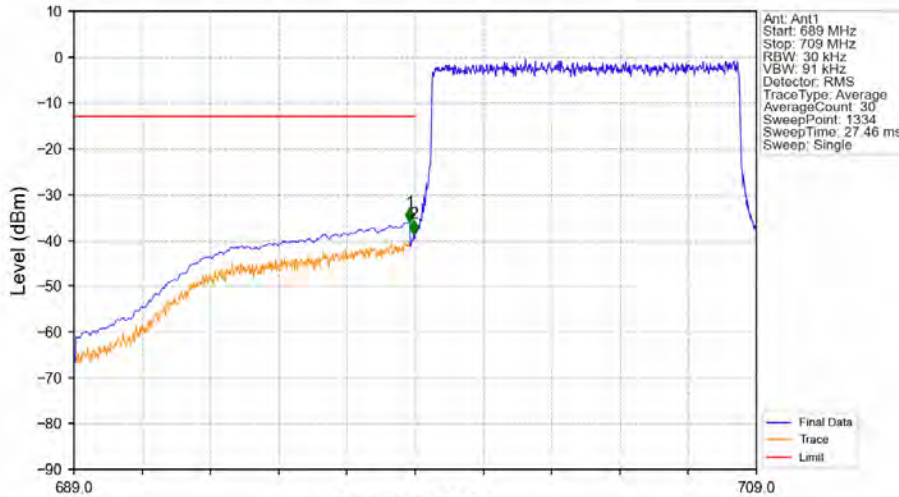
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Band12 10MHz QPSK LCH 704MHz RB 50 0 NTN



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	-36.02	-13	Pass
698.9	699	0.03	/	2	698.962	-38.59	-13	Pass
699	709	0.03	/	/	/	/	/	/



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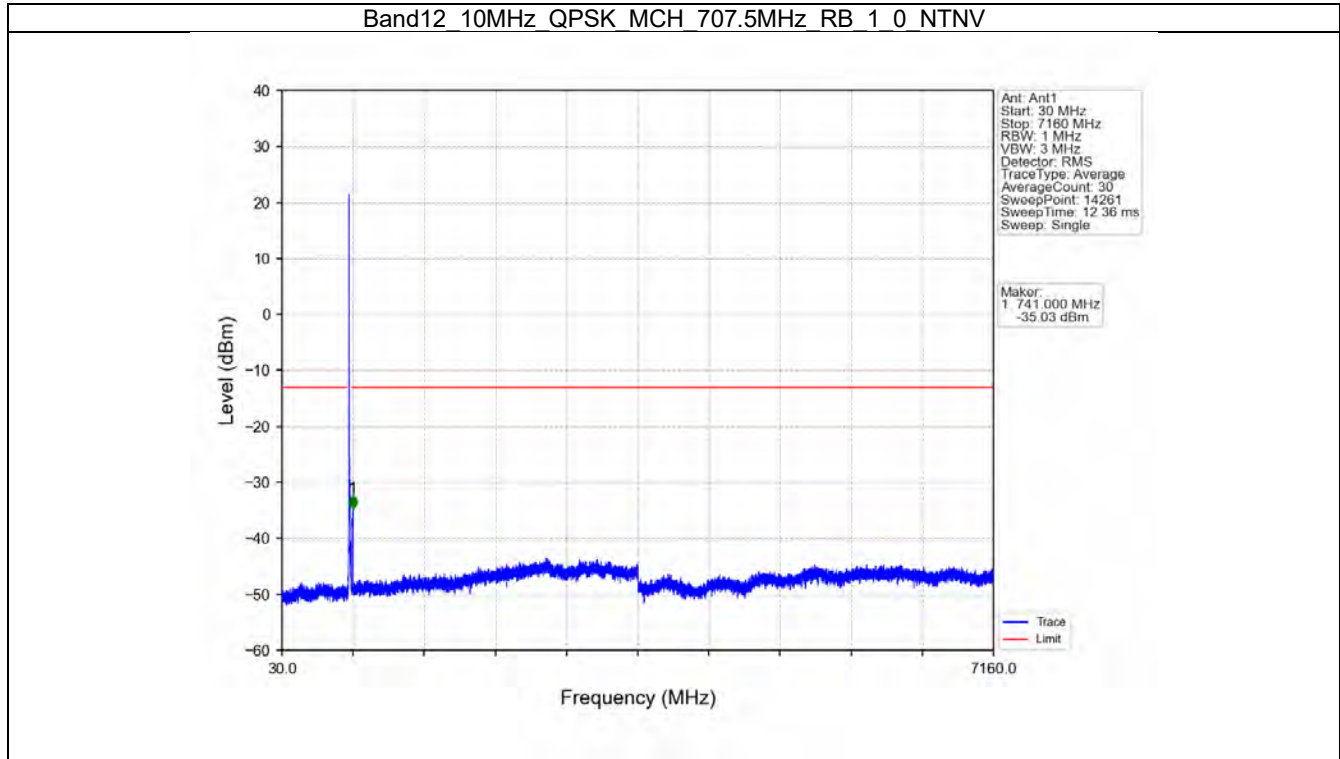
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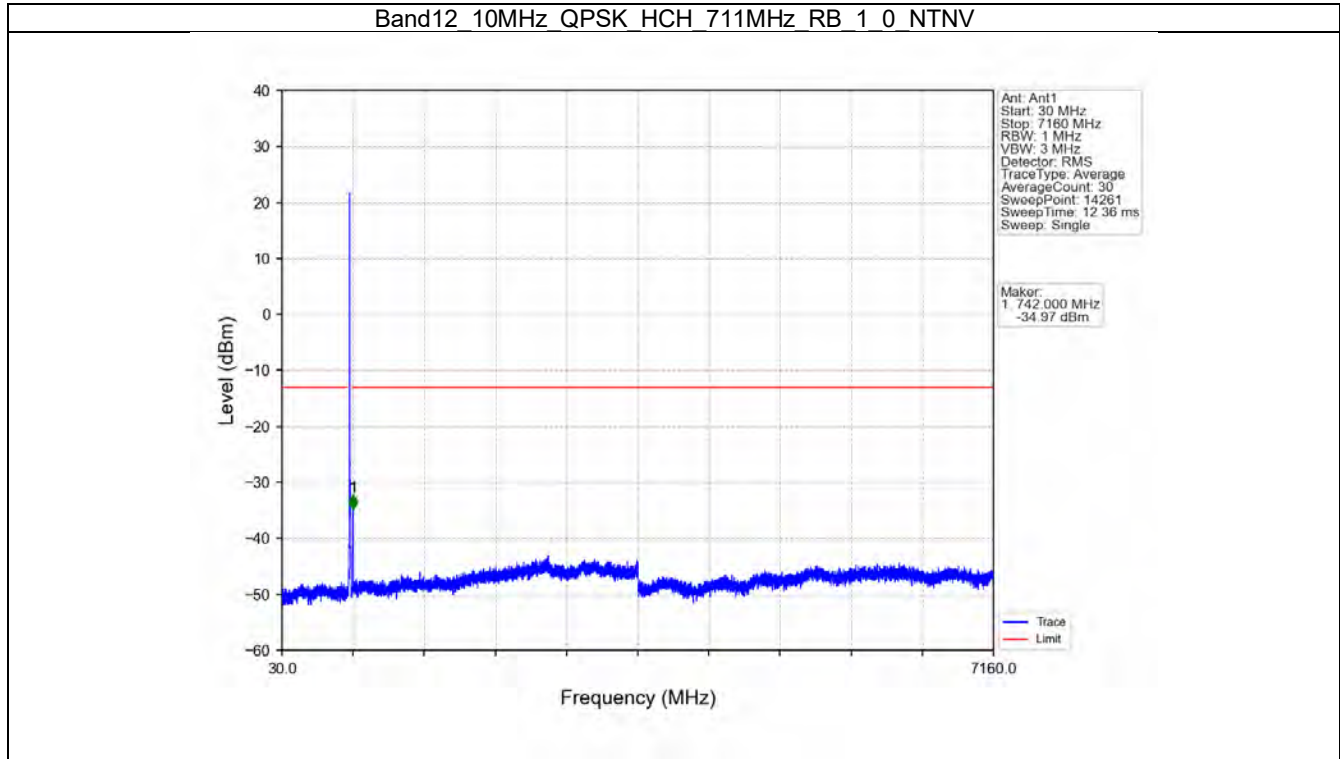
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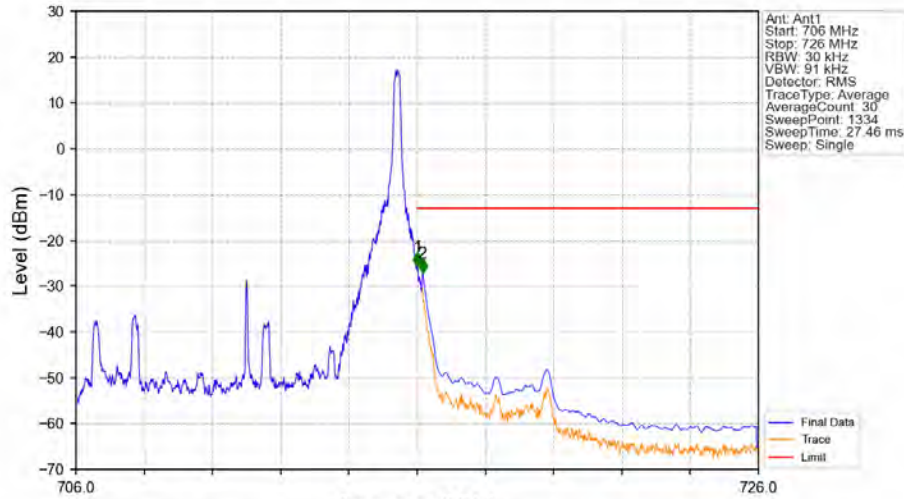


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Band12 10MHz QPSK HCH 711MHz RB 1 49 NTNV



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	-25.72	-13	Pass
716.1	726	0.1	CHP	2	716.158	-27.18	-13	Pass



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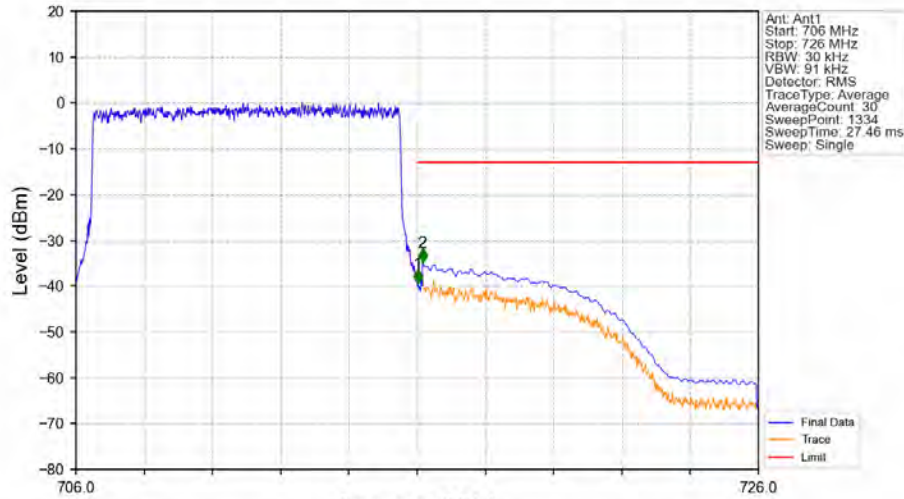
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Band12 10MHz QPSK HCH 711MHz RB 50 0 NTNV



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	716.023	-39.49	-13	Pass
716.1	726	0.1	CHP	2	716.158	-34.83	-13	Pass



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6. Field Strength of Spurious Radiation

Test Band = LTE Band12_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.1800	42.92	-48.00	25.10	-75.24	-13.00	62.24	Horizontal
2	2098.7700	42.51	-47.71	26.18	-74.29	-13.00	61.29	Horizontal
3	2798.3600	41.83	-46.92	27.90	-72.45	-13.00	59.45	Horizontal
4	3497.9500	41.62	-46.54	28.60	-71.58	-13.00	58.58	Horizontal
5	4197.5400	40.11	-45.96	29.57	-71.53	-13.00	58.53	Horizontal
6	4897.1300	40.80	-45.58	31.17	-68.87	-13.00	55.87	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.1800	41.36	-48.00	25.10	-76.80	-13.00	63.80	Vertical
2	2098.7700	42.34	-47.71	26.18	-74.46	-13.00	61.46	Vertical
3	2798.3600	41.40	-46.92	27.90	-72.88	-13.00	59.88	Vertical
4	3497.9500	42.48	-46.54	28.60	-70.72	-13.00	57.72	Vertical
5	4197.5400	39.93	-45.96	29.57	-71.71	-13.00	58.71	Vertical
6	4897.1300	40.65	-45.58	31.17	-69.02	-13.00	56.02	Vertical



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Test Band = LTE Band12_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.1800	42.87	-48.02	25.10	-75.31	-13.00	62.31	Horizontal
2	2109.2700	41.99	-47.71	26.21	-74.77	-13.00	61.77	Horizontal
3	2812.3600	41.67	-46.88	27.93	-72.54	-13.00	59.54	Horizontal
4	3515.4500	41.53	-46.51	28.62	-71.62	-13.00	58.62	Horizontal
5	4218.5400	40.11	-45.93	29.63	-71.45	-13.00	58.45	Horizontal
6	4921.6300	41.21	-45.63	31.23	-68.45	-13.00	55.45	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.1800	43.33	-48.02	25.10	-74.85	-13.00	61.85	Vertical
2	2109.2700	42.04	-47.71	26.21	-74.72	-13.00	61.72	Vertical
3	2812.3600	41.51	-46.88	27.93	-72.70	-13.00	59.70	Vertical
4	3515.4500	41.57	-46.51	28.62	-71.58	-13.00	58.58	Vertical
5	4218.5400	39.78	-45.93	29.63	-71.78	-13.00	58.78	Vertical
6	4921.6300	41.59	-45.63	31.23	-68.07	-13.00	55.07	Vertical



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Test Band = LTE Band12_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	45.65	-48.04	25.11	-72.55	-13.00	59.55	Horizontal
2	2119.7700	42.78	-47.70	26.24	-73.95	-13.00	60.95	Horizontal
3	2826.3600	41.72	-46.83	27.95	-72.41	-13.00	59.41	Horizontal
4	3532.9500	41.49	-46.47	28.63	-71.61	-13.00	58.61	Horizontal
5	4239.5400	40.24	-45.89	29.68	-71.23	-13.00	58.23	Horizontal
6	4946.1300	40.91	-45.69	31.28	-68.75	-13.00	55.75	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	42.11	-48.04	25.11	-76.09	-13.00	63.09	Vertical
2	2119.7700	44.13	-47.70	26.24	-72.60	-13.00	59.60	Vertical
3	2826.3600	41.12	-46.83	27.95	-73.01	-13.00	60.01	Vertical
4	3532.9500	40.74	-46.47	28.63	-72.36	-13.00	59.36	Vertical
5	4239.5400	39.93	-45.89	29.68	-71.54	-13.00	58.54	Vertical
6	4946.1300	41.35	-45.69	31.28	-68.31	-13.00	55.31	Vertical



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Test Band = 2A_12A_TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4566.75	40.81	-45.68	30.45	-69.69	-13.00	56.69	Horizontal
2	5475.75	40.45	-45.25	32.54	-67.52	-13.00	54.52	Horizontal
3	6982.5	39.01	-43.65	35.17	-64.73	-13.00	51.73	Horizontal
4	8097.75	36.45	-41.38	36.75	-63.44	-13.00	50.44	Horizontal
5	10273.5	32.84	-39.20	38.34	-63.28	-13.00	50.28	Horizontal
6	12859.5	29.50	-37.00	39.06	-63.70	-13.00	50.70	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4521.75	40.74	-45.70	30.35	-69.87	-13.00	56.87	Vertical
2	5795.25	39.80	-44.75	32.66	-67.56	-13.00	54.56	Vertical
3	8393.25	37.67	-41.49	36.60	-62.47	-13.00	49.47	Vertical
4	10692	31.33	-37.93	38.55	-63.31	-13.00	50.31	Vertical
5	13330.5	29.20	-36.71	39.69	-63.07	-13.00	50.07	Vertical
6	14553	28.17	-35.08	41.12	-61.05	-13.00	48.05	Vertical



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Test Band = 2A_12A_TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3923.25	41.55	-46.22	29.02	-70.91	-13.00	57.91	Horizontal
2	5487.75	40.44	-45.25	32.57	-67.50	-13.00	54.50	Horizontal
3	6341.25	39.68	-44.49	33.79	-66.27	-13.00	53.27	Horizontal
4	8706	37.04	-41.66	36.45	-63.44	-13.00	50.44	Horizontal
5	10377	32.81	-39.03	38.39	-63.09	-13.00	50.09	Horizontal
6	12900	29.50	-37.11	39.07	-63.80	-13.00	50.80	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3873	41.57	-46.18	28.97	-70.90	-13.00	57.90	Vertical
2	5031	40.43	-45.56	31.47	-68.91	-13.00	55.91	Vertical
3	5973	40.41	-44.87	32.69	-67.02	-13.00	54.02	Vertical
4	7230	38.87	-43.52	35.84	-64.07	-13.00	51.07	Vertical
5	8978.25	36.27	-41.05	36.31	-63.73	-13.00	50.73	Vertical
6	11603.25	29.35	-36.90	38.76	-64.05	-13.00	51.05	Vertical



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Test Band = 2A_12A_TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4608	40.85	-45.66	30.54	-69.54	-13.00	56.54	Horizontal
2	5816.25	39.78	-44.79	32.66	-67.60	-13.00	54.60	Horizontal
3	6945	39.10	-43.85	35.10	-64.91	-13.00	51.91	Horizontal
4	8418.75	37.81	-41.48	36.59	-62.34	-13.00	49.34	Horizontal
5	10024.5	34.00	-39.21	38.21	-62.26	-13.00	49.26	Horizontal
6	12208.5	29.31	-37.48	38.86	-64.57	-13.00	51.57	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4272.75	40.88	-45.60	29.75	-70.23	-13.00	57.23	Vertical
2	5712	40.32	-44.84	32.64	-67.14	-13.00	54.14	Vertical
3	7395	39.07	-43.43	36.31	-63.31	-13.00	50.31	Vertical
4	8691.75	36.71	-41.66	36.45	-63.76	-13.00	50.76	Vertical
5	10869	31.13	-38.06	38.63	-63.55	-13.00	50.55	Vertical
6	13322.25	28.59	-36.75	39.68	-63.74	-13.00	50.74	Vertical



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Test Band = 12A_66A_TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4064.25	41.28	-45.86	29.25	-70.59	-13.00	57.59	Horizontal
2	4936.5	40.86	-45.57	31.26	-68.71	-13.00	55.71	Horizontal
3	6357.75	39.37	-44.46	33.84	-66.51	-13.00	53.51	Horizontal
4	8037	36.95	-41.98	36.78	-63.51	-13.00	50.51	Horizontal
5	10476	32.35	-38.85	38.44	-63.32	-13.00	50.32	Horizontal
6	12504.75	28.98	-36.98	38.95	-64.31	-13.00	51.31	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4596	40.68	-45.67	30.51	-69.74	-13.00	56.74	Vertical
2	5970	40.33	-44.87	32.69	-67.11	-13.00	54.11	Vertical
3	7127.25	38.89	-43.99	35.56	-64.81	-13.00	51.81	Vertical
4	8665.5	37.00	-41.57	36.47	-63.36	-13.00	50.36	Vertical
5	10627.5	31.90	-38.31	38.51	-63.15	-13.00	50.15	Vertical
6	12659.25	29.30	-37.06	39.00	-64.03	-13.00	51.03	Vertical



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Test Band = 12A_66A_TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4098.75	41.14	-45.76	29.34	-70.55	-13.00	57.55	Horizontal
2	5244.75	40.47	-45.19	31.99	-68.00	-13.00	55.00	Horizontal
3	7269.75	38.57	-43.65	35.96	-64.38	-13.00	51.38	Horizontal
4	8849.25	36.19	-41.25	36.38	-63.94	-13.00	50.94	Horizontal
5	11223.75	31.02	-37.40	38.72	-62.91	-13.00	49.91	Horizontal
6	13716.75	30.16	-36.20	40.39	-60.91	-13.00	47.91	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4289.25	40.88	-45.56	29.79	-70.15	-13.00	57.15	Vertical
2	5731.5	39.88	-44.82	32.65	-67.55	-13.00	54.55	Vertical
3	6795.75	39.47	-44.15	34.83	-65.11	-13.00	52.11	Vertical
4	8821.5	36.17	-41.25	36.39	-63.95	-13.00	50.95	Vertical
5	10706.25	31.52	-37.93	38.55	-63.11	-13.00	50.11	Vertical
6	13671	29.26	-36.14	40.31	-61.83	-13.00	48.83	Vertical



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Test Band = 12A_66A_TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3934.5	41.23	-46.20	29.03	-71.19	-13.00	58.19	Horizontal
2	4878	41.45	-45.53	31.13	-68.21	-13.00	55.21	Horizontal
3	6093.75	40.16	-44.47	33.00	-66.57	-13.00	53.57	Horizontal
4	7800.75	38.04	-42.31	36.72	-62.81	-13.00	49.81	Horizontal
5	9846.75	33.68	-39.41	37.91	-63.08	-13.00	50.08	Horizontal
6	12150.75	29.62	-37.42	38.85	-64.21	-13.00	51.21	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3984	41.64	-46.08	29.08	-70.61	-13.00	57.61	Vertical
2	5423.25	40.55	-45.29	32.42	-67.58	-13.00	54.58	Vertical
3	6732.75	39.84	-43.93	34.72	-64.63	-13.00	51.63	Vertical
4	8175	37.10	-42.08	36.71	-63.53	-13.00	50.53	Vertical
5	10080.75	33.00	-39.14	38.24	-63.16	-13.00	50.16	Vertical
6	12493.5	29.23	-36.99	38.95	-64.07	-13.00	51.07	Vertical



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Test Band = 4A_12A_TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4431	41.12	-45.79	30.13	-69.79	-13.00	56.79	Horizontal
2	6687	39.37	-43.88	34.64	-65.13	-13.00	52.13	Horizontal
3	9324	35.32	-40.13	36.92	-63.15	-13.00	50.15	Horizontal
4	11735.25	28.60	-36.95	38.77	-64.84	-13.00	51.84	Horizontal
5	15153.75	28.40	-34.40	40.98	-60.28	-13.00	47.28	Horizontal
6	16343.25	29.03	-34.57	40.26	-60.54	-13.00	47.54	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4566.75	40.71	-45.68	30.45	-69.79	-13.00	56.79	Vertical
2	6459	39.49	-44.53	34.17	-66.13	-13.00	53.13	Vertical
3	8174.25	37.20	-42.07	36.71	-63.42	-13.00	50.42	Vertical
4	10239	33.16	-39.34	38.32	-63.12	-13.00	50.12	Vertical
5	12660.75	29.96	-37.05	39.00	-63.35	-13.00	50.35	Vertical
6	14337.75	29.05	-35.65	41.04	-60.82	-13.00	47.82	Vertical



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Test Band = 4A_12A_TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4259.25	40.94	-45.63	29.72	-70.23	-13.00	57.23	Horizontal
2	5085	40.42	-45.41	31.60	-68.65	-13.00	55.65	Horizontal
3	6027	40.04	-44.73	32.79	-67.16	-13.00	54.16	Horizontal
4	7830	38.17	-42.46	36.73	-62.82	-13.00	49.82	Horizontal
5	10367.25	32.97	-39.04	38.38	-62.94	-13.00	49.94	Horizontal
6	13706.25	29.58	-36.18	40.37	-61.48	-13.00	48.48	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.25	41.20	-45.97	28.92	-71.12	-13.00	58.12	Vertical
2	5550	40.46	-45.16	32.61	-67.35	-13.00	54.35	Vertical
3	7218.75	38.20	-43.48	35.81	-64.73	-13.00	51.73	Vertical
4	8972.25	36.58	-41.07	36.31	-63.43	-13.00	50.43	Vertical
5	11298	30.82	-37.42	38.73	-63.13	-13.00	50.13	Vertical
6	13703.25	29.85	-36.17	40.37	-61.21	-13.00	48.21	Vertical



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Test Band = 4A_12A_TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4614.75	40.44	-45.66	30.55	-69.93	-13.00	56.93	Horizontal
2	5976.75	41.08	-44.86	32.70	-66.35	-13.00	53.35	Horizontal
3	7416	39.60	-43.37	36.36	-62.66	-13.00	49.66	Horizontal
4	9015	35.81	-40.90	36.33	-64.02	-13.00	51.02	Horizontal
5	11271	30.33	-37.41	38.73	-63.61	-13.00	50.61	Horizontal
6	13603.5	29.39	-36.08	40.19	-61.77	-13.00	48.77	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3816	41.24	-45.98	28.92	-71.08	-13.00	58.08	Vertical
2	5235	40.22	-45.21	31.96	-68.29	-13.00	55.29	Vertical
3	6100.5	39.32	-44.45	33.02	-67.37	-13.00	54.37	Vertical
4	7642.5	38.65	-43.01	36.66	-62.96	-13.00	49.96	Vertical
5	8550.75	36.82	-41.47	36.52	-63.39	-13.00	50.39	Vertical
6	12654	30.06	-37.11	39.00	-63.32	-13.00	50.32	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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