

Appendix N for KSCR2205000668AT-FCC-LTE-Band12

1. Effective (Isotropic) Radiated Power Output Data

1.1 B12_1.4MHz_ERP

1.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	699.7	1	0	23.82	-3.40	18.27	<=34.77	Pass
			2	23.92	-3.40	18.37	<=34.77	Pass
			5	23.78	-3.40	18.23	<=34.77	Pass
		3	0	23.76	-3.40	18.21	<=34.77	Pass
			2	23.65	-3.40	18.10	<=34.77	Pass
			3	23.55	-3.40	18.00	<=34.77	Pass
		6	0	22.52	-3.40	16.97	<=34.77	Pass
			0	23.86	-3.40	18.31	<=34.77	Pass
			2	23.98	-3.40	18.43	<=34.77	Pass
	707.5	1	5	23.83	-3.40	18.28	<=34.77	Pass
			0	23.82	-3.40	18.27	<=34.77	Pass
			2	23.88	-3.40	18.33	<=34.77	Pass
		3	3	23.82	-3.40	18.27	<=34.77	Pass
			0	22.92	-3.40	17.37	<=34.77	Pass
			0	23.88	-3.40	18.33	<=34.77	Pass
		6	0	24.00	-3.40	18.45	<=34.77	Pass
			2	23.82	-3.40	18.27	<=34.77	Pass
			0	23.91	-3.40	18.36	<=34.77	Pass
	715.3	1	2	23.85	-3.40	18.30	<=34.77	Pass
			3	23.83	-3.40	18.28	<=34.77	Pass
			0	22.93	-3.40	17.38	<=34.77	Pass
		3	0	22.60	-3.40	17.05	<=34.77	Pass
			2	22.80	-3.40	17.25	<=34.77	Pass
			5	22.62	-3.40	17.07	<=34.77	Pass
6		0	22.61	-3.40	17.06	<=34.77	Pass	
		2	22.56	-3.40	17.01	<=34.77	Pass	
		3	22.46	-3.40	16.91	<=34.77	Pass	
16QAM	699.7	1	0	21.55	-3.40	16.00	<=34.77	Pass
			0	22.83	-3.40	17.28	<=34.77	Pass
			2	22.84	-3.40	17.29	<=34.77	Pass
		3	5	22.85	-3.40	17.30	<=34.77	Pass
			0	22.84	-3.40	17.29	<=34.77	Pass
			2	22.94	-3.40	17.39	<=34.77	Pass
		6	3	22.87	-3.40	17.32	<=34.77	Pass
			0	21.82	-3.40	16.27	<=34.77	Pass
			0	22.77	-3.40	17.22	<=34.77	Pass
	707.5	1	2	22.85	-3.40	17.30	<=34.77	Pass
			5	22.77	-3.40	17.22	<=34.77	Pass
			0	23.01	-3.40	17.46	<=34.77	Pass
		3	2	23.00	-3.40	17.45	<=34.77	Pass
			3	23.00	-3.40	17.45	<=34.77	Pass

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64QAM	699.7	6	0	21.90	-3.40	16.35	<=34.77	Pass	
			1	0	21.70	-3.40	16.15	<=34.77	Pass
				2	21.84	-3.40	16.29	<=34.77	Pass
		3	5	21.74	-3.40	16.19	<=34.77	Pass	
			0	21.91	-3.40	16.36	<=34.77	Pass	
			2	21.90	-3.40	16.35	<=34.77	Pass	
		6	3	21.79	-3.40	16.24	<=34.77	Pass	
			0	21.15	-3.40	15.60	<=34.77	Pass	
			0	21.71	-3.40	16.16	<=34.77	Pass	
	707.5	1	2	21.74	-3.40	16.19	<=34.77	Pass	
			5	21.70	-3.40	16.15	<=34.77	Pass	
			0	21.82	-3.40	16.27	<=34.77	Pass	
		3	2	21.87	-3.40	16.32	<=34.77	Pass	
			3	21.86	-3.40	16.31	<=34.77	Pass	
			0	21.03	-3.40	15.48	<=34.77	Pass	
		715.3	1	0	22.12	-3.40	16.57	<=34.77	Pass
				2	22.28	-3.40	16.73	<=34.77	Pass
				5	22.12	-3.40	16.57	<=34.77	Pass
	3		0	22.10	-3.40	16.55	<=34.77	Pass	
			2	22.09	-3.40	16.54	<=34.77	Pass	
			3	22.06	-3.40	16.51	<=34.77	Pass	
	6		0	20.98	-3.40	15.43	<=34.77	Pass	

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.2 B12_3MHz_ERP

1.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	700.5	1	0	23.88	-3.40	18.33	<=34.77	Pass	
			7	23.96	-3.40	18.41	<=34.77	Pass	
			14	23.80	-3.40	18.25	<=34.77	Pass	
		8	0	22.76	-3.40	17.21	<=34.77	Pass	
			4	22.78	-3.40	17.23	<=34.77	Pass	
			7	22.78	-3.40	17.23	<=34.77	Pass	
		15	0	22.72	-3.40	17.17	<=34.77	Pass	
		707.5	1	0	23.87	-3.40	18.32	<=34.77	Pass
				7	24.01	-3.40	18.46	<=34.77	Pass
	14			23.82	-3.40	18.27	<=34.77	Pass	
	8		0	22.88	-3.40	17.33	<=34.77	Pass	
			4	22.91	-3.40	17.36	<=34.77	Pass	
			7	22.87	-3.40	17.32	<=34.77	Pass	
	15		0	22.86	-3.40	17.31	<=34.77	Pass	
	714.5		1	0	23.93	-3.40	18.38	<=34.77	Pass
				7	24.10	-3.40	18.55	<=34.77	Pass
		14		23.98	-3.40	18.43	<=34.77	Pass	
		8	0	22.90	-3.40	17.35	<=34.77	Pass	
			4	22.94	-3.40	17.39	<=34.77	Pass	
			7	22.92	-3.40	17.37	<=34.77	Pass	
		15	0	22.90	-3.40	17.35	<=34.77	Pass	

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16QAM	700.5	1	0	23.09	-3.40	17.54	<=34.77	Pass		
			7	23.12	-3.40	17.57	<=34.77	Pass		
			14	23.07	-3.40	17.52	<=34.77	Pass		
		8	0	21.74	-3.40	16.19	<=34.77	Pass		
			4	21.95	-3.40	16.40	<=34.77	Pass		
			7	21.87	-3.40	16.32	<=34.77	Pass		
		15	0	21.83	-3.40	16.28	<=34.77	Pass		
		707.5	1	0	23.01	-3.40	17.46	<=34.77	Pass	
				7	23.17	-3.40	17.62	<=34.77	Pass	
	14			22.92	-3.40	17.37	<=34.77	Pass		
	8		0	21.84	-3.40	16.29	<=34.77	Pass		
			4	21.87	-3.40	16.32	<=34.77	Pass		
			7	21.83	-3.40	16.28	<=34.77	Pass		
	15		0	21.83	-3.40	16.28	<=34.77	Pass		
	714.5		1	0	22.83	-3.40	17.28	<=34.77	Pass	
				7	22.97	-3.40	17.42	<=34.77	Pass	
		14		22.77	-3.40	17.22	<=34.77	Pass		
		8	0	21.96	-3.40	16.41	<=34.77	Pass		
			4	21.99	-3.40	16.44	<=34.77	Pass		
			7	21.96	-3.40	16.41	<=34.77	Pass		
		15	0	21.92	-3.40	16.37	<=34.77	Pass		
		64QAM	700.5	1	0	22.02	-3.40	16.47	<=34.77	Pass
					7	22.17	-3.40	16.62	<=34.77	Pass
	14				22.01	-3.40	16.46	<=34.77	Pass	
8	0			21.03	-3.40	15.48	<=34.77	Pass		
	4			21.06	-3.40	15.51	<=34.77	Pass		
	7			21.01	-3.40	15.46	<=34.77	Pass		
15	0			20.88	-3.40	15.33	<=34.77	Pass		
707.5	1			0	21.90	-3.40	16.35	<=34.77	Pass	
				7	22.04	-3.40	16.49	<=34.77	Pass	
			14	21.89	-3.40	16.34	<=34.77	Pass		
	8		0	20.84	-3.40	15.29	<=34.77	Pass		
			4	20.87	-3.40	15.32	<=34.77	Pass		
			7	20.83	-3.40	15.28	<=34.77	Pass		
	15		0	21.06	-3.40	15.51	<=34.77	Pass		
	714.5		1	0	21.73	-3.40	16.18	<=34.77	Pass	
				7	21.89	-3.40	16.34	<=34.77	Pass	
14				21.66	-3.40	16.11	<=34.77	Pass		
8			0	21.00	-3.40	15.45	<=34.77	Pass		
			4	21.00	-3.40	15.45	<=34.77	Pass		
			7	20.96	-3.40	15.41	<=34.77	Pass		
15			0	20.96	-3.40	15.41	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.3 B12_5MHz_ERP

1.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	23.75	-3.40	18.20	<=34.77	Pass



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	707.5	12	13	23.84	-3.40	18.29	<=34.77	Pass		
			24	23.74	-3.40	18.19	<=34.77	Pass		
			0	22.76	-3.40	17.21	<=34.77	Pass		
		12	6	22.80	-3.40	17.25	<=34.77	Pass		
			13	22.70	-3.40	17.15	<=34.77	Pass		
			25	0	22.61	-3.40	17.06	<=34.77	Pass	
		1	0	23.75	-3.40	18.20	<=34.77	Pass		
			13	23.88	-3.40	18.33	<=34.77	Pass		
			24	23.71	-3.40	18.16	<=34.77	Pass		
		12	0	22.79	-3.40	17.24	<=34.77	Pass		
			6	22.91	-3.40	17.36	<=34.77	Pass		
			13	22.76	-3.40	17.21	<=34.77	Pass		
	25	0	22.77	-3.40	17.22	<=34.77	Pass			
		713.5	1	0	23.77	-3.40	18.22	<=34.77	Pass	
				13	23.92	-3.40	18.37	<=34.77	Pass	
	24			23.78	-3.40	18.23	<=34.77	Pass		
	12	0	22.84	-3.40	17.29	<=34.77	Pass			
		6	22.89	-3.40	17.34	<=34.77	Pass			
		13	22.83	-3.40	17.28	<=34.77	Pass			
	25	0	22.84	-3.40	17.29	<=34.77	Pass			
		16QAM	701.5	1	0	22.37	-3.40	16.82	<=34.77	Pass
					13	22.48	-3.40	16.93	<=34.77	Pass
	24				22.25	-3.40	16.70	<=34.77	Pass	
	12			0	21.69	-3.40	16.14	<=34.77	Pass	
6				21.74	-3.40	16.19	<=34.77	Pass		
13				21.74	-3.40	16.19	<=34.77	Pass		
25	0		21.77	-3.40	16.22	<=34.77	Pass			
	707.5		1	0	22.95	-3.40	17.40	<=34.77	Pass	
				13	23.02	-3.40	17.47	<=34.77	Pass	
24				22.85	-3.40	17.30	<=34.77	Pass		
12			0	21.84	-3.40	16.29	<=34.77	Pass		
			6	21.89	-3.40	16.34	<=34.77	Pass		
		13	21.78	-3.40	16.23	<=34.77	Pass			
25	0	21.83	-3.40	16.28	<=34.77	Pass				
	713.5	1	0	22.75	-3.40	17.20	<=34.77	Pass		
			13	22.87	-3.40	17.32	<=34.77	Pass		
24			22.82	-3.40	17.27	<=34.77	Pass			
12		0	21.80	-3.40	16.25	<=34.77	Pass			
		6	21.88	-3.40	16.33	<=34.77	Pass			
		13	21.77	-3.40	16.22	<=34.77	Pass			
25	0	21.87	-3.40	16.32	<=34.77	Pass				
	64QAM	701.5	1	0	21.65	-3.40	16.10	<=34.77	Pass	
				13	21.74	-3.40	16.19	<=34.77	Pass	
24				21.66	-3.40	16.11	<=34.77	Pass		
12			0	20.78	-3.40	15.23	<=34.77	Pass		
			6	20.85	-3.40	15.30	<=34.77	Pass		
			13	20.85	-3.40	15.30	<=34.77	Pass		
25		0	20.86	-3.40	15.31	<=34.77	Pass			
		707.5	1	0	21.88	-3.40	16.33	<=34.77	Pass	
				13	22.01	-3.40	16.46	<=34.77	Pass	
24				21.85	-3.40	16.30	<=34.77	Pass		
12			0	20.88	-3.40	15.33	<=34.77	Pass		
			6	20.94	-3.40	15.39	<=34.77	Pass		
	13		20.87	-3.40	15.32	<=34.77	Pass			



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	713.5	25	0	20.93	-3.40	15.38	<=34.77	Pass
		1	0	21.87	-3.40	16.32	<=34.77	Pass
			13	21.97	-3.40	16.42	<=34.77	Pass
			24	21.88	-3.40	16.33	<=34.77	Pass
		12	0	20.99	-3.40	15.44	<=34.77	Pass
			6	21.08	-3.40	15.53	<=34.77	Pass
			13	21.02	-3.40	15.47	<=34.77	Pass
		25	0	20.90	-3.40	15.35	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.4 B12_10MHz_ERP

1.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	704	1	0	23.83	-3.40	18.28	<=34.77	Pass		
			25	24.00	-3.40	18.45	<=34.77	Pass		
			49	23.77	-3.40	18.22	<=34.77	Pass		
		25	0	22.78	-3.40	17.23	<=34.77	Pass		
			13	22.81	-3.40	17.26	<=34.77	Pass		
			25	22.82	-3.40	17.27	<=34.77	Pass		
		50	0	22.84	-3.40	17.29	<=34.77	Pass		
		707.5	1	0	23.81	-3.40	18.26	<=34.77	Pass	
				25	23.96	-3.40	18.41	<=34.77	Pass	
	49			23.77	-3.40	18.22	<=34.77	Pass		
	25		0	22.80	-3.40	17.25	<=34.77	Pass		
			13	22.87	-3.40	17.32	<=34.77	Pass		
			25	22.78	-3.40	17.23	<=34.77	Pass		
	50	0	22.75	-3.40	17.20	<=34.77	Pass			
	711	1	0	23.88	-3.40	18.33	<=34.77	Pass		
			25	24.02	-3.40	18.47	<=34.77	Pass		
			49	23.91	-3.40	18.36	<=34.77	Pass		
		25	0	22.88	-3.40	17.33	<=34.77	Pass		
			13	22.87	-3.40	17.32	<=34.77	Pass		
			25	22.83	-3.40	17.28	<=34.77	Pass		
		50	0	22.87	-3.40	17.32	<=34.77	Pass		
		16QAM	704	1	0	23.14	-3.40	17.59	<=34.77	Pass
					25	23.34	-3.40	17.79	<=34.77	Pass
	49				23.21	-3.40	17.66	<=34.77	Pass	
25	0			21.73	-3.40	16.18	<=34.77	Pass		
	13			21.93	-3.40	16.38	<=34.77	Pass		
	25			21.94	-3.40	16.39	<=34.77	Pass		
50	0		21.83	-3.40	16.28	<=34.77	Pass			
707.5	1		0	22.82	-3.40	17.27	<=34.77	Pass		
			25	22.99	-3.40	17.44	<=34.77	Pass		
			49	22.79	-3.40	17.24	<=34.77	Pass		
	25		0	21.85	-3.40	16.30	<=34.77	Pass		
			13	21.91	-3.40	16.36	<=34.77	Pass		
			25	21.83	-3.40	16.28	<=34.77	Pass		
50	0		21.86	-3.40	16.31	<=34.77	Pass			

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64QAM	711	1	0	22.77	-3.40	17.22	<=34.77	Pass		
			25	22.90	-3.40	17.35	<=34.77	Pass		
			49	22.75	-3.40	17.20	<=34.77	Pass		
		25	0	21.97	-3.40	16.42	<=34.77	Pass		
			13	21.94	-3.40	16.39	<=34.77	Pass		
			25	21.88	-3.40	16.33	<=34.77	Pass		
	50	0	21.90	-3.40	16.35	<=34.77	Pass			
	704	704	1	0	22.00	-3.40	16.45	<=34.77	Pass	
				25	22.16	-3.40	16.61	<=34.77	Pass	
				49	21.98	-3.40	16.43	<=34.77	Pass	
			25	0	20.88	-3.40	15.33	<=34.77	Pass	
				13	20.96	-3.40	15.41	<=34.77	Pass	
				25	20.98	-3.40	15.43	<=34.77	Pass	
		50	0	20.94	-3.40	15.39	<=34.77	Pass		
		707.5	707.5	1	0	21.86	-3.40	16.31	<=34.77	Pass
					25	22.01	-3.40	16.46	<=34.77	Pass
					49	21.83	-3.40	16.28	<=34.77	Pass
				25	0	21.00	-3.40	15.45	<=34.77	Pass
13					21.04	-3.40	15.49	<=34.77	Pass	
25					21.00	-3.40	15.45	<=34.77	Pass	
50			0	20.95	-3.40	15.40	<=34.77	Pass		
711			711	1	0	21.69	-3.40	16.14	<=34.77	Pass
					25	21.79	-3.40	16.24	<=34.77	Pass
					49	21.62	-3.40	16.07	<=34.77	Pass
			25	0	21.04	-3.40	15.49	<=34.77	Pass	
	13			21.00	-3.40	15.45	<=34.77	Pass		
	25	20.98		-3.40	15.43	<=34.77	Pass			
50	0	20.99	-3.40	15.44	<=34.77	Pass				

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 B12_1.4MHz

2.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz															
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict						
		Size	Offset				Result	Limit							
QPSK	699.7	6	0	20	3.46	-7.537	-0.0108	-2.5 to 2.5	Pass						
							-0.0117	-2.5 to 2.5	Pass						
							-0.0085	-2.5 to 2.5	Pass						
							-30	3.8	-7.192	-0.0103	-2.5 to 2.5	Pass			
										-20	3.8	-11.607	-0.0166	-2.5 to 2.5	Pass
													-10	3.8	-7.721
							0	3.8	-10.003	-0.0143	-2.5 to 2.5	Pass			
										10	3.8	-3.496	-0.0050	-2.5 to 2.5	Pass
													30	3.8	-0.050
							40	3.8	-7.964	-0.0114	-2.5 to 2.5	Pass			
							50	3.8	-8.143	-0.0116	-2.5 to 2.5	Pass			
							707.5	6	0	20	3.46	-0.519	-0.0007	-2.5 to 2.5	Pass



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					3.8	-0.983	-0.0014	-2.5 to 2.5	Pass			
					4.35	-5.081	-0.0072	-2.5 to 2.5	Pass			
					-30	3.8	-8.321	-0.0118	-2.5 to 2.5	Pass		
					-20	3.8	-5.607	-0.0079	-2.5 to 2.5	Pass		
					-10	3.8	-9.462	-0.0134	-2.5 to 2.5	Pass		
					0	3.8	-10.575	-0.0149	-2.5 to 2.5	Pass		
					10	3.8	-10.109	-0.0143	-2.5 to 2.5	Pass		
					30	3.8	-3.487	-0.0049	-2.5 to 2.5	Pass		
					40	3.8	-9.439	-0.0133	-2.5 to 2.5	Pass		
				50	3.8	-10.479	-0.0148	-2.5 to 2.5	Pass			
				715.3	6	0	20	3.46	-1.884	-0.0026	-2.5 to 2.5	Pass
								3.8	-2.183	-0.0031	-2.5 to 2.5	Pass
								4.35	-5.476	-0.0077	-2.5 to 2.5	Pass
							-30	3.8	-7.717	-0.0108	-2.5 to 2.5	Pass
							-20	3.8	-5.053	-0.0071	-2.5 to 2.5	Pass
							-10	3.8	-8.459	-0.0118	-2.5 to 2.5	Pass
							0	3.8	-8.813	-0.0123	-2.5 to 2.5	Pass
							10	3.8	-9.147	-0.0128	-2.5 to 2.5	Pass
30	3.8	-10.216	-0.0143				-2.5 to 2.5	Pass				
16QAM	699.7	6	0	20	3.46	-9.428	-0.0135	-2.5 to 2.5	Pass			
					3.8	-8.899	-0.0127	-2.5 to 2.5	Pass			
					4.35	-8.301	-0.0119	-2.5 to 2.5	Pass			
				-30	3.8	-4.534	-0.0065	-2.5 to 2.5	Pass			
				-20	3.8	-6.740	-0.0096	-2.5 to 2.5	Pass			
				-10	3.8	-8.148	-0.0116	-2.5 to 2.5	Pass			
				0	3.8	-4.503	-0.0064	-2.5 to 2.5	Pass			
				10	3.8	-4.777	-0.0068	-2.5 to 2.5	Pass			
				30	3.8	-10.172	-0.0145	-2.5 to 2.5	Pass			
	707.5	6	0	20	3.46	-6.202	-0.0088	-2.5 to 2.5	Pass			
					3.8	-5.103	-0.0072	-2.5 to 2.5	Pass			
					4.35	-7.114	-0.0101	-2.5 to 2.5	Pass			
				-30	3.8	-6.871	-0.0097	-2.5 to 2.5	Pass			
				-20	3.8	-11.906	-0.0168	-2.5 to 2.5	Pass			
				-10	3.8	-8.943	-0.0126	-2.5 to 2.5	Pass			
				0	3.8	-4.556	-0.0064	-2.5 to 2.5	Pass			
				10	3.8	-10.378	-0.0147	-2.5 to 2.5	Pass			
				30	3.8	-10.467	-0.0148	-2.5 to 2.5	Pass			
715.3	6	0	20	3.46	-8.168	-0.0114	-2.5 to 2.5	Pass				
				3.8	-6.260	-0.0088	-2.5 to 2.5	Pass				
				4.35	-11.026	-0.0154	-2.5 to 2.5	Pass				
			-30	3.8	-7.812	-0.0109	-2.5 to 2.5	Pass				
			-20	3.8	-6.491	-0.0091	-2.5 to 2.5	Pass				
			-10	3.8	-9.924	-0.0139	-2.5 to 2.5	Pass				
			0	3.8	-7.172	-0.0100	-2.5 to 2.5	Pass				
			10	3.8	-7.635	-0.0107	-2.5 to 2.5	Pass				
			30	3.8	-7.584	-0.0106	-2.5 to 2.5	Pass				
40	3.8	-7.140	-0.0100	-2.5 to 2.5	Pass							
50	3.8	-12.348	-0.0173	-2.5 to 2.5	Pass							

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64QAM	699.7	6	0	20	3.46	-6.873	-0.0098	-2.5 to 2.5	Pass	
					3.8	-5.552	-0.0079	-2.5 to 2.5	Pass	
					4.35	-4.814	-0.0069	-2.5 to 2.5	Pass	
				-30	3.8	-6.076	-0.0087	-2.5 to 2.5	Pass	
					-20	3.8	-12.169	-0.0174	-2.5 to 2.5	Pass
						-10	3.8	-10.730	-0.0153	-2.5 to 2.5
				0	3.8	-4.314	-0.0062	-2.5 to 2.5	Pass	
					10	3.8	-8.196	-0.0117	-2.5 to 2.5	Pass
				30	3.8	-5.693	-0.0081	-2.5 to 2.5	Pass	
	40	3.8	-5.669		-0.0081	-2.5 to 2.5	Pass			
	50	3.8	-12.259	-0.0175	-2.5 to 2.5	Pass				
	707.5	6	0	20	3.46	-9.062	-0.0128	-2.5 to 2.5	Pass	
					3.8	-5.413	-0.0077	-2.5 to 2.5	Pass	
					4.35	-4.551	-0.0064	-2.5 to 2.5	Pass	
				-30	3.8	-7.732	-0.0109	-2.5 to 2.5	Pass	
					-20	3.8	-6.013	-0.0085	-2.5 to 2.5	Pass
						-10	3.8	-8.186	-0.0116	-2.5 to 2.5
				0	3.8	-4.618	-0.0065	-2.5 to 2.5	Pass	
					10	3.8	-4.499	-0.0064	-2.5 to 2.5	Pass
				30	3.8	-3.350	-0.0047	-2.5 to 2.5	Pass	
	40	3.8	-8.010		-0.0113	-2.5 to 2.5	Pass			
	50	3.8	-4.099	-0.0058	-2.5 to 2.5	Pass				
	715.3	6	0	20	3.46	-7.690	-0.0108	-2.5 to 2.5	Pass	
					3.8	-7.003	-0.0098	-2.5 to 2.5	Pass	
					4.35	-9.131	-0.0128	-2.5 to 2.5	Pass	
				-30	3.8	-6.293	-0.0088	-2.5 to 2.5	Pass	
					-20	3.8	-8.882	-0.0124	-2.5 to 2.5	Pass
-10						3.8	-3.753	-0.0052	-2.5 to 2.5	Pass
0				3.8	-5.937	-0.0083	-2.5 to 2.5	Pass		
				10	3.8	-5.333	-0.0075	-2.5 to 2.5	Pass	
30				3.8	-5.142	-0.0072	-2.5 to 2.5	Pass		
	40	3.8	-2.036	-0.0028	-2.5 to 2.5	Pass				
50	3.8	-8.508	-0.0119	-2.5 to 2.5	Pass					

2.2 B12_3MHz

2.2.1 Test Result

Band: 12 / Bandwidth: 3MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	700.5	15	0	20	3.46	-6.466	-0.0092	-2.5 to 2.5	Pass	
					3.8	-6.732	-0.0096	-2.5 to 2.5	Pass	
					4.35	-6.833	-0.0098	-2.5 to 2.5	Pass	
				-30	3.8	-6.108	-0.0087	-2.5 to 2.5	Pass	
					-20	3.8	-4.980	-0.0071	-2.5 to 2.5	Pass
						-10	3.8	-2.958	-0.0042	-2.5 to 2.5
				0	3.8	-4.462	-0.0064	-2.5 to 2.5	Pass	
					10	3.8	-6.316	-0.0090	-2.5 to 2.5	Pass
				30	3.8	-8.168	-0.0117	-2.5 to 2.5	Pass	
					40	3.8	-9.612	-0.0137	-2.5 to 2.5	Pass
50	3.8	-4.915	-0.0070	-2.5 to 2.5	Pass					



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	707.5	15	0	20	3.46	1.752	0.0025	-2.5 to 2.5	Pass	
					3.8	-0.697	-0.0010	-2.5 to 2.5	Pass	
					4.35	-0.692	-0.0010	-2.5 to 2.5	Pass	
				-30	3.8	-0.723	-0.0010	-2.5 to 2.5	Pass	
					-20	3.8	-1.029	-0.0015	-2.5 to 2.5	Pass
						-10	3.8	-0.997	-0.0014	-2.5 to 2.5
				0	3.8	-1.729	-0.0024	-2.5 to 2.5	Pass	
					10	3.8	-6.601	-0.0093	-2.5 to 2.5	Pass
					30	3.8	-0.263	-0.0004	-2.5 to 2.5	Pass
					40	3.8	-3.623	-0.0051	-2.5 to 2.5	Pass
	50	3.8	-3.103		-0.0044	-2.5 to 2.5	Pass			
	714.5	15	0		20	3.46	-6.232	-0.0087	-2.5 to 2.5	Pass
						3.8	-9.178	-0.0128	-2.5 to 2.5	Pass
				4.35		-6.532	-0.0091	-2.5 to 2.5	Pass	
				-30	3.8	-4.206	-0.0059	-2.5 to 2.5	Pass	
					-20	3.8	-3.840	-0.0054	-2.5 to 2.5	Pass
						-10	3.8	-6.324	-0.0089	-2.5 to 2.5
				0	3.8	-9.331	-0.0131	-2.5 to 2.5	Pass	
					10	3.8	-7.096	-0.0099	-2.5 to 2.5	Pass
					30	3.8	-5.265	-0.0074	-2.5 to 2.5	Pass
40					3.8	-5.942	-0.0083	-2.5 to 2.5	Pass	
50	3.8	-3.173	-0.0044		-2.5 to 2.5	Pass				
16QAM	700.5	15	0		20	3.46	-8.943	-0.0128	-2.5 to 2.5	Pass
						3.8	-9.420	-0.0134	-2.5 to 2.5	Pass
				4.35		-10.104	-0.0144	-2.5 to 2.5	Pass	
				-30	3.8	-7.025	-0.0100	-2.5 to 2.5	Pass	
					-20	3.8	-5.583	-0.0080	-2.5 to 2.5	Pass
						-10	3.8	-8.145	-0.0116	-2.5 to 2.5
				0	3.8	-3.900	-0.0056	-2.5 to 2.5	Pass	
					10	3.8	-4.236	-0.0060	-2.5 to 2.5	Pass
					30	3.8	-0.960	-0.0014	-2.5 to 2.5	Pass
					40	3.8	-5.181	-0.0074	-2.5 to 2.5	Pass
	50	3.8	-9.513		-0.0136	-2.5 to 2.5	Pass			
	707.5	15	0		20	3.46	-6.627	-0.0094	-2.5 to 2.5	Pass
						3.8	-2.544	-0.0036	-2.5 to 2.5	Pass
				4.35		-5.581	-0.0079	-2.5 to 2.5	Pass	
				-30	3.8	-6.835	-0.0097	-2.5 to 2.5	Pass	
					-20	3.8	-4.597	-0.0065	-2.5 to 2.5	Pass
						-10	3.8	-0.442	-0.0006	-2.5 to 2.5
				0	3.8	-10.299	-0.0146	-2.5 to 2.5	Pass	
					10	3.8	-6.089	-0.0086	-2.5 to 2.5	Pass
					30	3.8	-5.016	-0.0071	-2.5 to 2.5	Pass
40					3.8	-2.878	-0.0041	-2.5 to 2.5	Pass	
50	3.8	-1.469	-0.0021		-2.5 to 2.5	Pass				
714.5	15	0	20		3.46	-4.786	-0.0067	-2.5 to 2.5	Pass	
					3.8	-8.068	-0.0113	-2.5 to 2.5	Pass	
				4.35	-10.693	-0.0150	-2.5 to 2.5	Pass		
			-30	3.8	-8.978	-0.0126	-2.5 to 2.5	Pass		
				-20	3.8	-8.218	-0.0115	-2.5 to 2.5	Pass	
					-10	3.8	-10.131	-0.0142	-2.5 to 2.5	Pass
			0	3.8	-6.911	-0.0097	-2.5 to 2.5	Pass		
				10	3.8	-4.929	-0.0069	-2.5 to 2.5	Pass	
				30	3.8	-10.161	-0.0142	-2.5 to 2.5	Pass	
				40	3.8	-7.365	-0.0103	-2.5 to 2.5	Pass	

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64QAM	700.5	15	0	50	3.8	-7.465	-0.0104	-2.5 to 2.5	Pass
				20	3.46	-2.135	-0.0030	-2.5 to 2.5	Pass
					3.8	-4.564	-0.0065	-2.5 to 2.5	Pass
					4.35	-4.130	-0.0059	-2.5 to 2.5	Pass
				-30	3.8	-3.723	-0.0053	-2.5 to 2.5	Pass
				-20	3.8	-4.801	-0.0069	-2.5 to 2.5	Pass
				-10	3.8	-0.645	-0.0009	-2.5 to 2.5	Pass
				0	3.8	-7.239	-0.0103	-2.5 to 2.5	Pass
				10	3.8	-5.683	-0.0081	-2.5 to 2.5	Pass
				30	3.8	-2.480	-0.0035	-2.5 to 2.5	Pass
	40	3.8	-5.169	-0.0074	-2.5 to 2.5	Pass			
	50	3.8	-4.779	-0.0068	-2.5 to 2.5	Pass			
	707.5	15	0	20	3.46	-8.093	-0.0114	-2.5 to 2.5	Pass
					3.8	-7.153	-0.0101	-2.5 to 2.5	Pass
					4.35	-6.921	-0.0098	-2.5 to 2.5	Pass
				-30	3.8	-1.274	-0.0018	-2.5 to 2.5	Pass
				-20	3.8	-0.838	-0.0012	-2.5 to 2.5	Pass
				-10	3.8	-5.215	-0.0074	-2.5 to 2.5	Pass
				0	3.8	-1.540	-0.0022	-2.5 to 2.5	Pass
				10	3.8	-7.716	-0.0109	-2.5 to 2.5	Pass
				30	3.8	-7.069	-0.0100	-2.5 to 2.5	Pass
				40	3.8	-5.687	-0.0080	-2.5 to 2.5	Pass
	50	3.8	-3.939	-0.0056	-2.5 to 2.5	Pass			
	714.5	15	0	20	3.46	-8.004	-0.0112	-2.5 to 2.5	Pass
					3.8	-8.364	-0.0117	-2.5 to 2.5	Pass
					4.35	-8.319	-0.0116	-2.5 to 2.5	Pass
				-30	3.8	-5.195	-0.0073	-2.5 to 2.5	Pass
				-20	3.8	-9.328	-0.0131	-2.5 to 2.5	Pass
				-10	3.8	-7.581	-0.0106	-2.5 to 2.5	Pass
				0	3.8	-7.574	-0.0106	-2.5 to 2.5	Pass
10				3.8	-7.767	-0.0109	-2.5 to 2.5	Pass	
30				3.8	-3.852	-0.0054	-2.5 to 2.5	Pass	
40				3.8	-5.513	-0.0077	-2.5 to 2.5	Pass	
50	3.8	-9.080	-0.0127	-2.5 to 2.5	Pass				

2.3 B12_5MHz

2.3.1 Test Result

Band: 12 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	701.5	25	0	20	3.46	-12.017	-0.0171	-2.5 to 2.5	Pass
					3.8	-6.859	-0.0098	-2.5 to 2.5	Pass
					4.35	-7.071	-0.0101	-2.5 to 2.5	Pass
				-30	3.8	-3.338	-0.0048	-2.5 to 2.5	Pass
				-20	3.8	-4.444	-0.0063	-2.5 to 2.5	Pass
				-10	3.8	-1.904	-0.0027	-2.5 to 2.5	Pass
				0	3.8	-3.706	-0.0053	-2.5 to 2.5	Pass
				10	3.8	-5.252	-0.0075	-2.5 to 2.5	Pass
				30	3.8	-7.603	-0.0108	-2.5 to 2.5	Pass
				40	3.8	-5.615	-0.0080	-2.5 to 2.5	Pass



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	707.5	25	0	50	3.8	-7.063	-0.0101	-2.5 to 2.5	Pass
				20	3.46	-3.161	-0.0045	-2.5 to 2.5	Pass
					3.8	-6.081	-0.0086	-2.5 to 2.5	Pass
					4.35	-4.698	-0.0066	-2.5 to 2.5	Pass
				-30	3.8	-4.767	-0.0067	-2.5 to 2.5	Pass
				-20	3.8	0.392	0.0006	-2.5 to 2.5	Pass
				-10	3.8	-1.470	-0.0021	-2.5 to 2.5	Pass
				0	3.8	-3.327	-0.0047	-2.5 to 2.5	Pass
				10	3.8	-6.934	-0.0098	-2.5 to 2.5	Pass
	30	3.8	-3.812	-0.0054	-2.5 to 2.5	Pass			
	40	3.8	-4.331	-0.0061	-2.5 to 2.5	Pass			
	50	3.8	-5.128	-0.0072	-2.5 to 2.5	Pass			
	713.5	25	0	20	3.46	-3.941	-0.0055	-2.5 to 2.5	Pass
					3.8	-5.744	-0.0081	-2.5 to 2.5	Pass
					4.35	-2.250	-0.0032	-2.5 to 2.5	Pass
				-30	3.8	-5.388	-0.0076	-2.5 to 2.5	Pass
				-20	3.8	-2.749	-0.0039	-2.5 to 2.5	Pass
				-10	3.8	-6.038	-0.0085	-2.5 to 2.5	Pass
0				3.8	-3.301	-0.0046	-2.5 to 2.5	Pass	
10				3.8	-2.699	-0.0038	-2.5 to 2.5	Pass	
30				3.8	-2.339	-0.0033	-2.5 to 2.5	Pass	
40	3.8	-8.927	-0.0125	-2.5 to 2.5	Pass				
50	3.8	-3.909	-0.0055	-2.5 to 2.5	Pass				
16QAM	701.5	25	0	20	3.46	-7.786	-0.0111	-2.5 to 2.5	Pass
					3.8	-6.165	-0.0088	-2.5 to 2.5	Pass
					4.35	-10.860	-0.0155	-2.5 to 2.5	Pass
				-30	3.8	-10.844	-0.0155	-2.5 to 2.5	Pass
				-20	3.8	-6.023	-0.0086	-2.5 to 2.5	Pass
				-10	3.8	-10.238	-0.0146	-2.5 to 2.5	Pass
				0	3.8	-10.105	-0.0144	-2.5 to 2.5	Pass
				10	3.8	-7.907	-0.0113	-2.5 to 2.5	Pass
				30	3.8	-6.281	-0.0090	-2.5 to 2.5	Pass
	40	3.8	-9.153	-0.0130	-2.5 to 2.5	Pass			
	50	3.8	-6.985	-0.0100	-2.5 to 2.5	Pass			
	707.5	25	0	20	3.46	-6.368	-0.0090	-2.5 to 2.5	Pass
					3.8	-7.349	-0.0104	-2.5 to 2.5	Pass
					4.35	-5.506	-0.0078	-2.5 to 2.5	Pass
				-30	3.8	-6.412	-0.0091	-2.5 to 2.5	Pass
				-20	3.8	-10.428	-0.0147	-2.5 to 2.5	Pass
				-10	3.8	-7.024	-0.0099	-2.5 to 2.5	Pass
				0	3.8	-10.199	-0.0144	-2.5 to 2.5	Pass
10				3.8	-9.454	-0.0134	-2.5 to 2.5	Pass	
30				3.8	-9.949	-0.0141	-2.5 to 2.5	Pass	
40	3.8	-3.501	-0.0049	-2.5 to 2.5	Pass				
50	3.8	-4.104	-0.0058	-2.5 to 2.5	Pass				
713.5	25	0	20	3.46	-7.575	-0.0106	-2.5 to 2.5	Pass	
				3.8	-4.872	-0.0068	-2.5 to 2.5	Pass	
				4.35	-4.517	-0.0063	-2.5 to 2.5	Pass	
			-30	3.8	-1.189	-0.0017	-2.5 to 2.5	Pass	
			-20	3.8	-1.158	-0.0016	-2.5 to 2.5	Pass	
			-10	3.8	-1.092	-0.0015	-2.5 to 2.5	Pass	
			0	3.8	-4.610	-0.0065	-2.5 to 2.5	Pass	
			10	3.8	-4.331	-0.0061	-2.5 to 2.5	Pass	
			30	3.8	-2.165	-0.0030	-2.5 to 2.5	Pass	

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				40	3.8	-4.812	-0.0067	-2.5 to 2.5	Pass				
				50	3.8	-6.523	-0.0091	-2.5 to 2.5	Pass				
64QAM	701.5	25	0	20	3.46	-4.295	-0.0061	-2.5 to 2.5	Pass				
					3.8	-3.452	-0.0049	-2.5 to 2.5	Pass				
					4.35	-4.591	-0.0065	-2.5 to 2.5	Pass				
								-30	3.8	-6.459	-0.0092	-2.5 to 2.5	Pass
								-20	3.8	-7.360	-0.0105	-2.5 to 2.5	Pass
								-10	3.8	-4.253	-0.0061	-2.5 to 2.5	Pass
								0	3.8	-8.227	-0.0117	-2.5 to 2.5	Pass
								10	3.8	-6.839	-0.0097	-2.5 to 2.5	Pass
								30	3.8	-5.498	-0.0078	-2.5 to 2.5	Pass
					40	3.8	-7.601	-0.0108	-2.5 to 2.5	Pass			
					50	3.8	-4.882	-0.0070	-2.5 to 2.5	Pass			
		707.5	25	0	20	3.46	-2.992	-0.0042	-2.5 to 2.5	Pass			
	3.8					-5.936	-0.0084	-2.5 to 2.5	Pass				
	4.35					-9.409	-0.0133	-2.5 to 2.5	Pass				
								-30	3.8	-2.838	-0.0040	-2.5 to 2.5	Pass
								-20	3.8	-6.694	-0.0095	-2.5 to 2.5	Pass
								-10	3.8	-6.661	-0.0094	-2.5 to 2.5	Pass
								0	3.8	-3.001	-0.0042	-2.5 to 2.5	Pass
								10	3.8	-4.825	-0.0068	-2.5 to 2.5	Pass
								30	3.8	-1.377	-0.0019	-2.5 to 2.5	Pass
					40	3.8	-3.689	-0.0052	-2.5 to 2.5	Pass			
					50	3.8	-0.086	-0.0001	-2.5 to 2.5	Pass			
		713.5	25	0	20	3.46	-5.730	-0.0080	-2.5 to 2.5	Pass			
	3.8					-4.581	-0.0064	-2.5 to 2.5	Pass				
	4.35					-2.741	-0.0038	-2.5 to 2.5	Pass				
								-30	3.8	-3.266	-0.0046	-2.5 to 2.5	Pass
								-20	3.8	-2.415	-0.0034	-2.5 to 2.5	Pass
							-10	3.8	-8.008	-0.0112	-2.5 to 2.5	Pass	
							0	3.8	-7.248	-0.0102	-2.5 to 2.5	Pass	
							10	3.8	-3.459	-0.0048	-2.5 to 2.5	Pass	
							30	3.8	-9.101	-0.0128	-2.5 to 2.5	Pass	
				40	3.8	-7.130	-0.0100	-2.5 to 2.5	Pass				
				50	3.8	-7.701	-0.0108	-2.5 to 2.5	Pass				

2.4 B12_10MHz

2.4.1 Test Result

Band: 12 / Bandwidth: 10MHz													
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict				
		Size	Offset				Result	Limit					
QPSK	704	50	0	20	3.46	-2.599	-0.0037	-2.5 to 2.5	Pass				
					3.8	-5.080	-0.0072	-2.5 to 2.5	Pass				
					4.35	-4.679	-0.0066	-2.5 to 2.5	Pass				
								-30	3.8	-3.922	-0.0056	-2.5 to 2.5	Pass
								-20	3.8	-6.667	-0.0095	-2.5 to 2.5	Pass
								-10	3.8	-7.461	-0.0106	-2.5 to 2.5	Pass
								0	3.8	-4.948	-0.0070	-2.5 to 2.5	Pass
								10	3.8	-7.948	-0.0113	-2.5 to 2.5	Pass
								30	3.8	-8.102	-0.0115	-2.5 to 2.5	Pass

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	707.5	50	0	40	3.8	-4.122	-0.0059	-2.5 to 2.5	Pass
				50	3.8	-4.158	-0.0059	-2.5 to 2.5	Pass
				20	3.46	-4.934	-0.0070	-2.5 to 2.5	Pass
					3.8	-8.646	-0.0122	-2.5 to 2.5	Pass
					4.35	-8.027	-0.0113	-2.5 to 2.5	Pass
				-30	3.8	-8.769	-0.0124	-2.5 to 2.5	Pass
				-20	3.8	-9.263	-0.0131	-2.5 to 2.5	Pass
				-10	3.8	-9.788	-0.0138	-2.5 to 2.5	Pass
				0	3.8	-7.179	-0.0101	-2.5 to 2.5	Pass
	10	3.8	-5.628	-0.0080	-2.5 to 2.5	Pass			
	30	3.8	-2.775	-0.0039	-2.5 to 2.5	Pass			
	40	3.8	-5.271	-0.0075	-2.5 to 2.5	Pass			
	50	3.8	-4.316	-0.0061	-2.5 to 2.5	Pass			
	711	50	0	20	3.46	-3.488	-0.0049	-2.5 to 2.5	Pass
					3.8	-4.557	-0.0064	-2.5 to 2.5	Pass
					4.35	-1.373	-0.0019	-2.5 to 2.5	Pass
				-30	3.8	-2.742	-0.0039	-2.5 to 2.5	Pass
				-20	3.8	-4.751	-0.0067	-2.5 to 2.5	Pass
				-10	3.8	-2.057	-0.0029	-2.5 to 2.5	Pass
0				3.8	-6.021	-0.0085	-2.5 to 2.5	Pass	
10				3.8	-1.888	-0.0027	-2.5 to 2.5	Pass	
30				3.8	-6.851	-0.0096	-2.5 to 2.5	Pass	
40				3.8	-4.908	-0.0069	-2.5 to 2.5	Pass	
50	3.8	-5.048	-0.0071	-2.5 to 2.5	Pass				
16QAM	704	50	0	20	3.46	-4.853	-0.0069	-2.5 to 2.5	Pass
					3.8	-1.119	-0.0016	-2.5 to 2.5	Pass
					4.35	-0.642	-0.0009	-2.5 to 2.5	Pass
				-30	3.8	-1.275	-0.0018	-2.5 to 2.5	Pass
				-20	3.8	-2.575	-0.0037	-2.5 to 2.5	Pass
				-10	3.8	-7.521	-0.0107	-2.5 to 2.5	Pass
				0	3.8	-3.140	-0.0045	-2.5 to 2.5	Pass
				10	3.8	-5.096	-0.0072	-2.5 to 2.5	Pass
				30	3.8	-6.453	-0.0092	-2.5 to 2.5	Pass
	40	3.8	-3.651	-0.0052	-2.5 to 2.5	Pass			
	50	3.8	-3.508	-0.0050	-2.5 to 2.5	Pass			
	707.5	50	0	20	3.46	-1.685	-0.0024	-2.5 to 2.5	Pass
					3.8	-7.666	-0.0108	-2.5 to 2.5	Pass
					4.35	-5.827	-0.0082	-2.5 to 2.5	Pass
				-30	3.8	-2.260	-0.0032	-2.5 to 2.5	Pass
				-20	3.8	-3.279	-0.0046	-2.5 to 2.5	Pass
				-10	3.8	-4.098	-0.0058	-2.5 to 2.5	Pass
				0	3.8	-3.651	-0.0052	-2.5 to 2.5	Pass
				10	3.8	0.864	0.0012	-2.5 to 2.5	Pass
				30	3.8	-5.068	-0.0072	-2.5 to 2.5	Pass
	40	3.8	-3.366	-0.0048	-2.5 to 2.5	Pass			
	50	3.8	-4.134	-0.0058	-2.5 to 2.5	Pass			
	711	50	0	20	3.46	-11.158	-0.0157	-2.5 to 2.5	Pass
					3.8	-2.109	-0.0030	-2.5 to 2.5	Pass
					4.35	-6.580	-0.0093	-2.5 to 2.5	Pass
				-30	3.8	-7.124	-0.0100	-2.5 to 2.5	Pass
				-20	3.8	-7.600	-0.0107	-2.5 to 2.5	Pass
-10				3.8	-9.011	-0.0127	-2.5 to 2.5	Pass	
0				3.8	-7.935	-0.0112	-2.5 to 2.5	Pass	
10				3.8	-7.685	-0.0108	-2.5 to 2.5	Pass	

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				30	3.8	-9.207	-0.0129	-2.5 to 2.5	Pass
				40	3.8	-7.873	-0.0111	-2.5 to 2.5	Pass
				50	3.8	-7.485	-0.0105	-2.5 to 2.5	Pass
64QAM	704	50	0	20	3.46	-2.500	-0.0036	-2.5 to 2.5	Pass
					3.8	-6.178	-0.0088	-2.5 to 2.5	Pass
					4.35	-2.926	-0.0042	-2.5 to 2.5	Pass
				-30	3.8	-3.078	-0.0044	-2.5 to 2.5	Pass
				-20	3.8	-8.556	-0.0122	-2.5 to 2.5	Pass
				-10	3.8	-4.951	-0.0070	-2.5 to 2.5	Pass
				0	3.8	-4.525	-0.0064	-2.5 to 2.5	Pass
				10	3.8	-1.714	-0.0024	-2.5 to 2.5	Pass
				30	3.8	-6.065	-0.0086	-2.5 to 2.5	Pass
				40	3.8	-3.795	-0.0054	-2.5 to 2.5	Pass
	50	3.8	-7.304	-0.0104	-2.5 to 2.5	Pass			
	707.5	50	0	20	3.46	-5.250	-0.0074	-2.5 to 2.5	Pass
					3.8	-4.882	-0.0069	-2.5 to 2.5	Pass
					4.35	-1.682	-0.0024	-2.5 to 2.5	Pass
				-30	3.8	-2.501	-0.0035	-2.5 to 2.5	Pass
				-20	3.8	-4.897	-0.0069	-2.5 to 2.5	Pass
				-10	3.8	-3.936	-0.0056	-2.5 to 2.5	Pass
				0	3.8	-3.739	-0.0053	-2.5 to 2.5	Pass
				10	3.8	-2.785	-0.0039	-2.5 to 2.5	Pass
				30	3.8	-1.874	-0.0026	-2.5 to 2.5	Pass
40				3.8	-2.248	-0.0032	-2.5 to 2.5	Pass	
711	50	0	20	3.46	-8.129	-0.0114	-2.5 to 2.5	Pass	
				3.8	-8.270	-0.0116	-2.5 to 2.5	Pass	
				4.35	-6.515	-0.0092	-2.5 to 2.5	Pass	
			-30	3.8	-8.019	-0.0113	-2.5 to 2.5	Pass	
			-20	3.8	-2.153	-0.0030	-2.5 to 2.5	Pass	
			-10	3.8	-6.366	-0.0090	-2.5 to 2.5	Pass	
			0	3.8	-7.459	-0.0105	-2.5 to 2.5	Pass	
			10	3.8	-8.192	-0.0115	-2.5 to 2.5	Pass	
			30	3.8	-4.073	-0.0057	-2.5 to 2.5	Pass	
			40	3.8	-3.094	-0.0044	-2.5 to 2.5	Pass	
50	3.8	-6.611	-0.0093	-2.5 to 2.5	Pass				

3. Modulation Characteristics

3.1 B12_1.4MHz

3.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	6	0	Refer To Test Graph		Pass
16QAM	707.5	6	0	Refer To Test Graph		Pass
64QAM	707.5	6	0	Refer To Test Graph		Pass



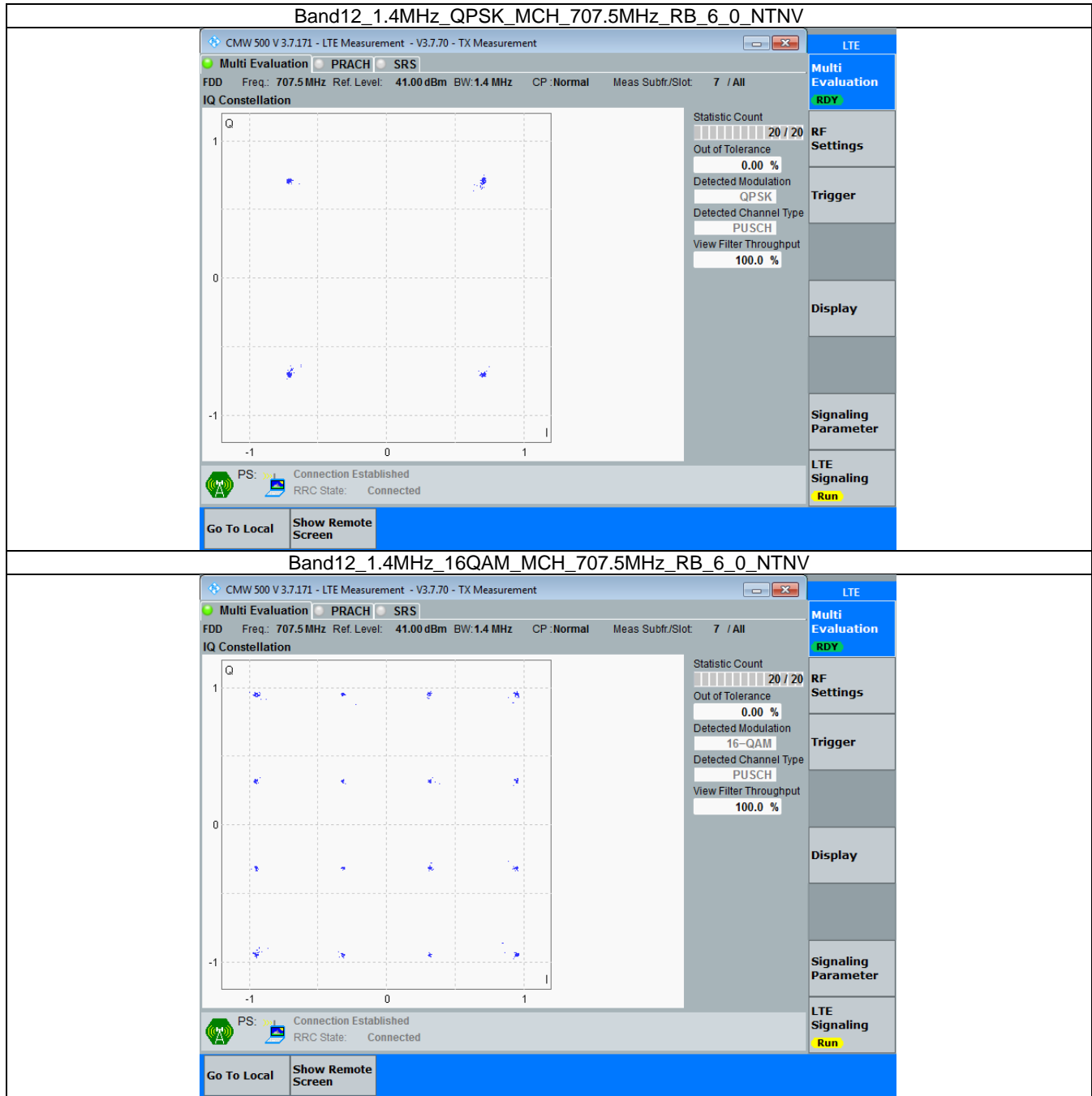
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3.1.2 Test Graph



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Band12_1.4MHz_64QAM_MCH_707.5MHz_RB_6_0_NTNV

CMW 500 V 3.7.171 - LTE Measurement - V3.7.70 - TX Measurement
LTE

Multi Evaluation PRACH SRS
Multi Evaluation RDY

FDD Freq: 707.5 MHz Ref. Level: 41.00 dBm BW: 1.4 MHz CP: Normal Meas Subfr/Slot 7 / All

IQ Constellation

Statistic Count
20 / 20

Out of Tolerance
0.00 %

Detected Modulation
64-QAM

Detected Channel Type
PUSCH

View Filter Throughput
100.0 %

RF Settings

Trigger

Display

Signaling Parameter

LTE Signaling
Run

PS: Connection Established RRC State: Connected

Go To Local
Show Remote Screen



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3.2 B12_3MHz

3.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	15	0	Refer To Test Graph		Pass
16QAM	707.5	15	0	Refer To Test Graph		Pass
64QAM	707.5	15	0	Refer To Test Graph		Pass

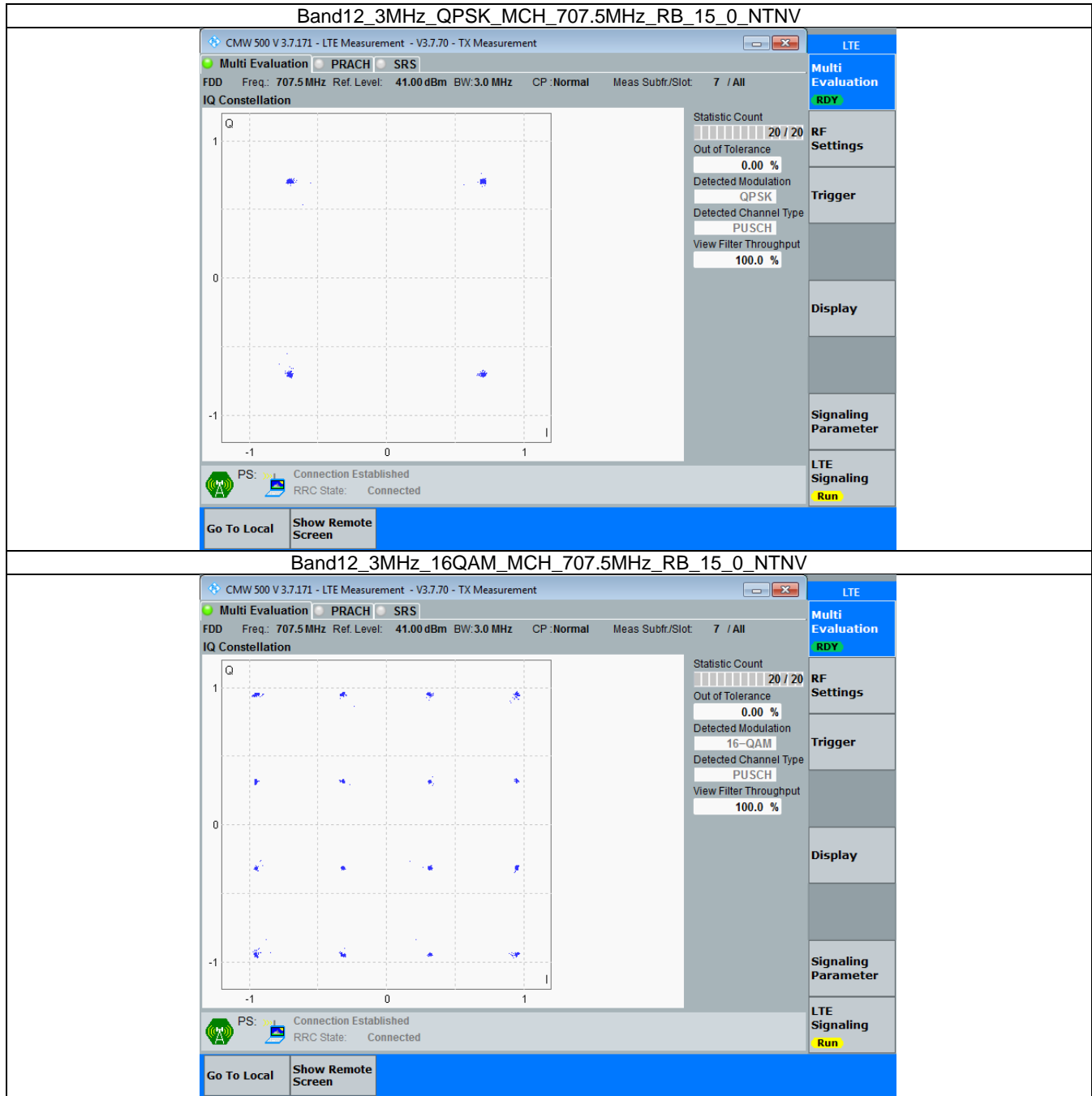
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3.2.2 Test Graph

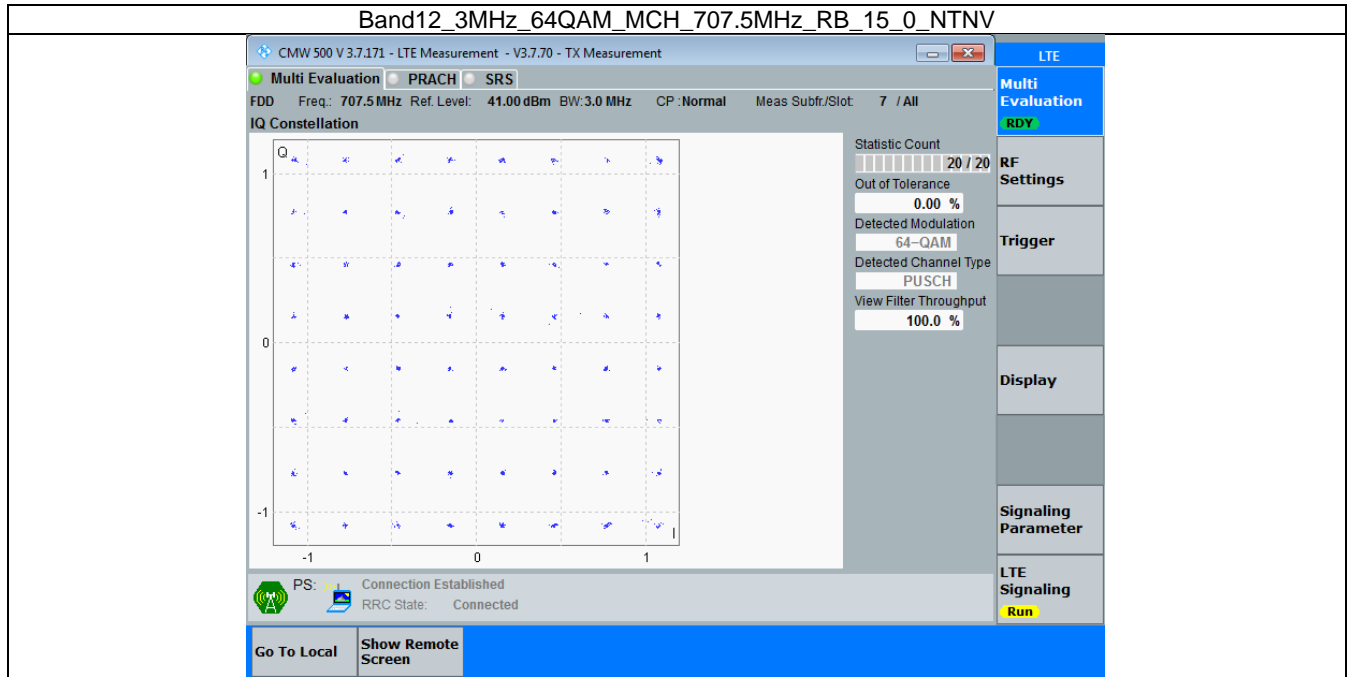


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3.3 B12_5MHz

3.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass
64QAM	707.5	25	0	Refer To Test Graph		Pass

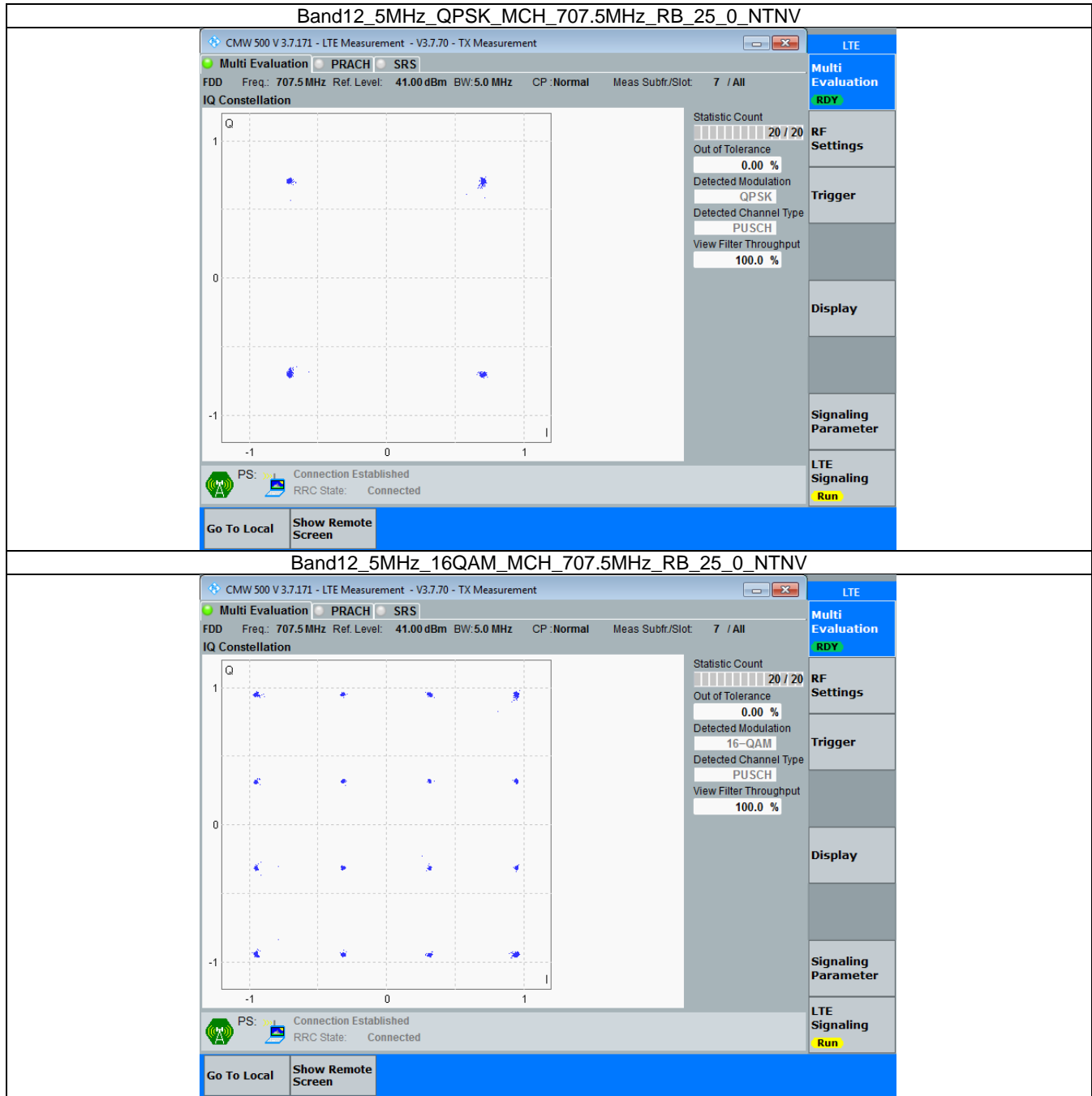
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3.3.2 Test Graph

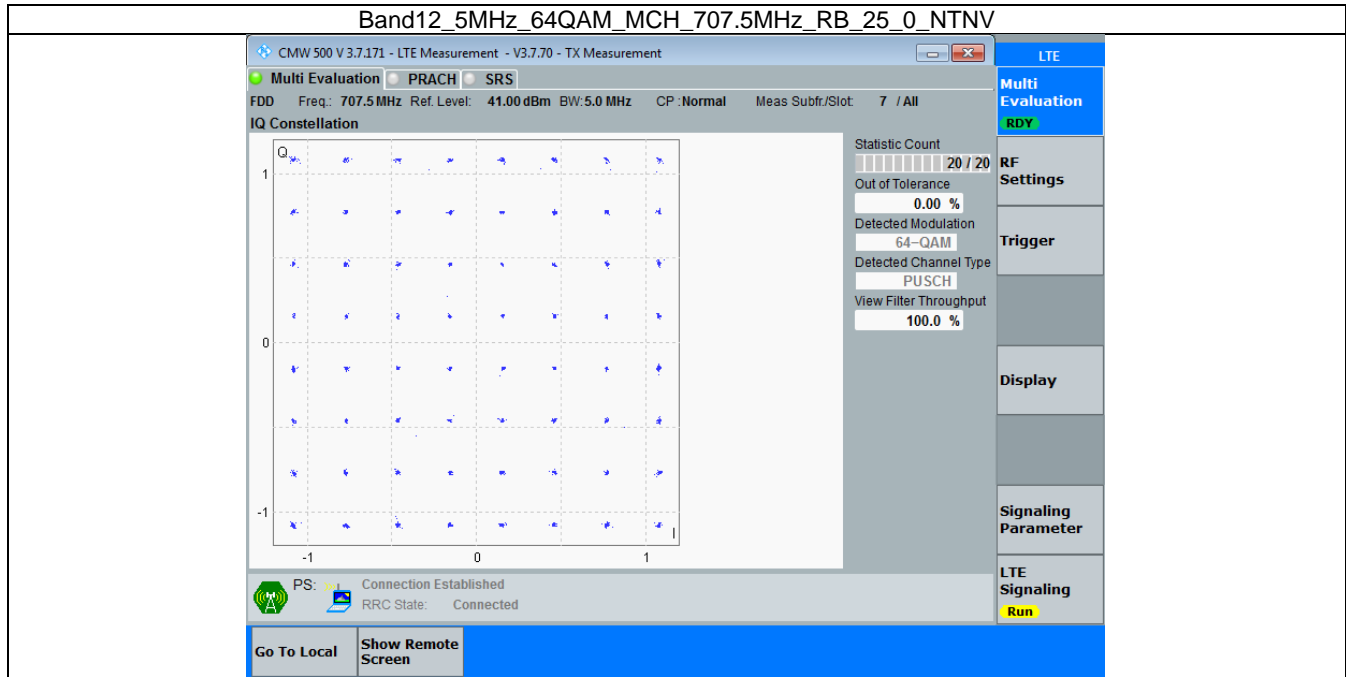


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3.4 B12_10MHz

3.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass
64QAM	707.5	50	0	Refer To Test Graph		Pass

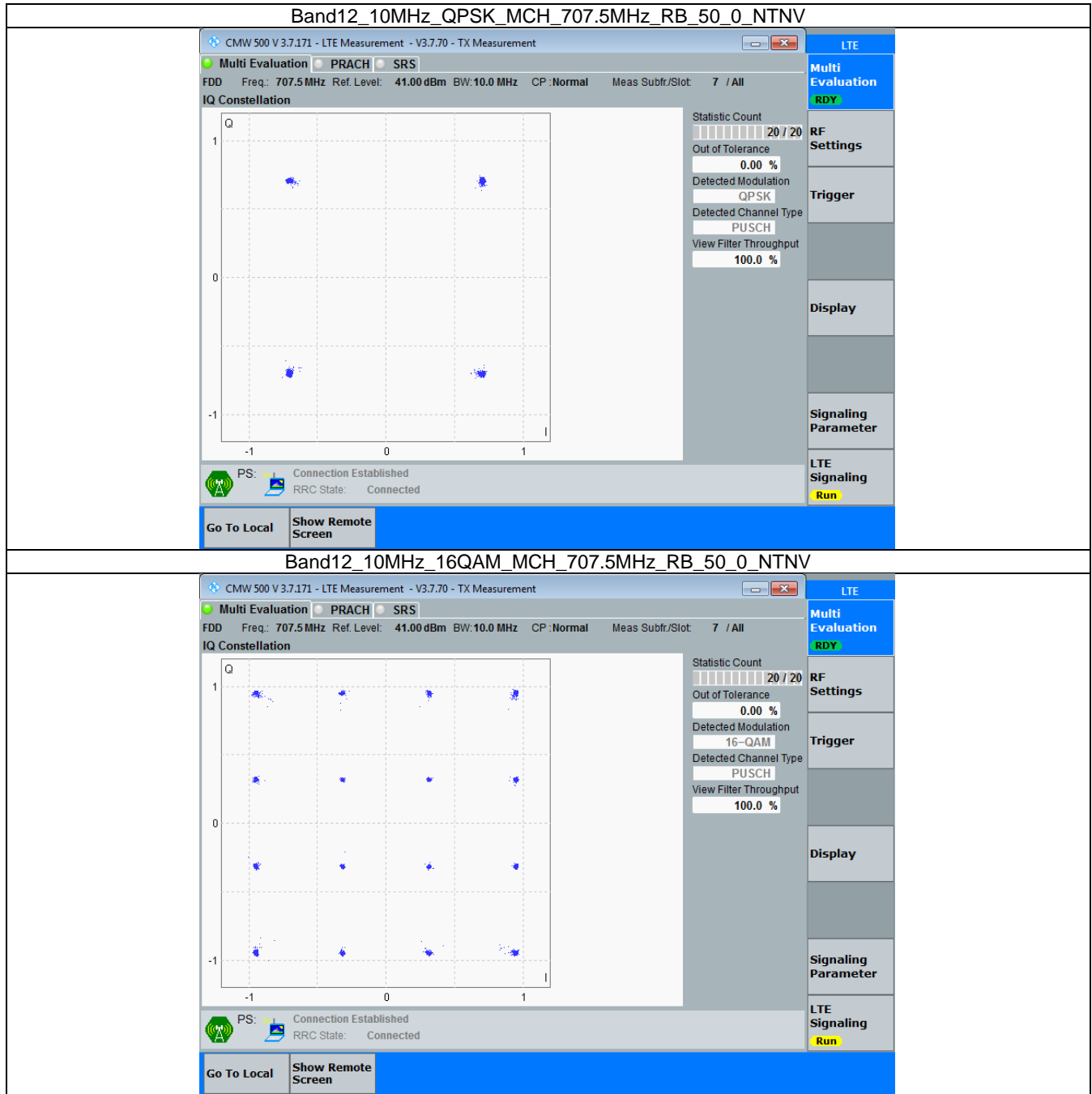
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3.4.2 Test Graph

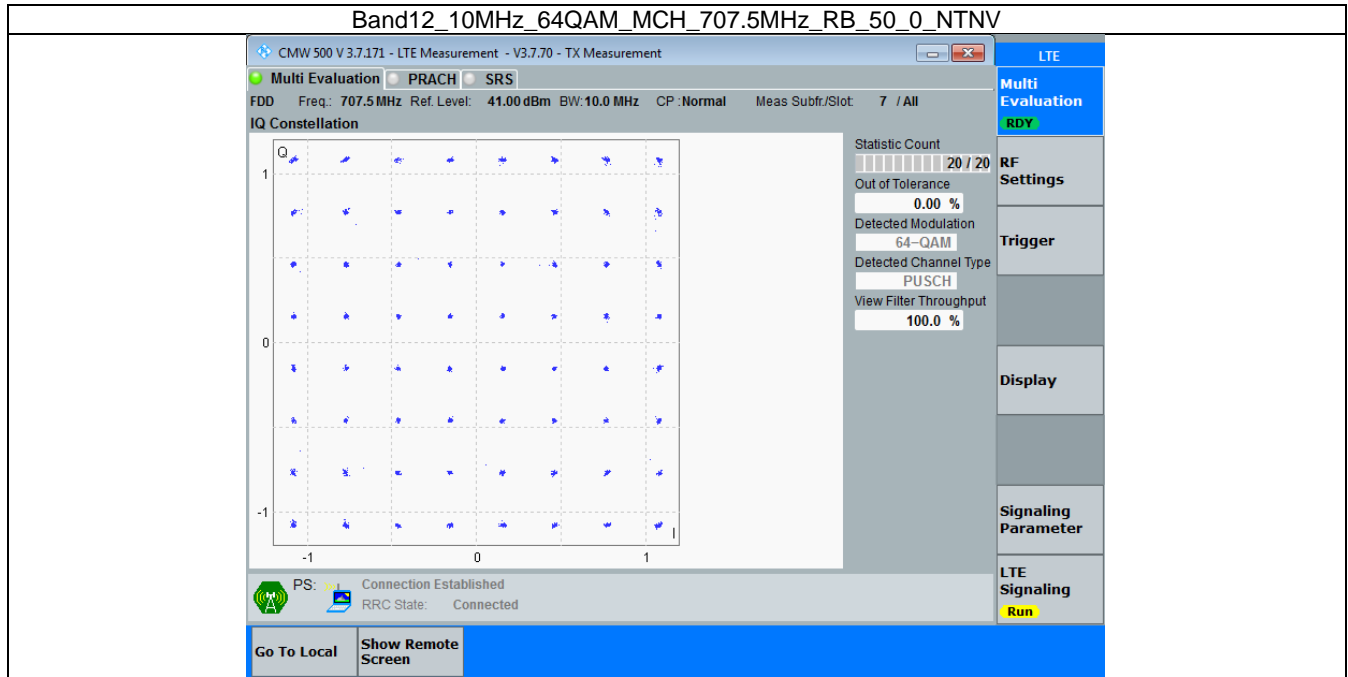


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4. 99% & 26dB Bandwidth

4.1 Band12_OBW

4.1.1 Test Result

Band: 12 / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	699.7	6	0	1.112	Pass
		707.5	6	0	1.101	Pass
		715.3	6	0	1.104	Pass
	16QAM	699.7	6	0	1.104	Pass
		707.5	6	0	1.106	Pass
		715.3	6	0	1.110	Pass
	64QAM	699.7	6	0	1.113	Pass
		707.5	6	0	1.100	Pass
		715.3	6	0	1.106	Pass
3	QPSK	700.5	15	0	2.712	Pass
		707.5	15	0	2.707	Pass
		714.5	15	0	2.713	Pass
	16QAM	700.5	15	0	2.702	Pass
		707.5	15	0	2.714	Pass
		714.5	15	0	2.708	Pass
	64QAM	700.5	15	0	2.720	Pass
		707.5	15	0	2.699	Pass
		714.5	15	0	2.711	Pass
5	QPSK	701.5	25	0	4.584	Pass
		707.5	25	0	4.556	Pass
		713.5	25	0	4.556	Pass
	16QAM	701.5	25	0	4.552	Pass
		707.5	25	0	4.575	Pass
		713.5	25	0	4.589	Pass
	64QAM	701.5	25	0	4.556	Pass
		707.5	25	0	4.567	Pass
		713.5	25	0	4.559	Pass
10	QPSK	704	50	0	9.087	Pass
		707.5	50	0	9.052	Pass
		711	50	0	9.099	Pass
	16QAM	704	50	0	9.082	Pass
		707.5	50	0	9.071	Pass
		711	50	0	9.089	Pass
	64QAM	704	50	0	9.043	Pass
		707.5	50	0	9.088	Pass
		711	50	0	9.117	Pass



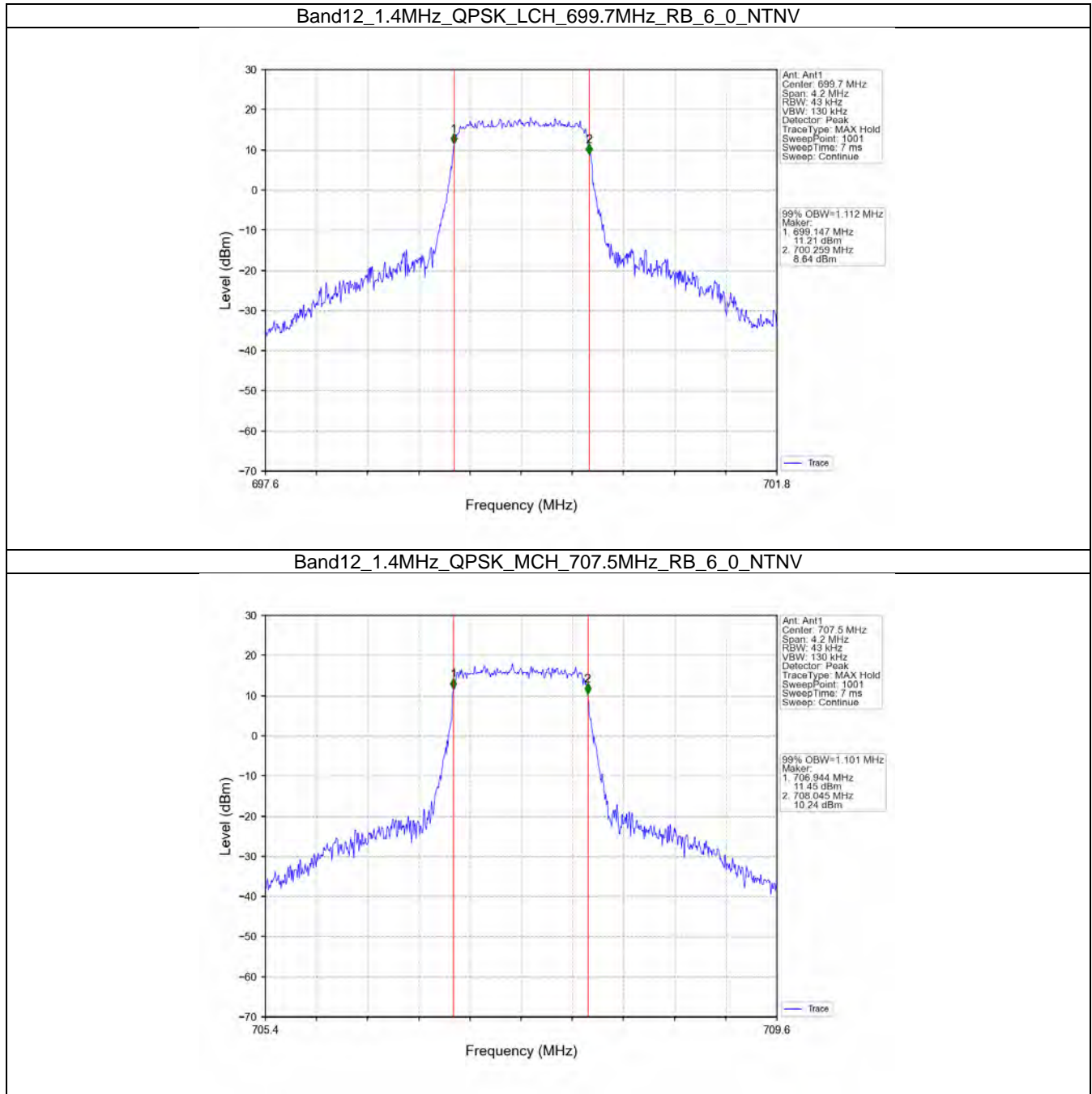
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4.1.2 Test Graph



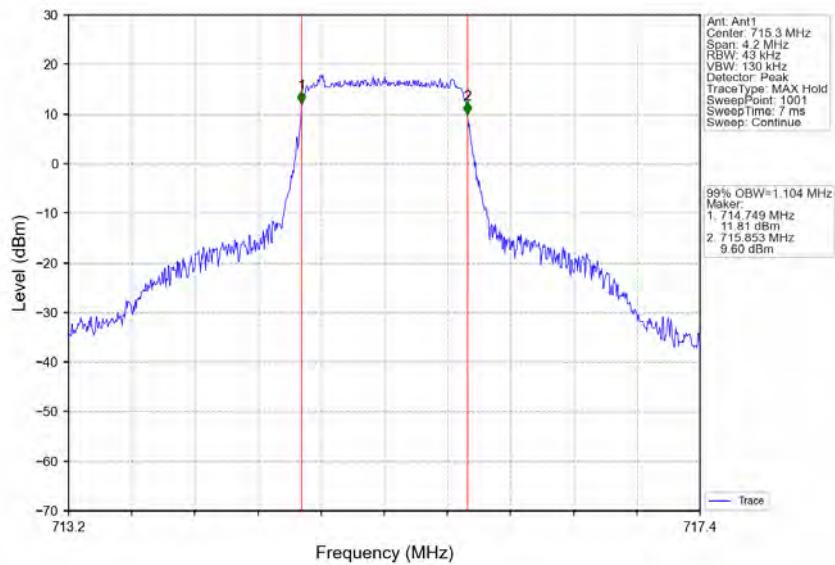
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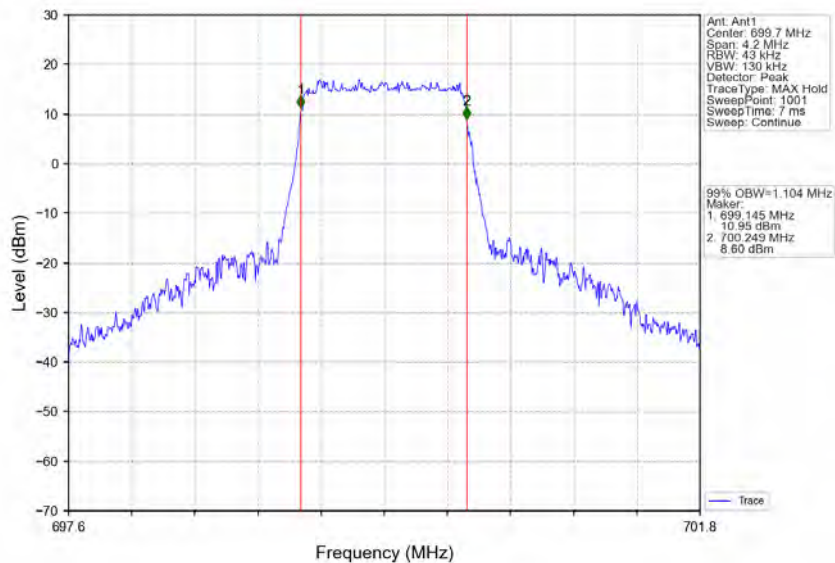
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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



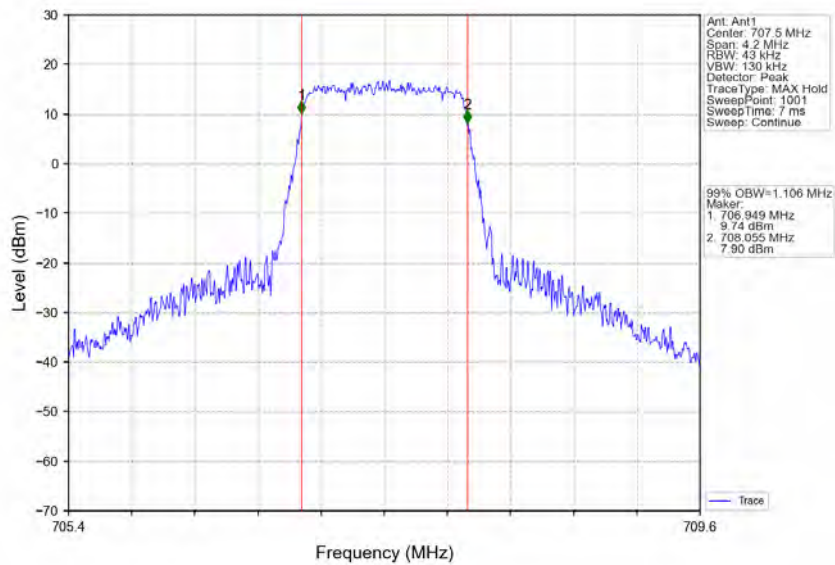
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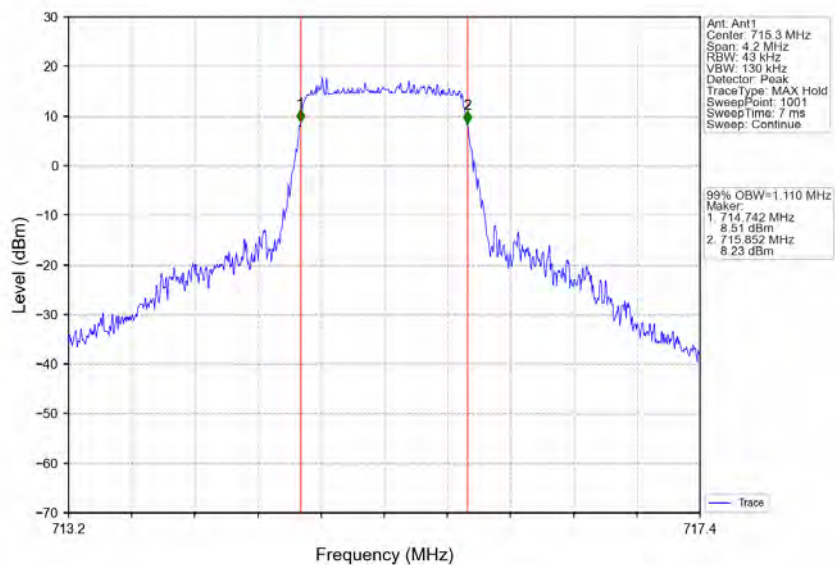
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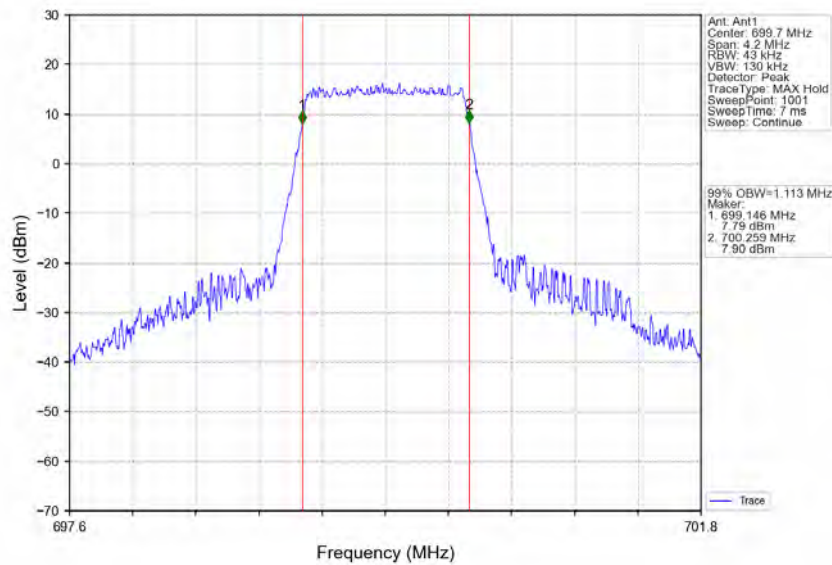


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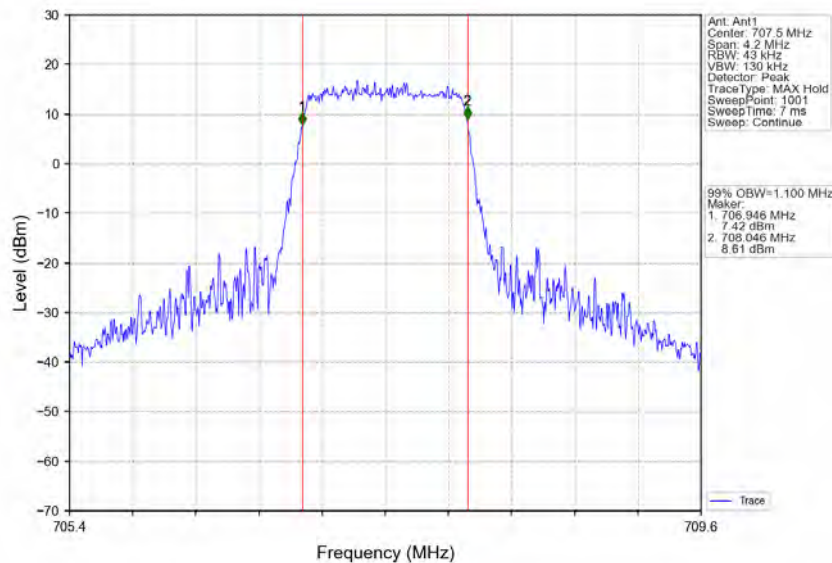
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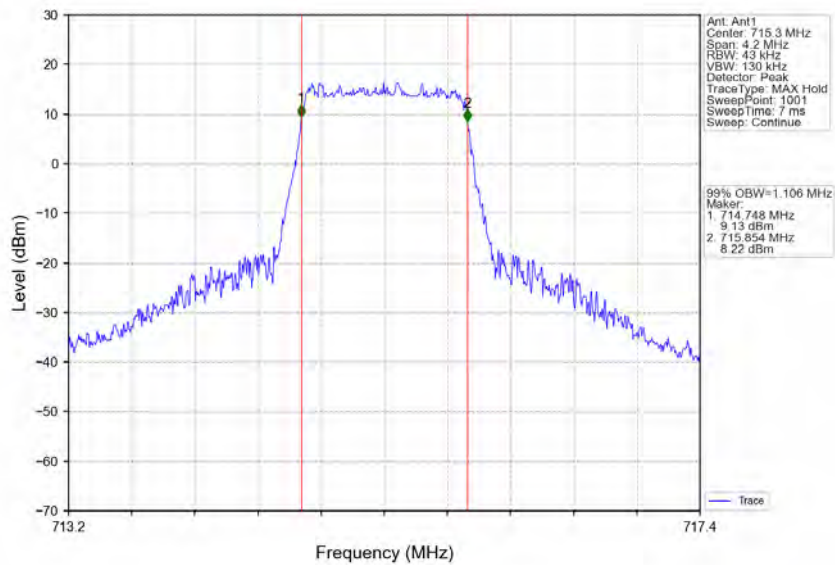
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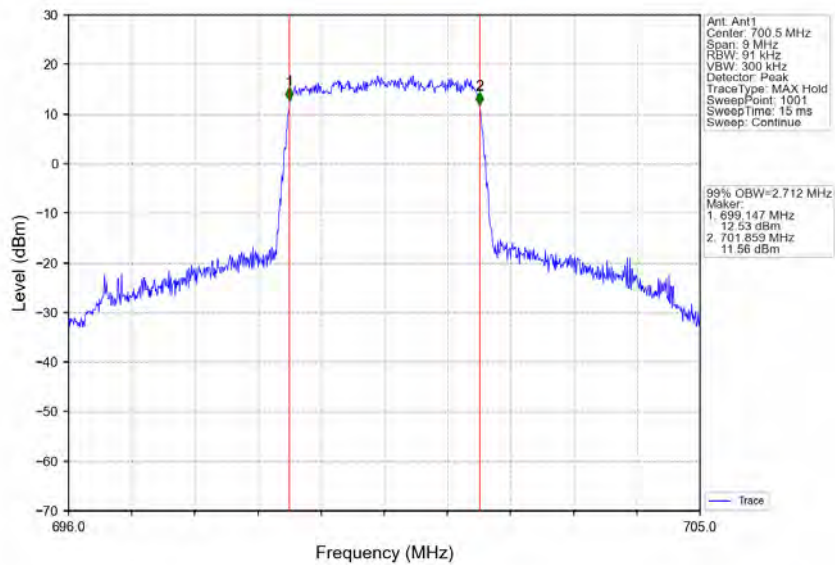
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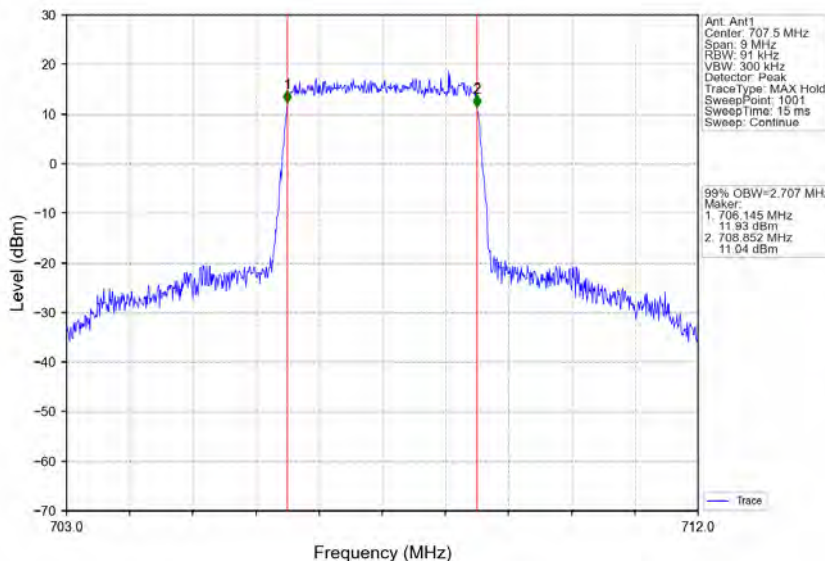
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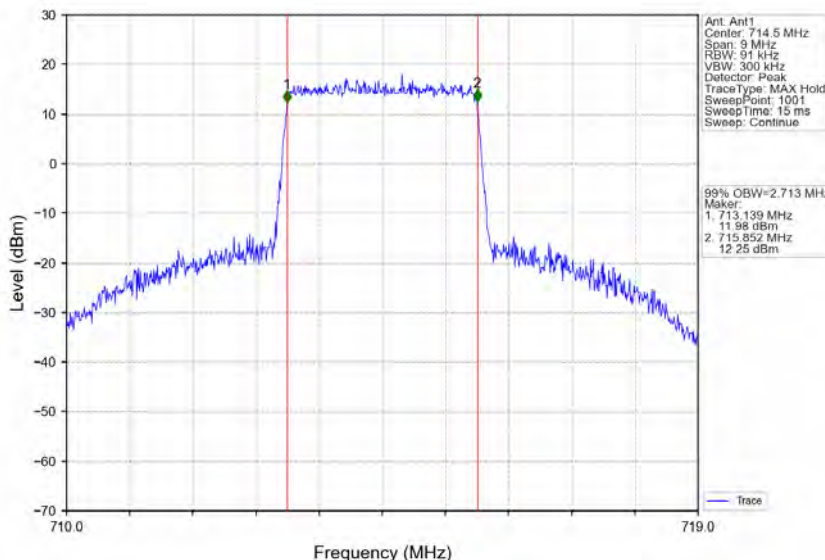
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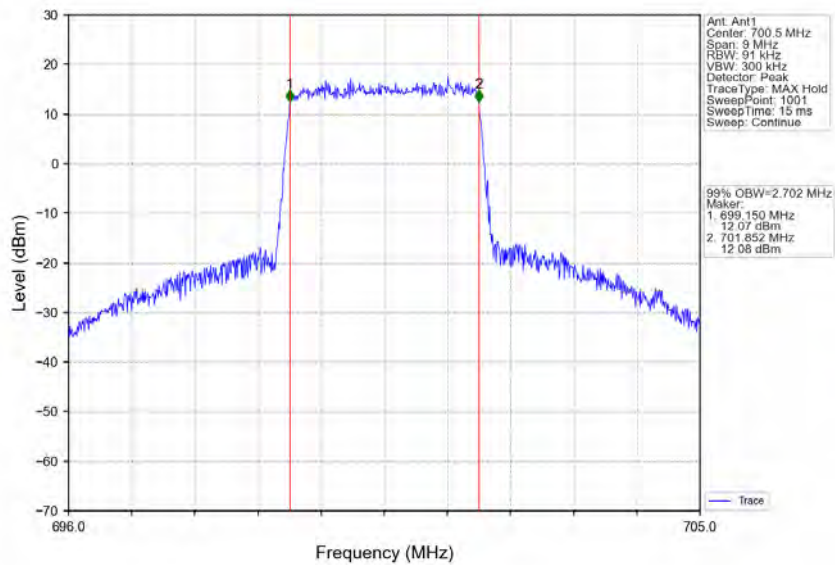
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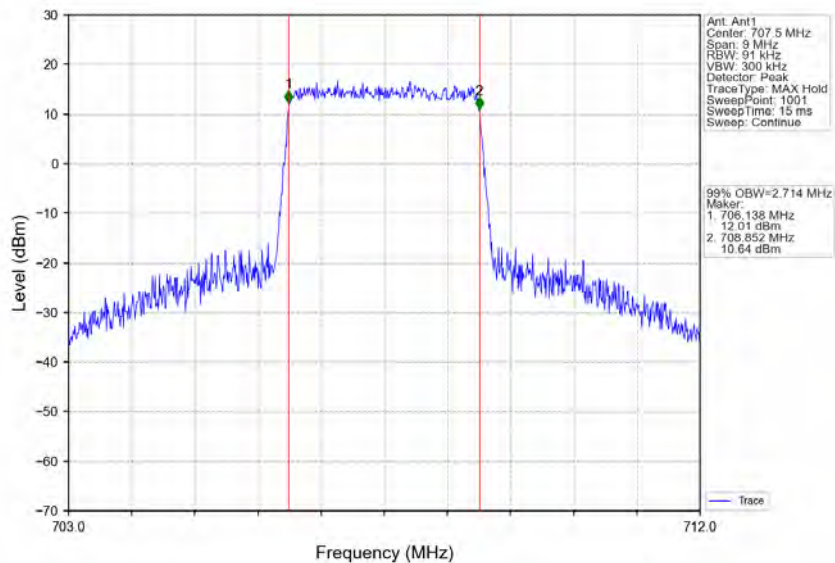
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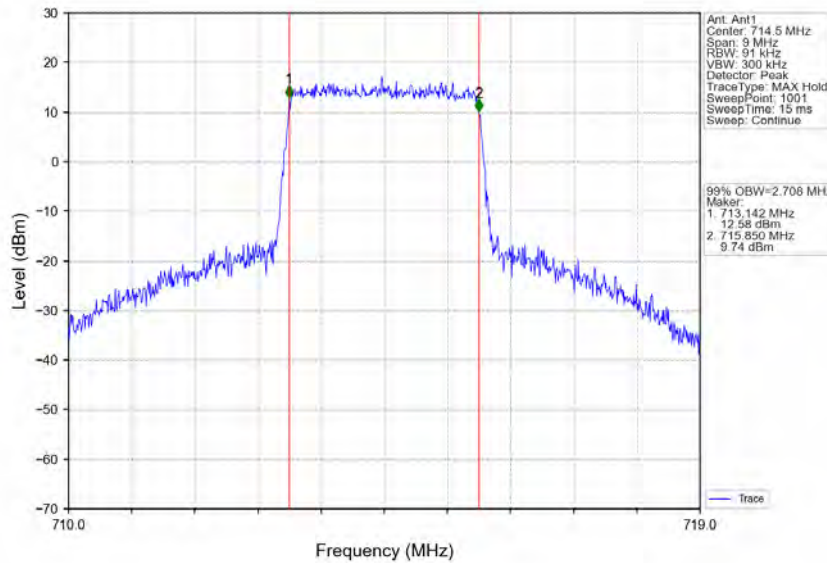
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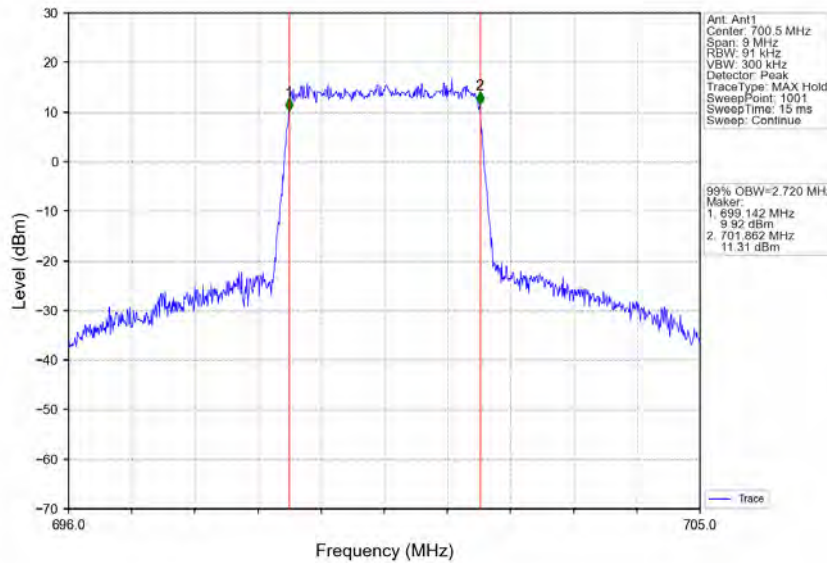
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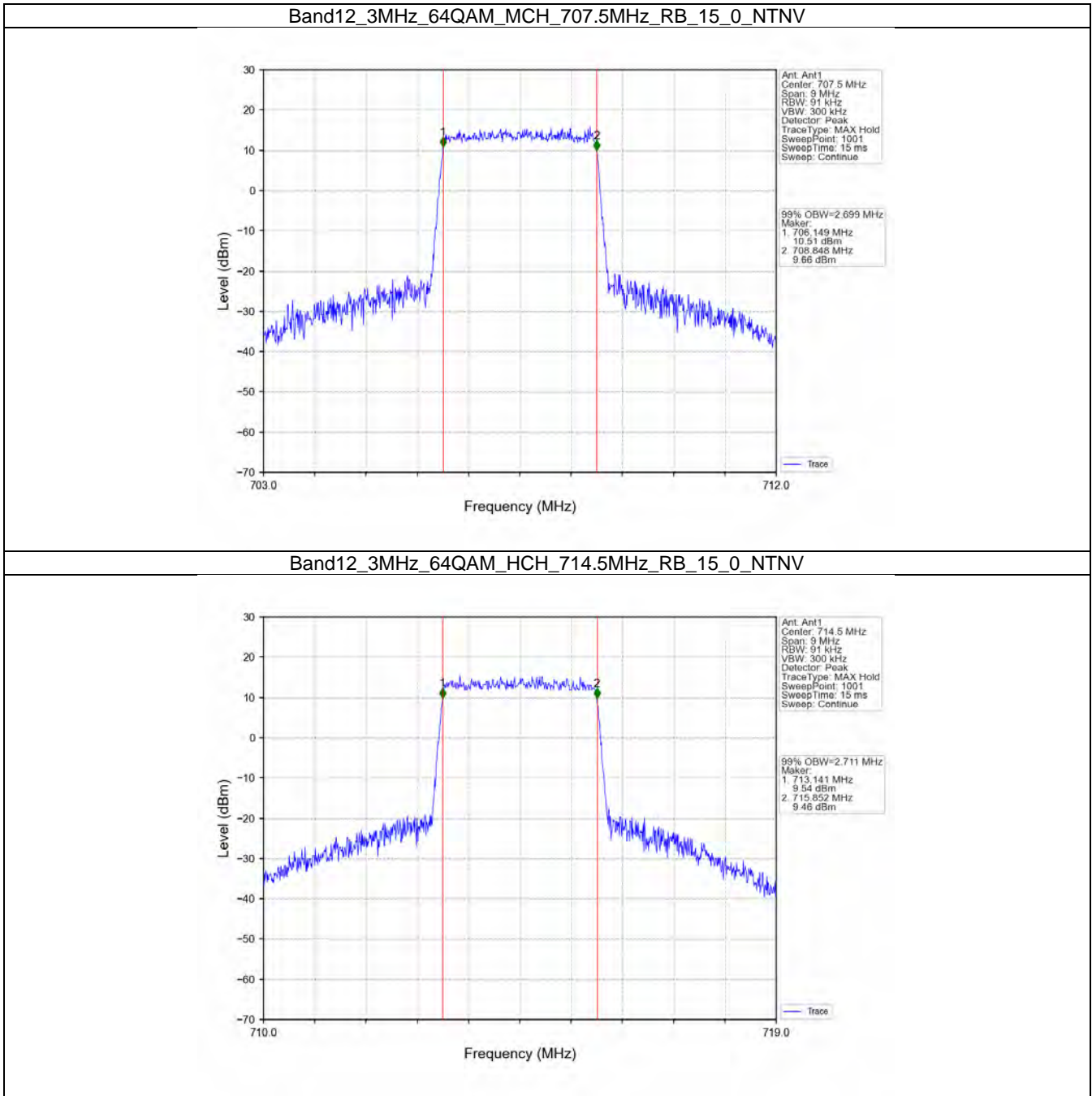
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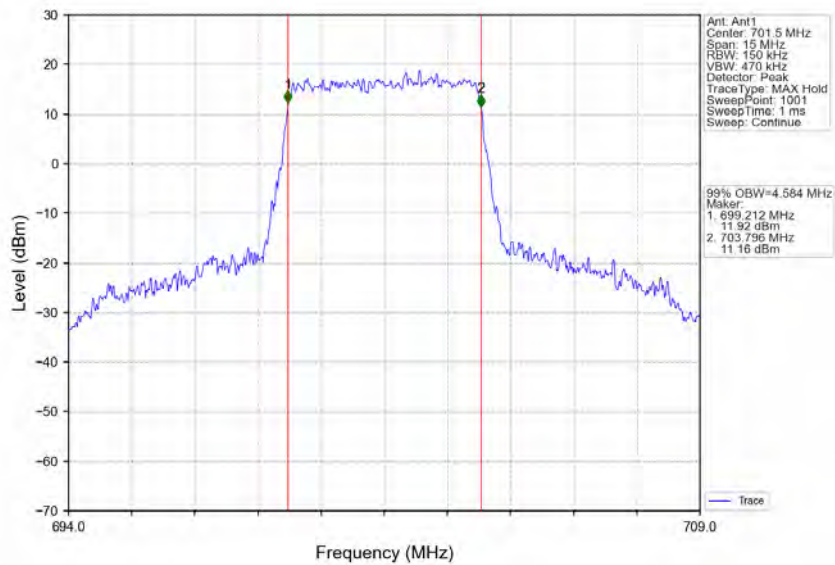
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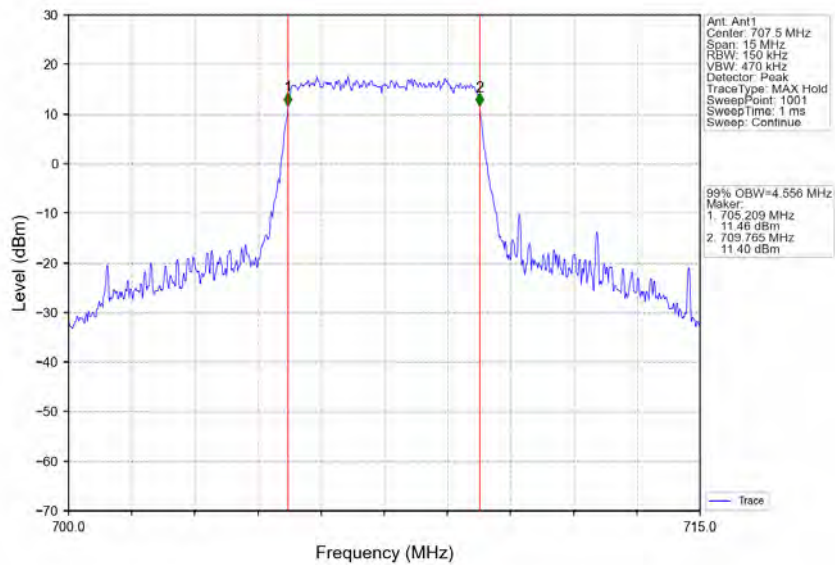
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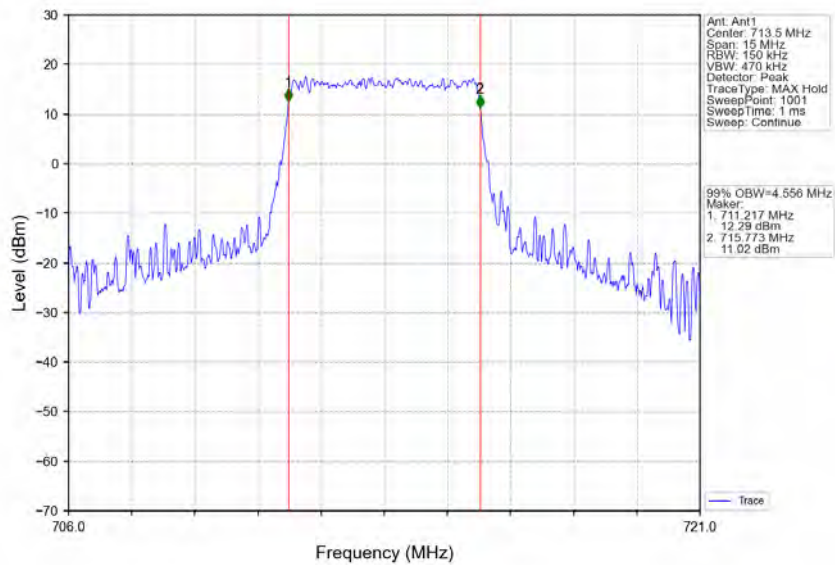
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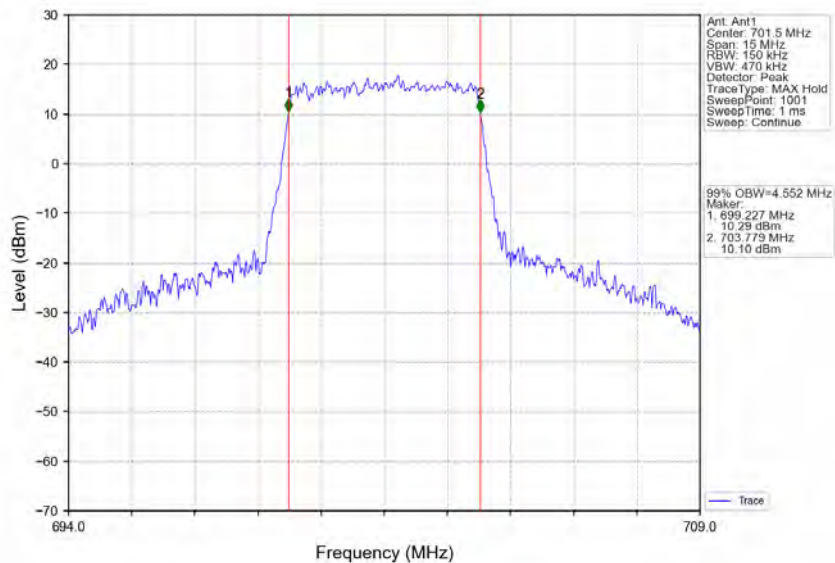
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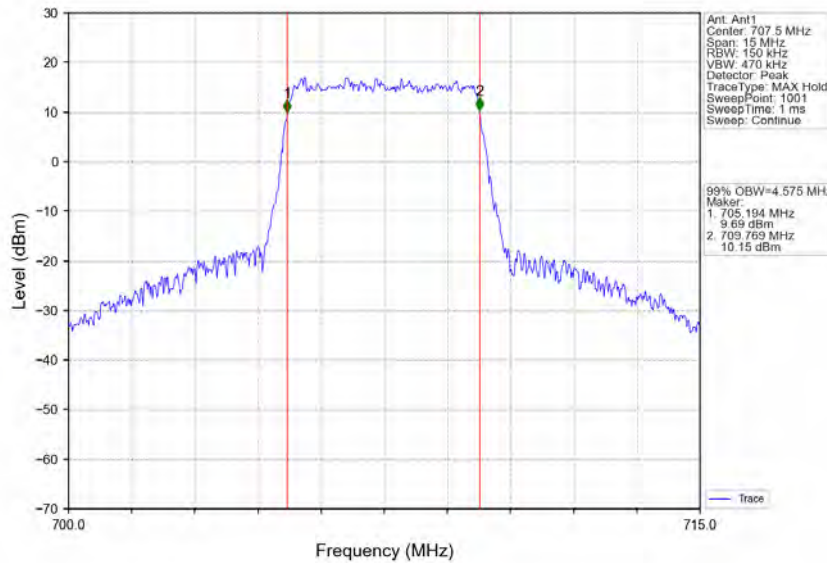
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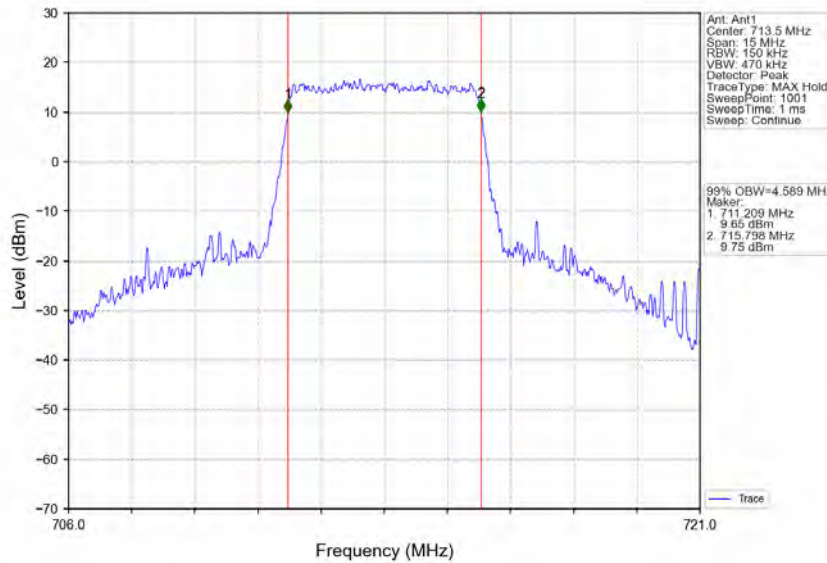
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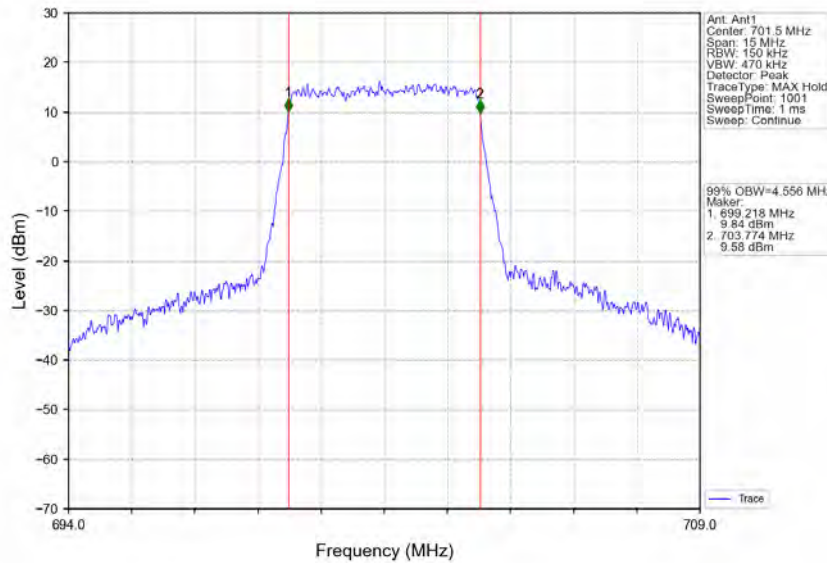
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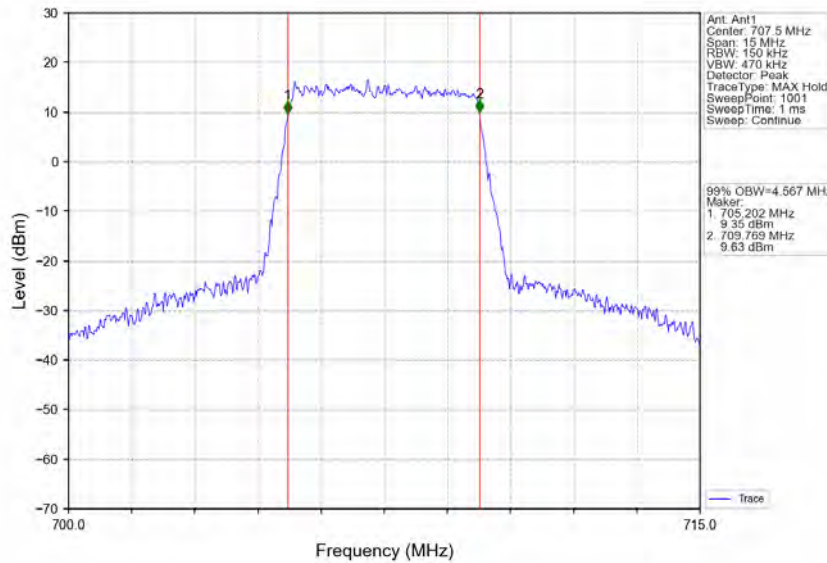
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Band12_5MHz_64QAM_LCH_701.5MHz_RB_25_0_NTNV



Band12_5MHz_64QAM_MCH_707.5MHz_RB_25_0_NTNV



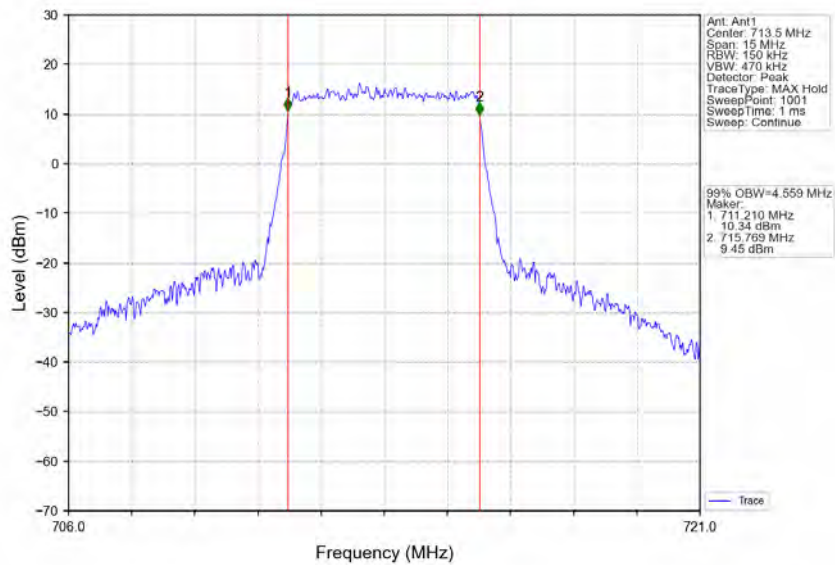
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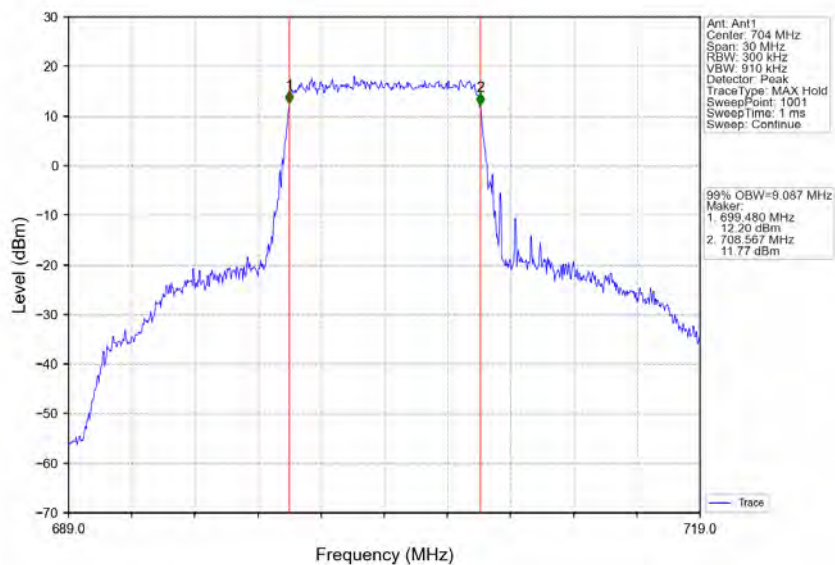
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Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



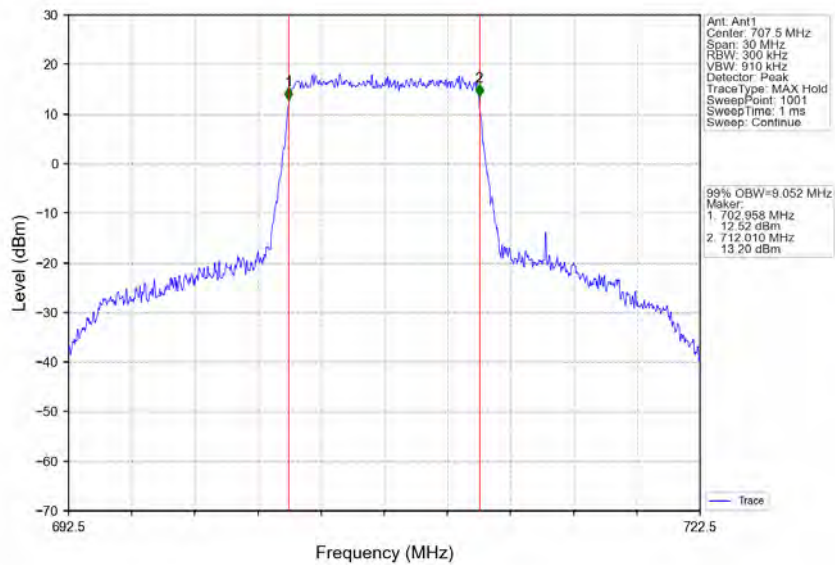
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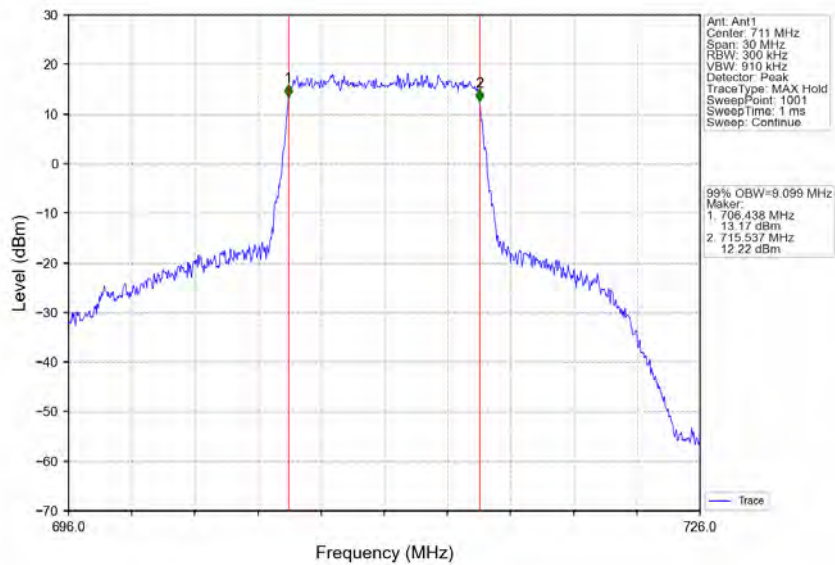
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Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



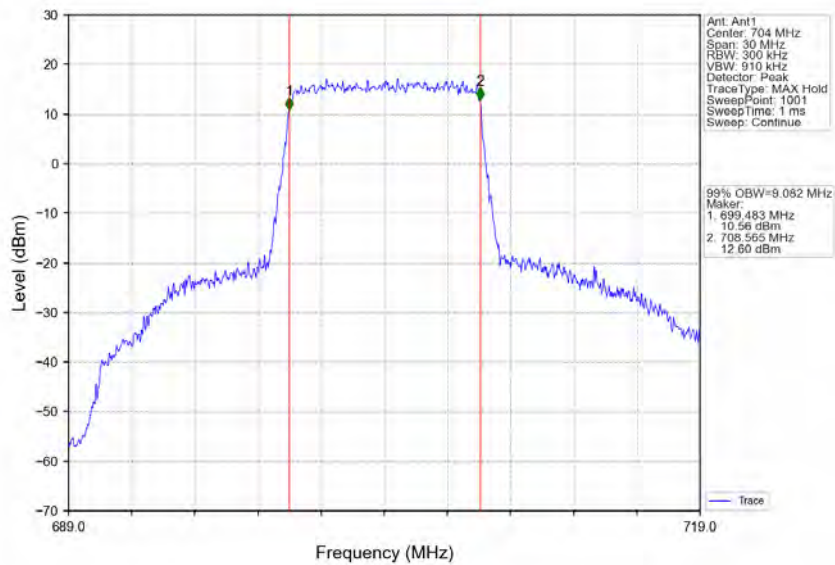
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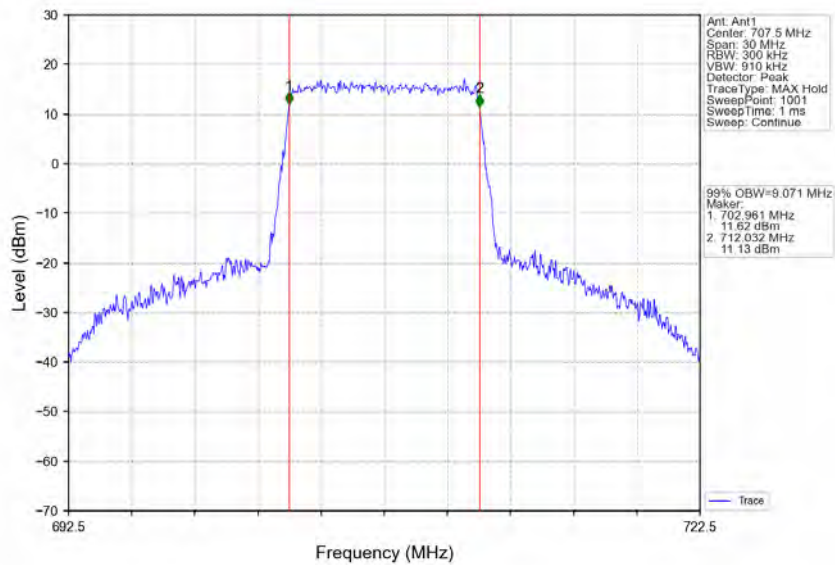
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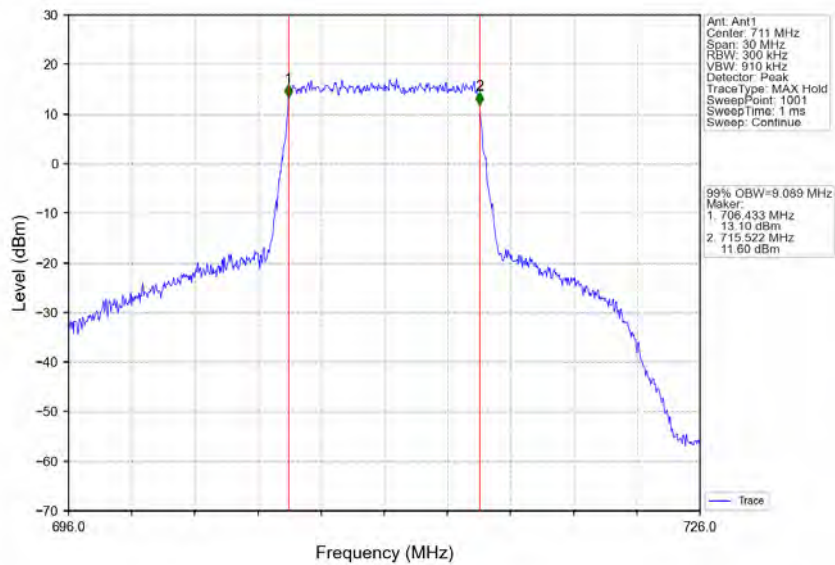
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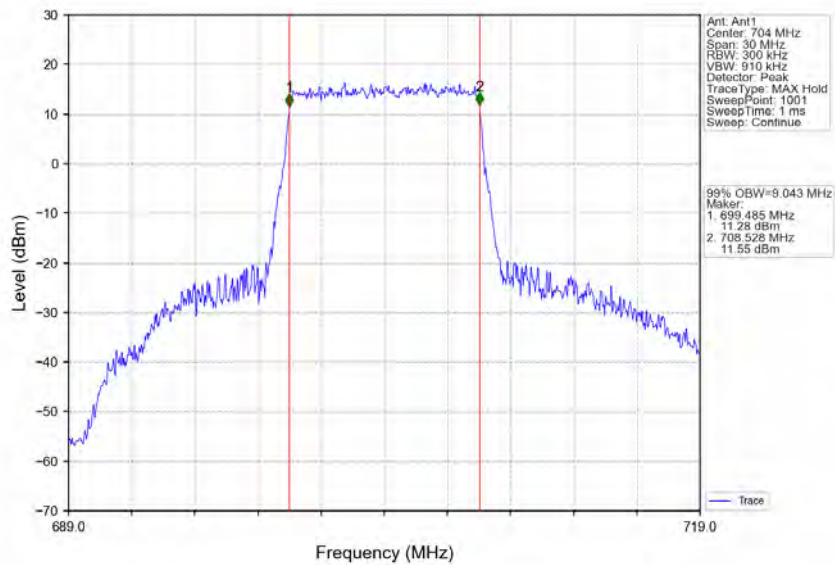
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Band12_10MHz_64QAM_LCH_704MHz_RB_50_0_NTNV



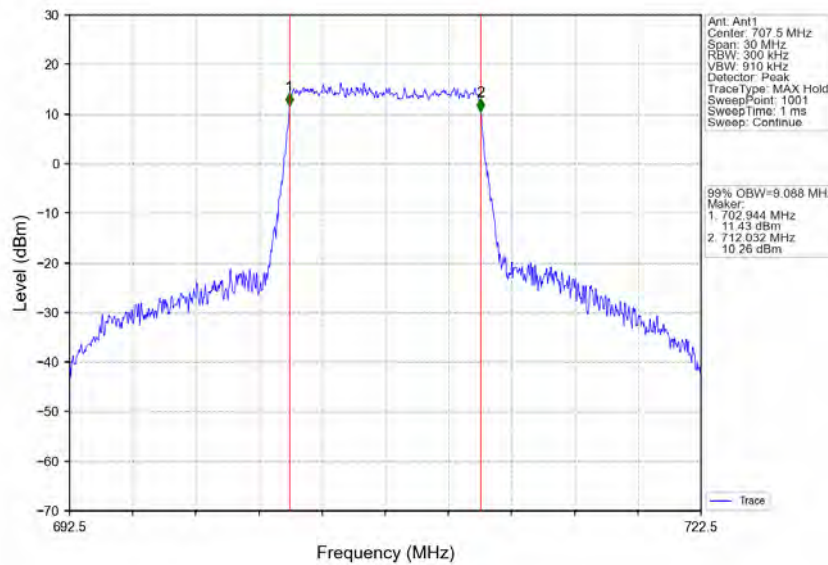
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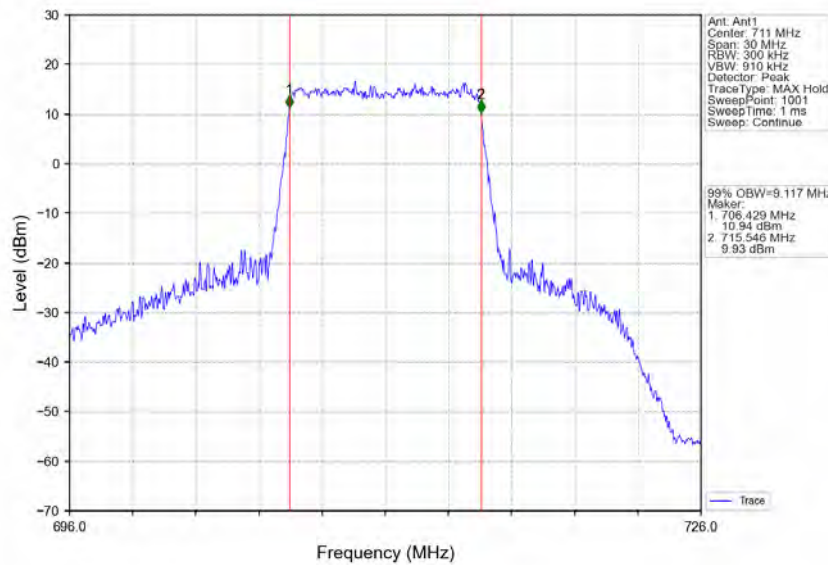
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Band12_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



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4.2 Band12_XDB

4.2.1 Test Result

Band: 12 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	699.7	6	0	1.316	Pass
		707.5	6	0	1.286	Pass
		715.3	6	0	1.317	Pass
	16QAM	699.7	6	0	1.300	Pass
		707.5	6	0	1.317	Pass
		715.3	6	0	1.308	Pass
	64QAM	699.7	6	0	1.330	Pass
		707.5	6	0	1.298	Pass
		715.3	6	0	1.314	Pass
3	QPSK	700.5	15	0	2.982	Pass
		707.5	15	0	2.947	Pass
		714.5	15	0	2.963	Pass
	16QAM	700.5	15	0	2.964	Pass
		707.5	15	0	2.965	Pass
		714.5	15	0	2.966	Pass
	64QAM	700.5	15	0	2.966	Pass
		707.5	15	0	2.958	Pass
		714.5	15	0	2.977	Pass
5	QPSK	701.5	25	0	5.168	Pass
		707.5	25	0	5.243	Pass
		713.5	25	0	5.487	Pass
	16QAM	701.5	25	0	5.204	Pass
		707.5	25	0	5.290	Pass
		713.5	25	0	5.296	Pass
	64QAM	701.5	25	0	5.245	Pass
		707.5	25	0	5.260	Pass
		713.5	25	0	5.235	Pass
10	QPSK	704	50	0	10.638	Pass
		707.5	50	0	10.310	Pass
		711	50	0	10.293	Pass
	16QAM	704	50	0	10.222	Pass
		707.5	50	0	10.214	Pass
		711	50	0	10.346	Pass
	64QAM	704	50	0	10.264	Pass
		707.5	50	0	10.228	Pass
		711	50	0	10.242	Pass



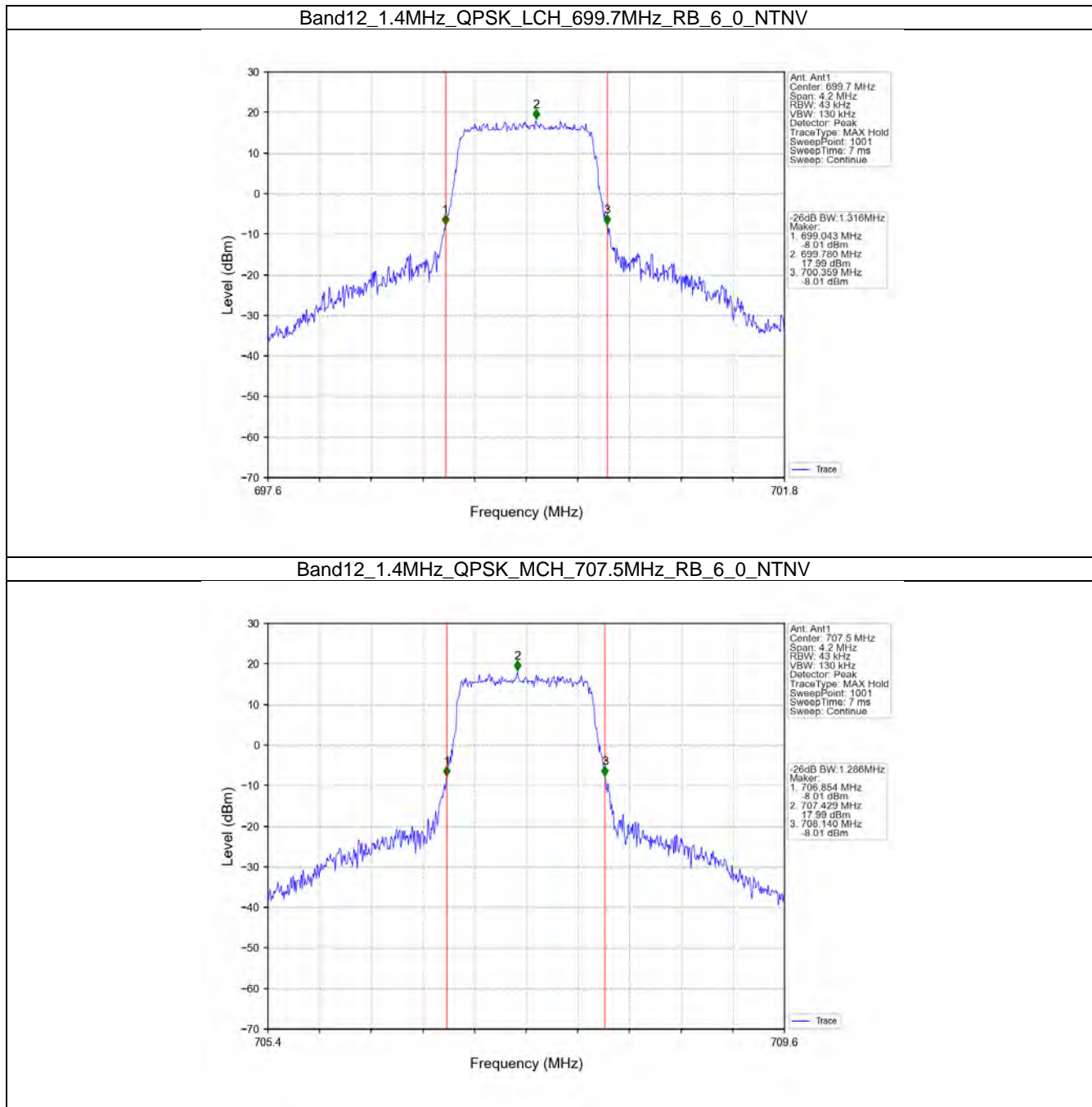
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4.2.2 Test Graph



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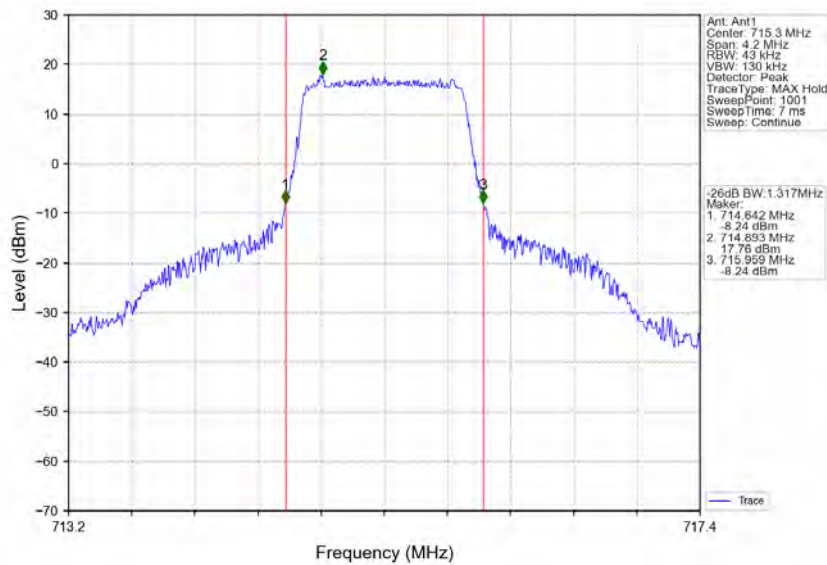
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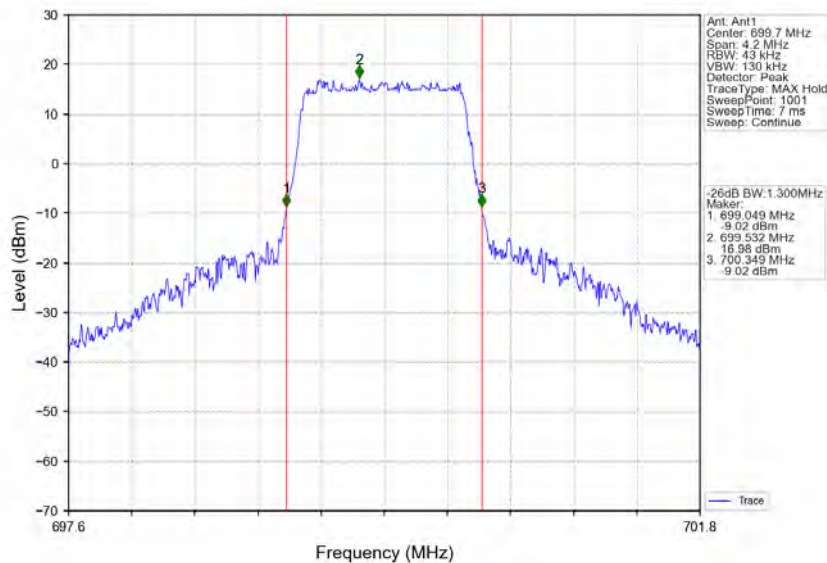
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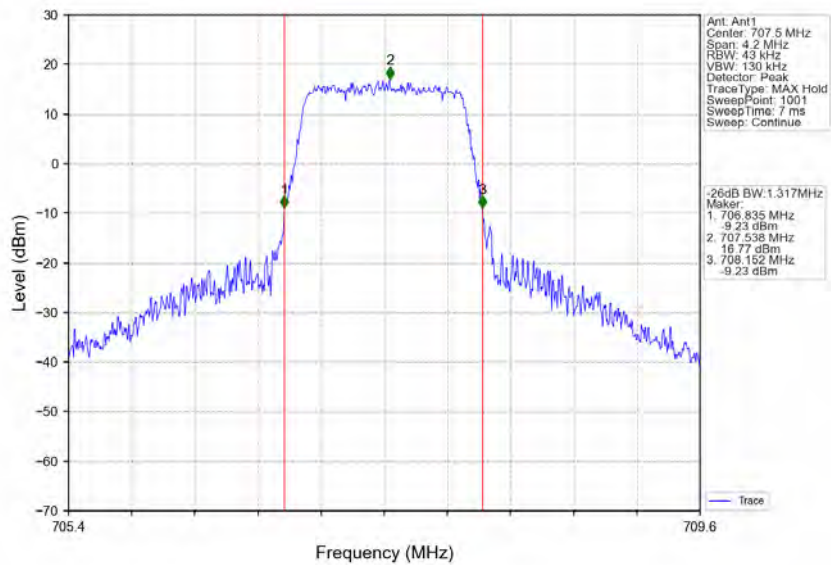
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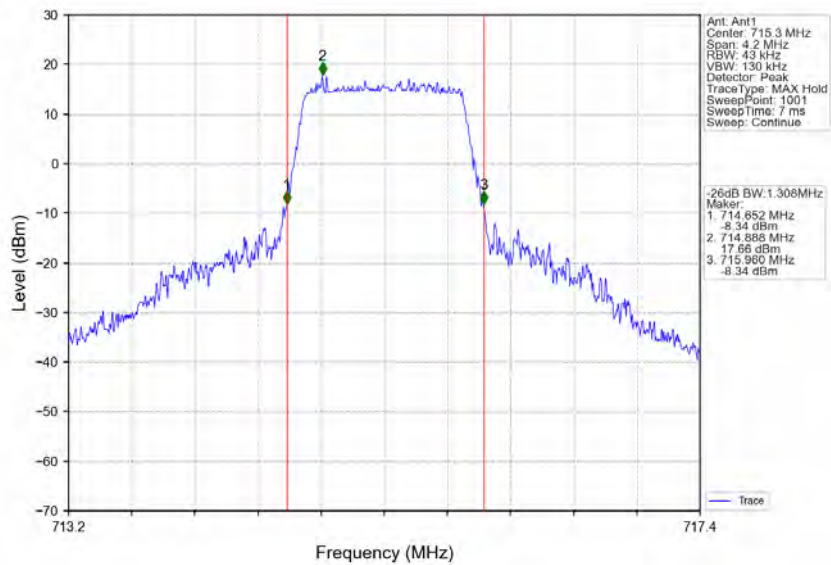
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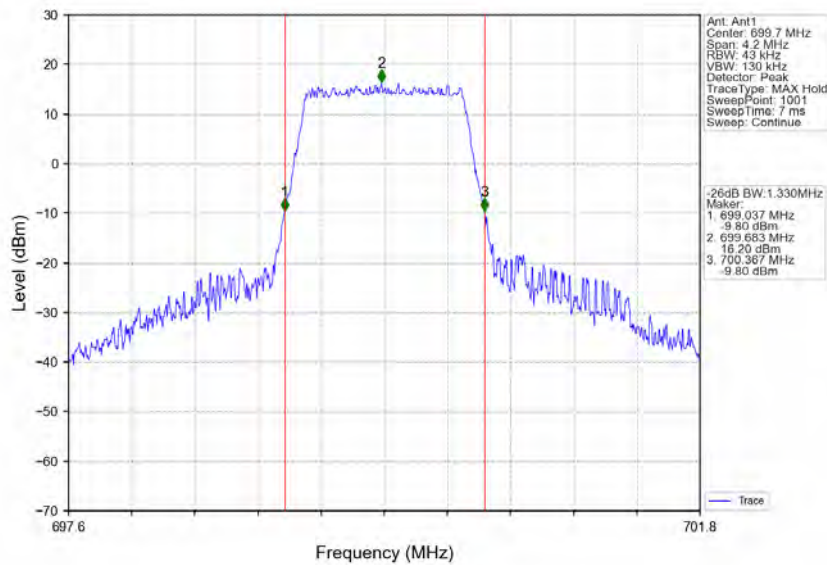
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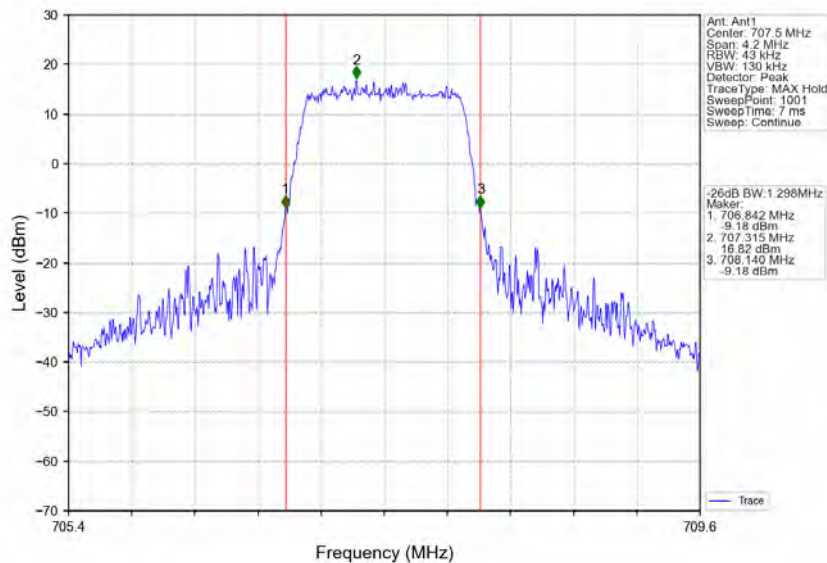
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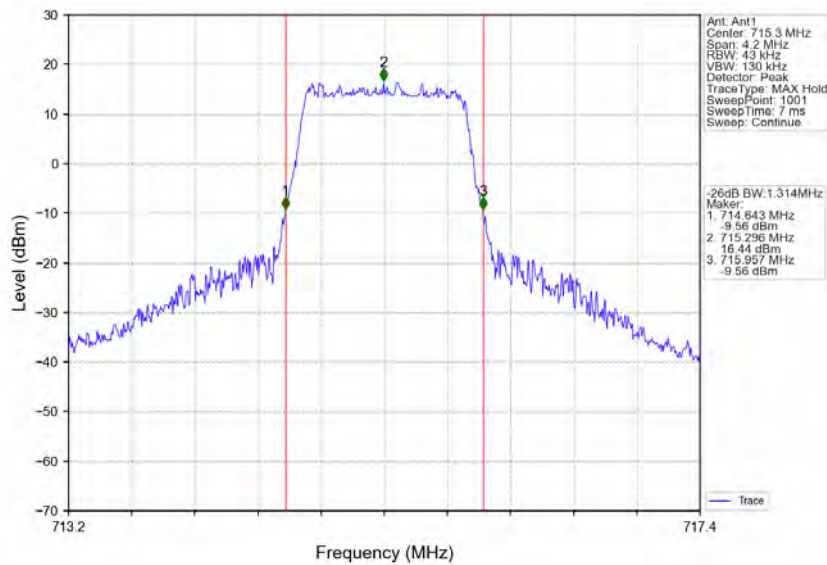
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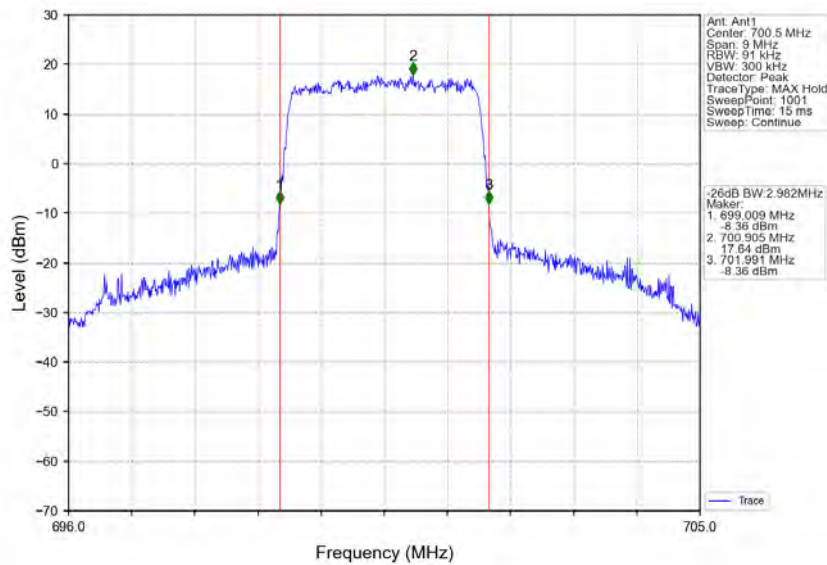
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Band12_1.4MHz_64QAM_HCH_715.3MHz_RB_6_0_NTNV



Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



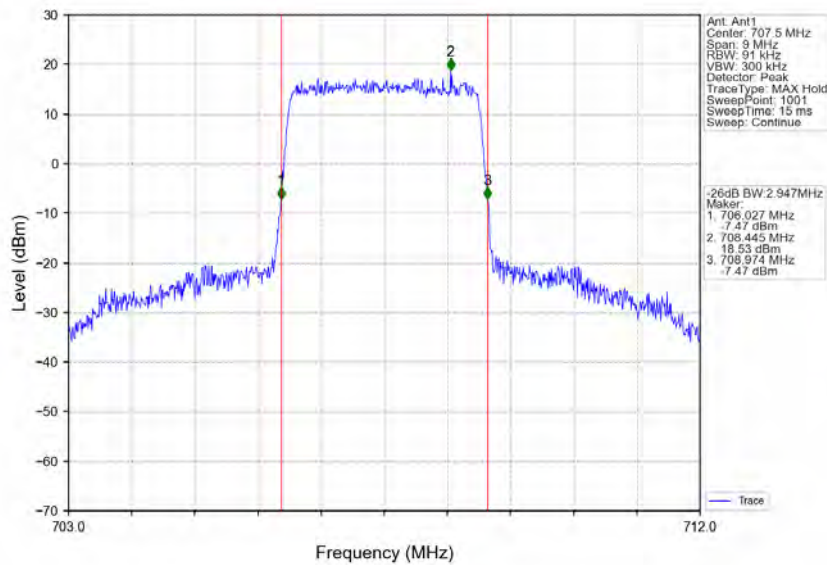
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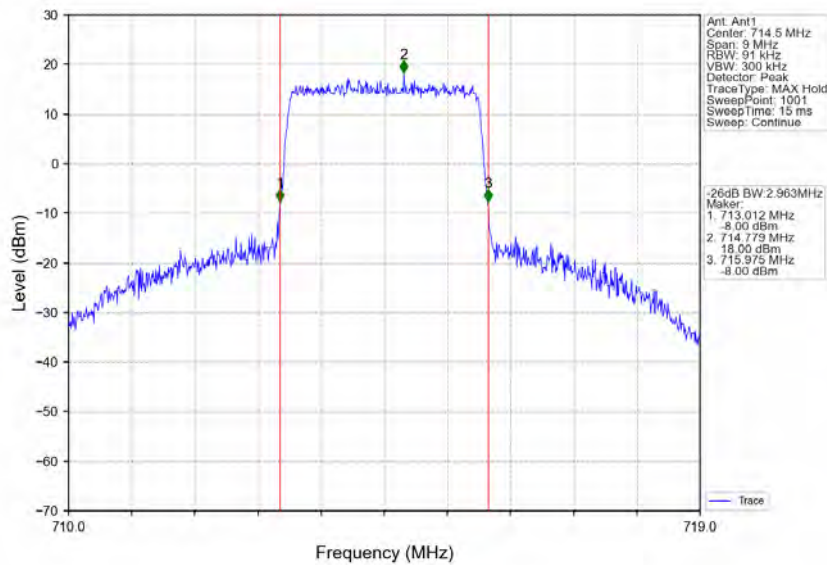
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Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



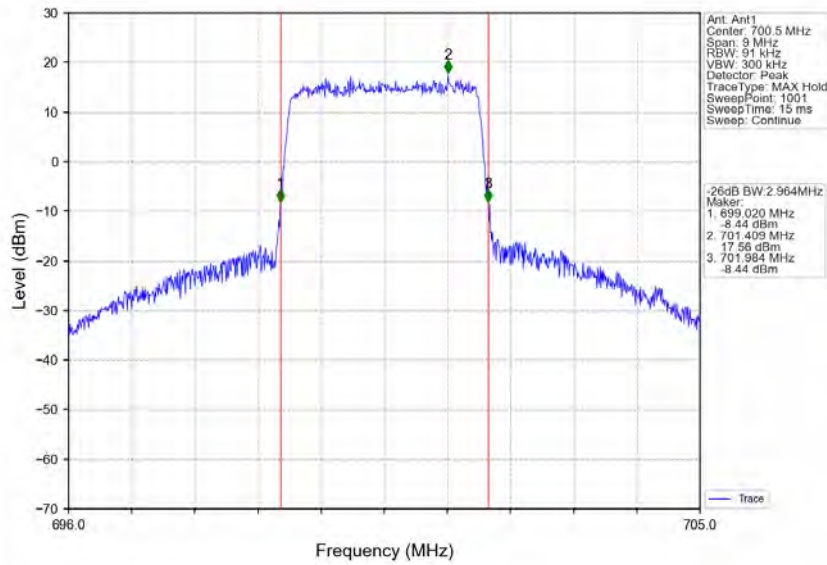
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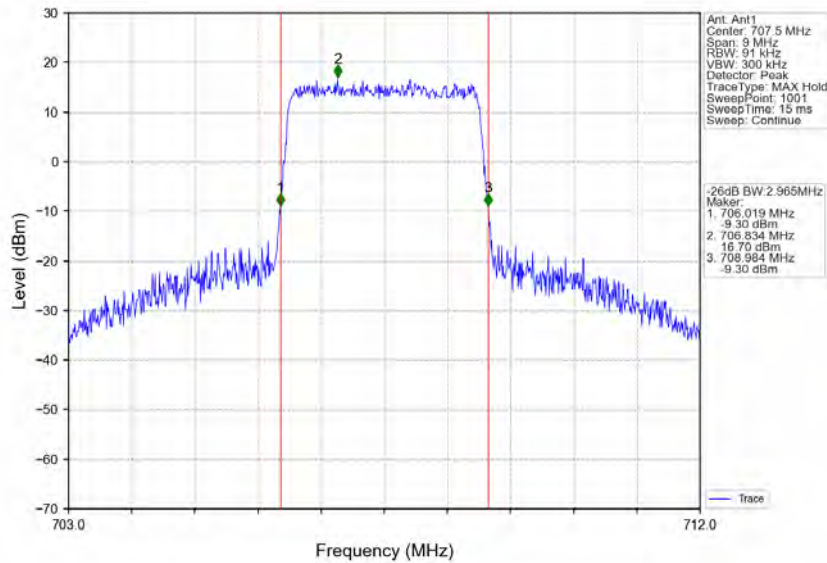
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Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



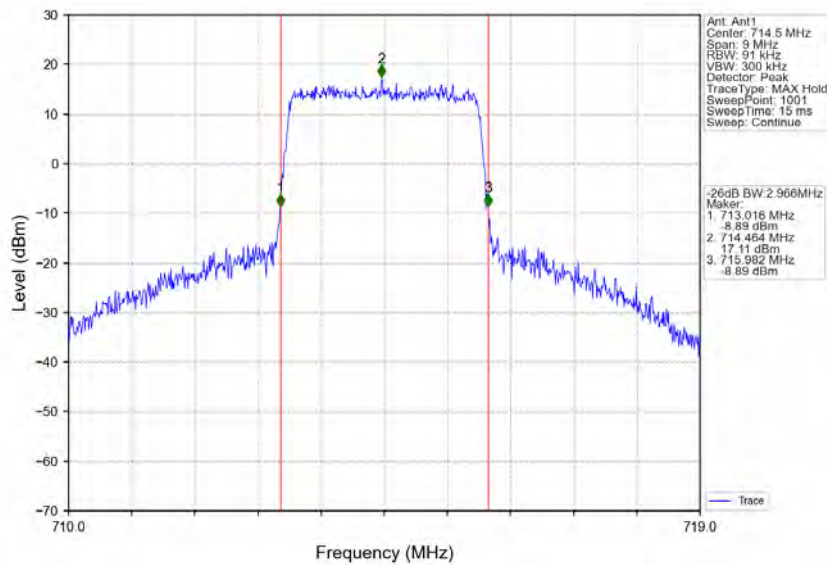
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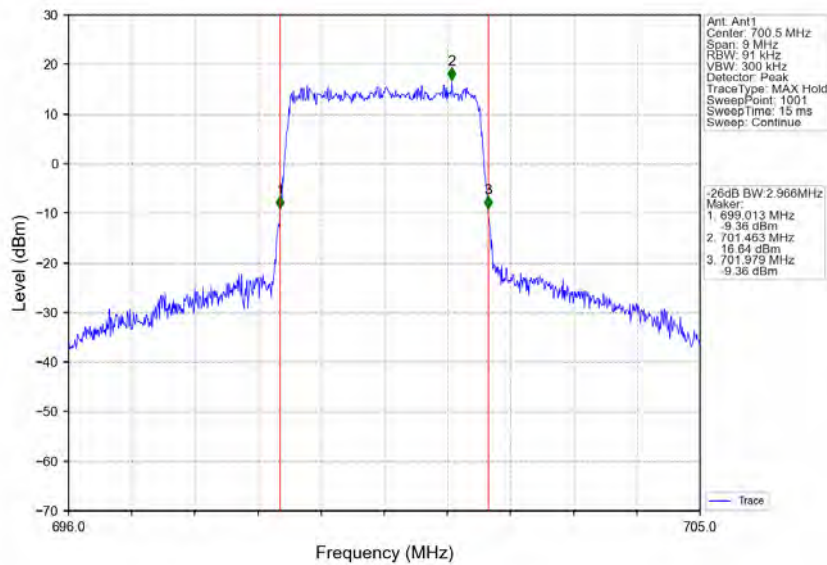
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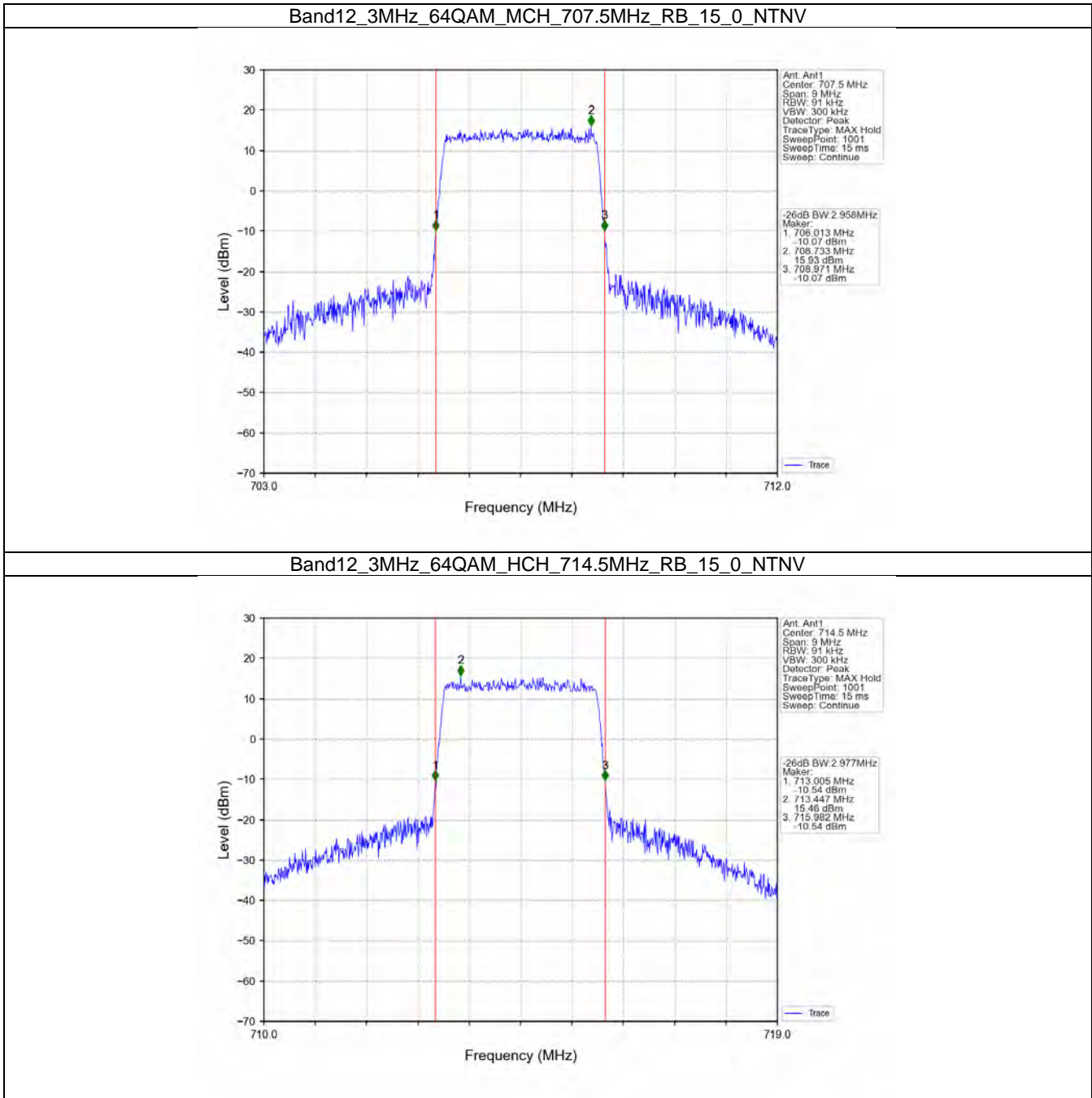


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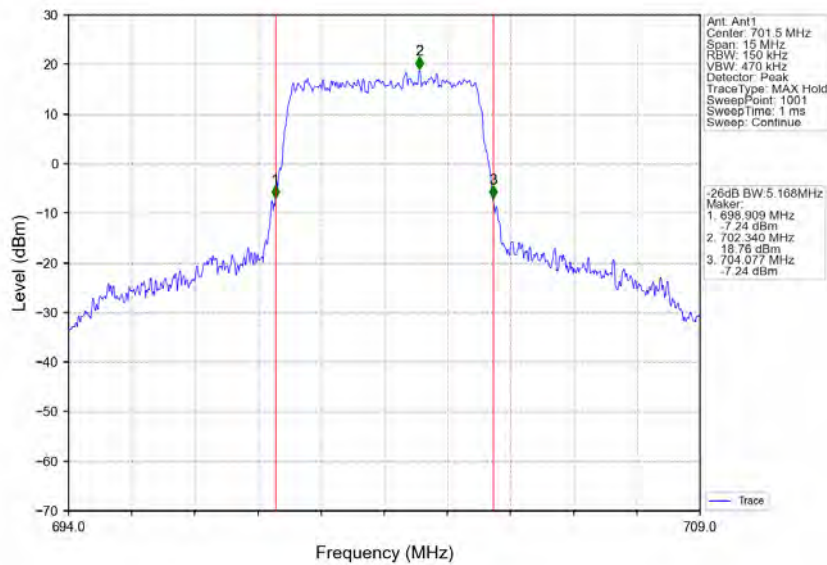
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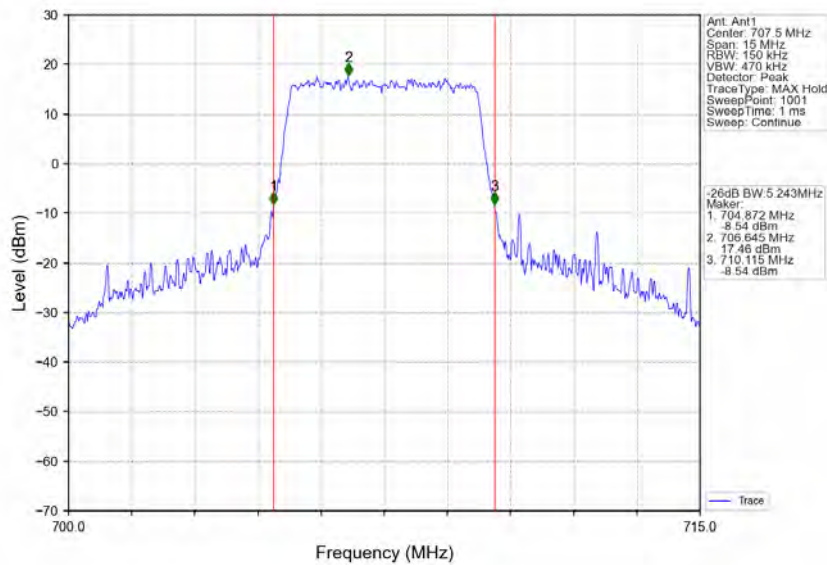
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Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



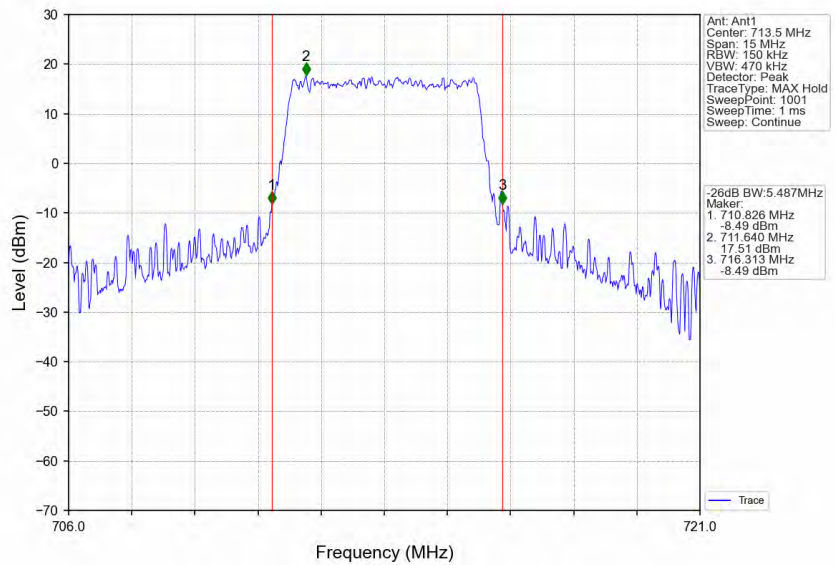
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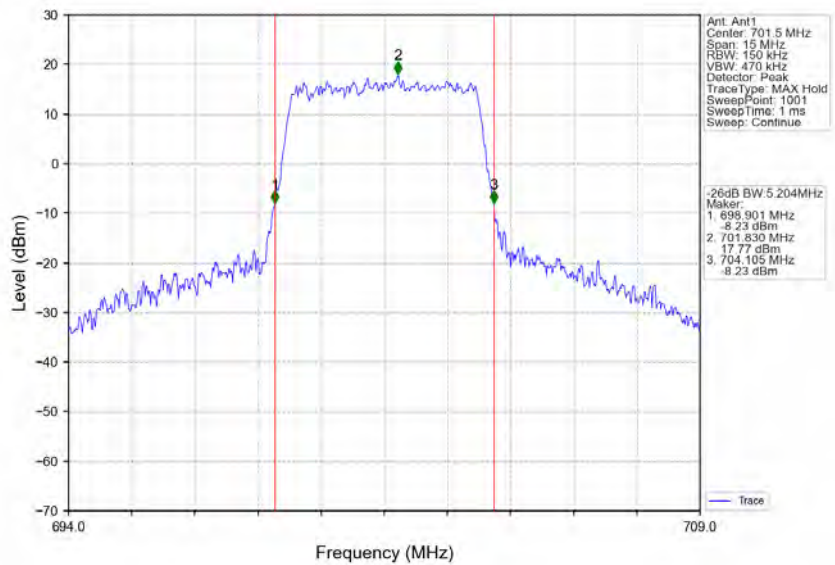
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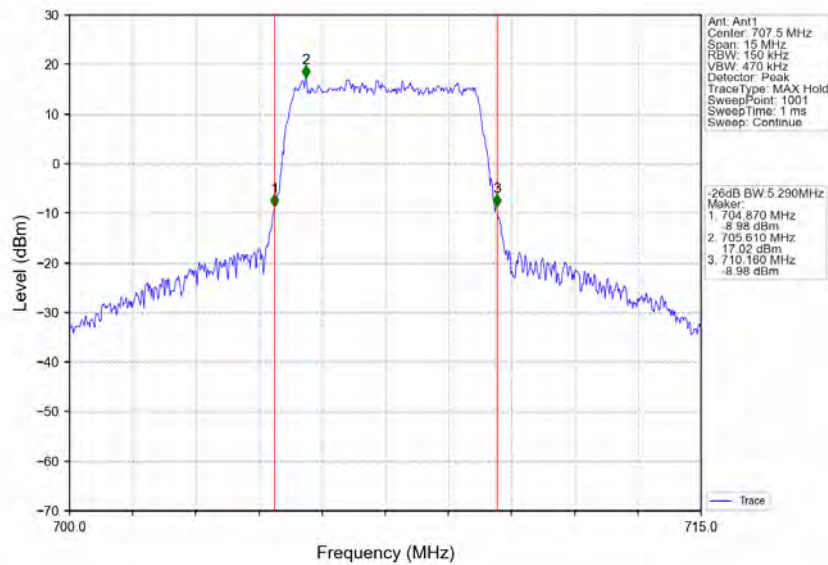
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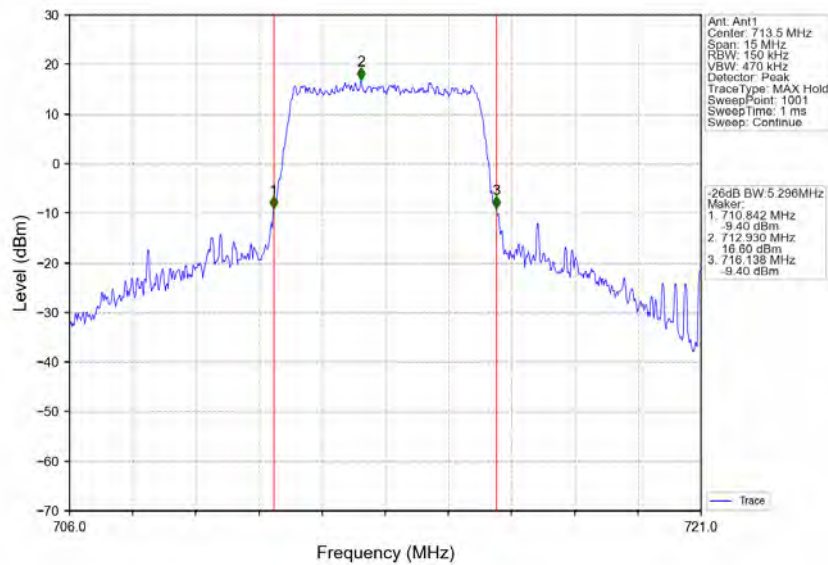
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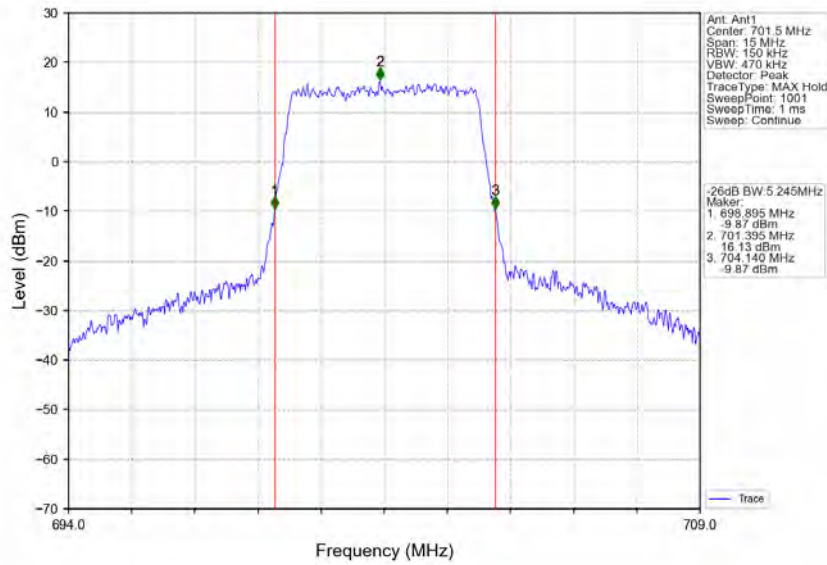
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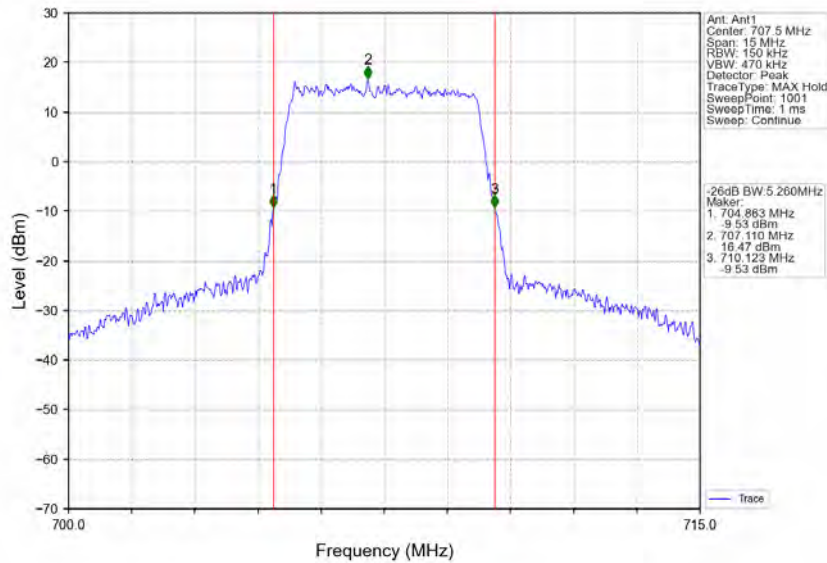
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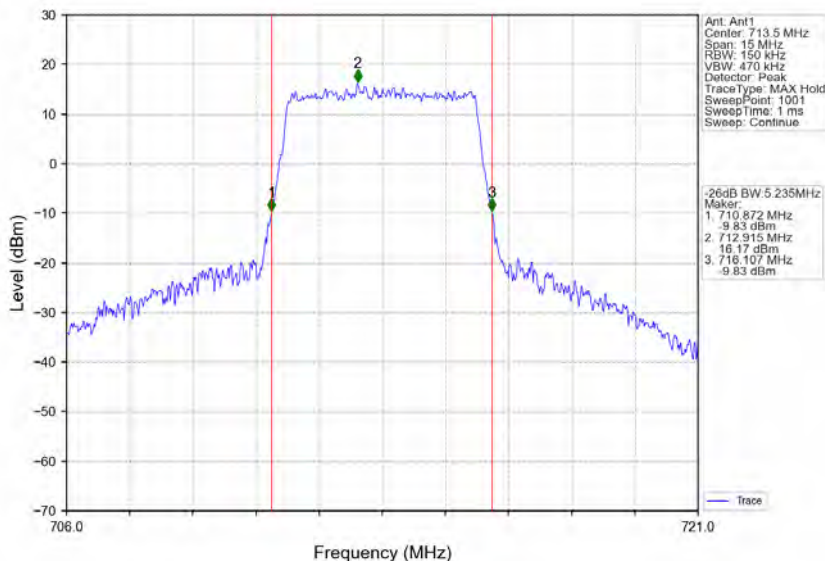
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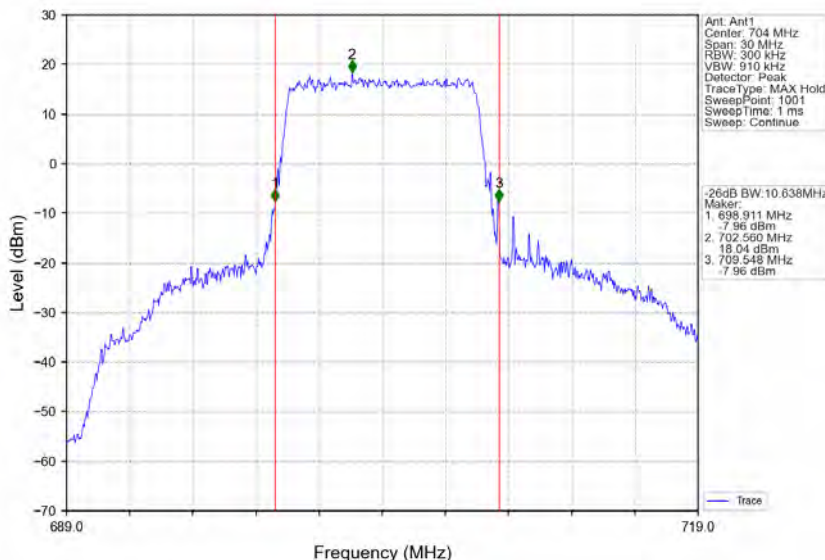
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Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



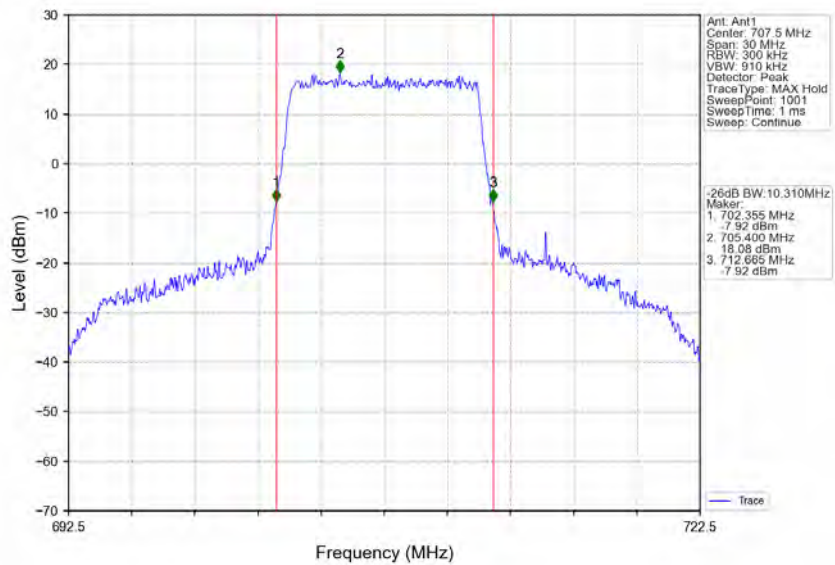
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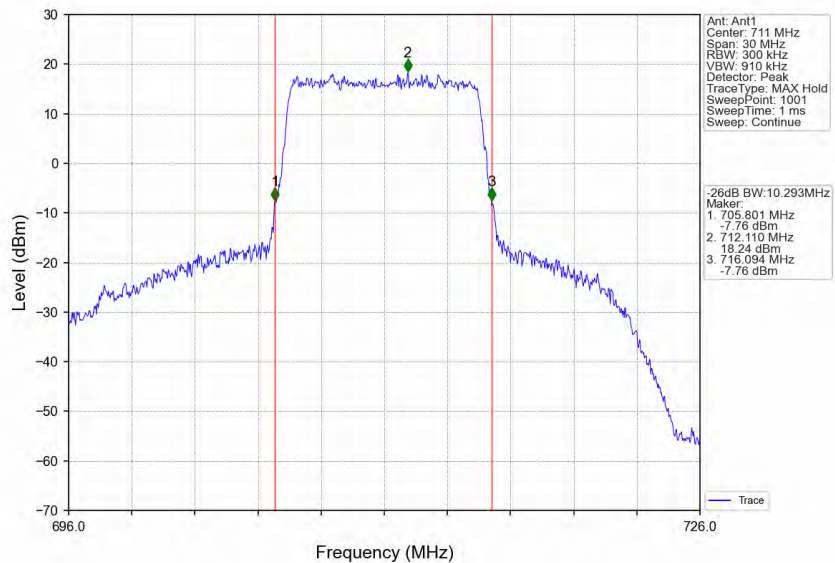
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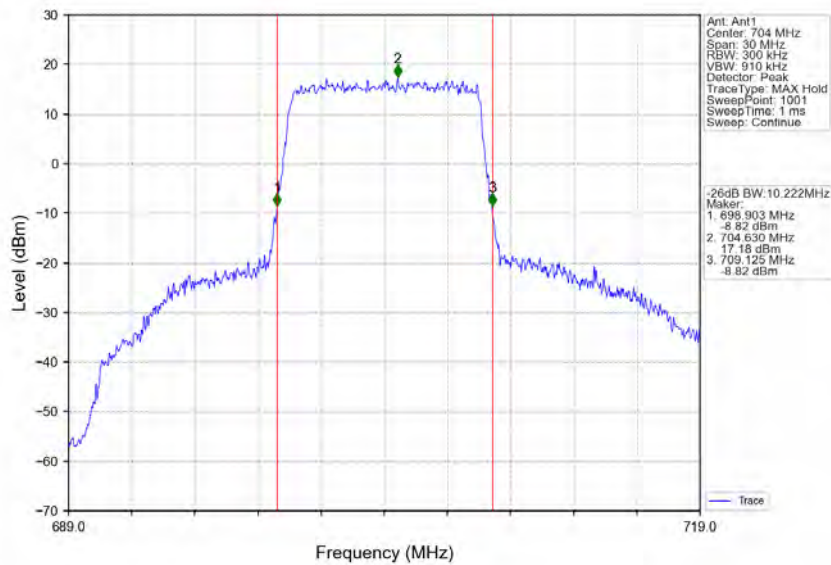
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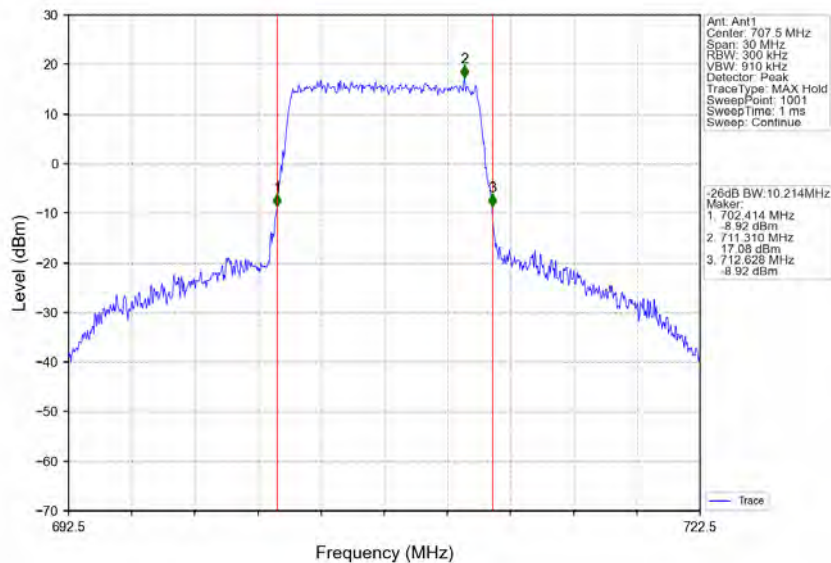
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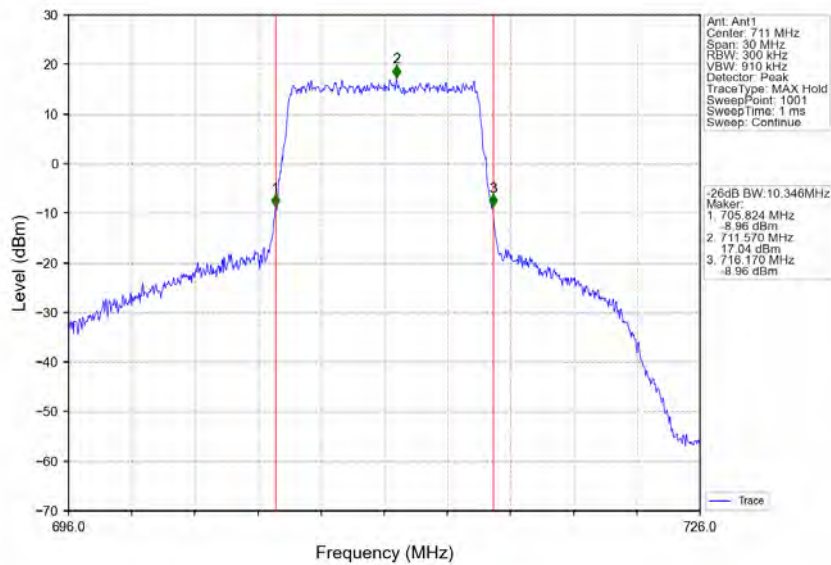
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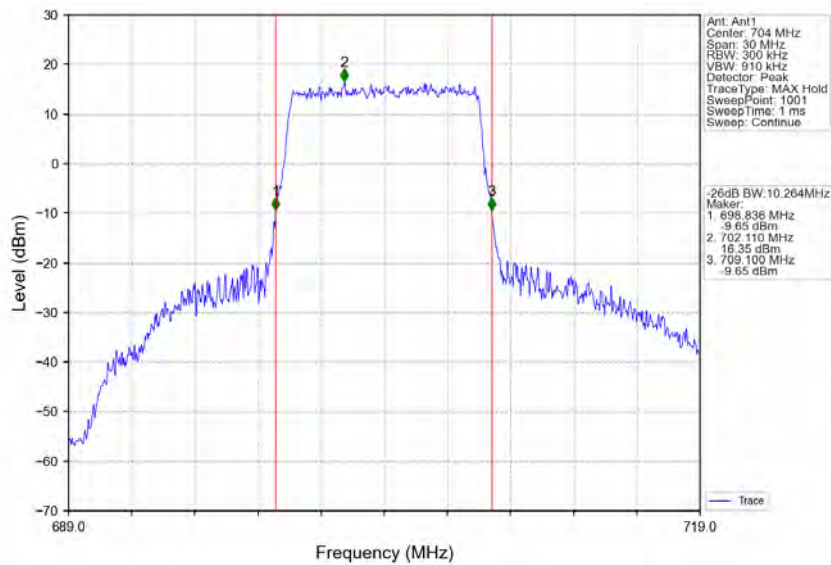
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Band12_10MHz_64QAM_LCH_704MHz_RB_50_0_NTNV



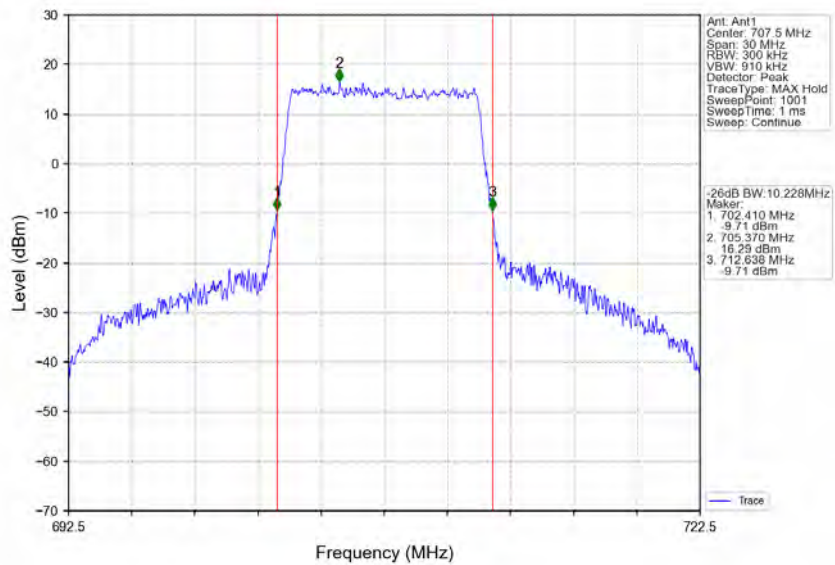
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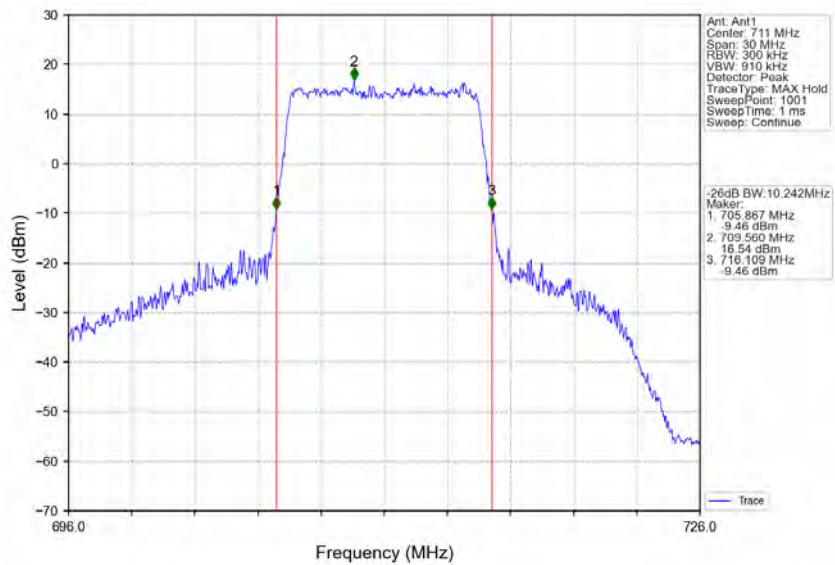
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Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



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5. Peak-Average Ratio

5.1 B12_1.4MHz

5.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	4.64	<=13	Pass
	707.5	6	0	4.83	<=13	Pass
	715.3	6	0	4.22	<=13	Pass
16QAM	699.7	6	0	5.55	<=13	Pass
	707.5	6	0	5.70	<=13	Pass
	715.3	6	0	5.10	<=13	Pass
64QAM	699.7	6	0	5.87	<=13	Pass
	707.5	6	0	6.32	<=13	Pass
	715.3	6	0	5.76	<=13	Pass



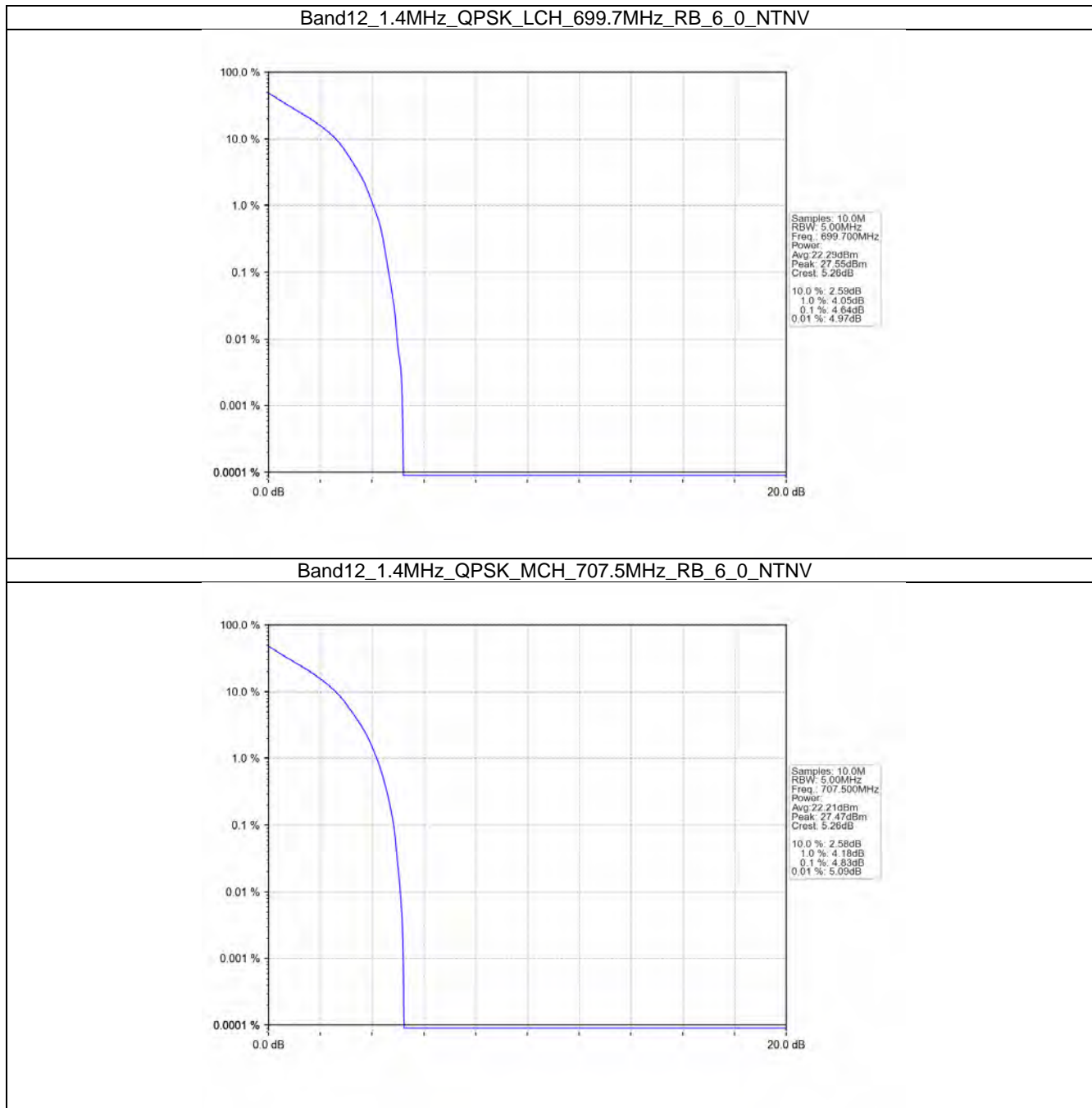
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5.1.2 Test Graph



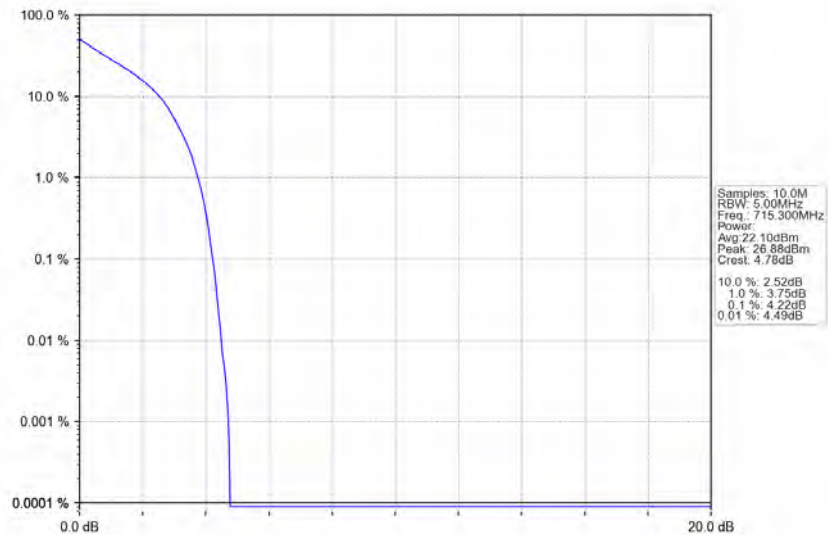
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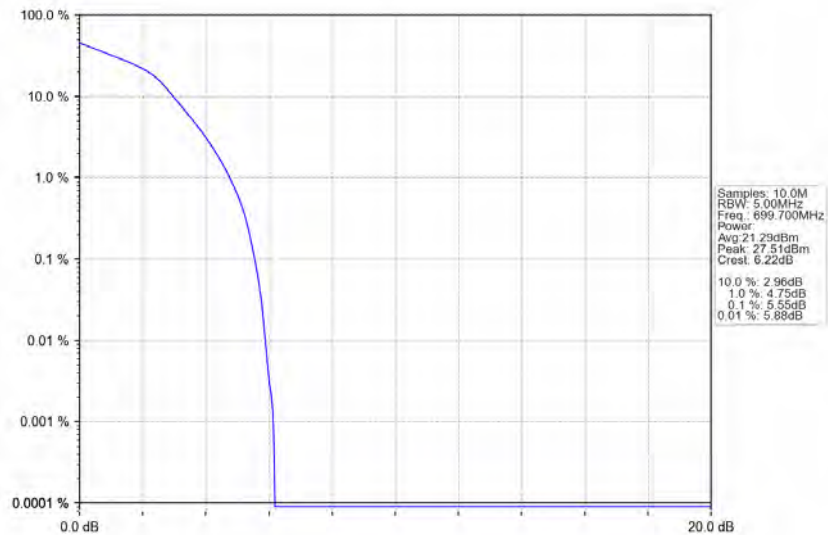
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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



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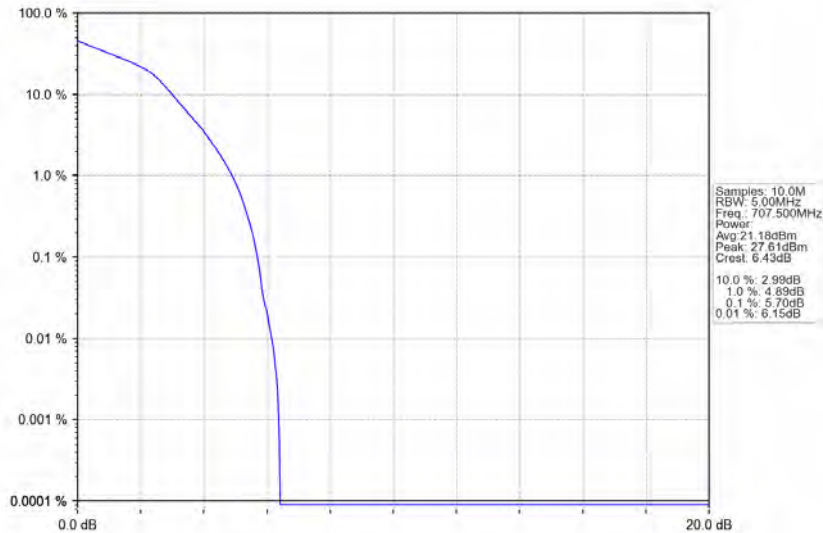
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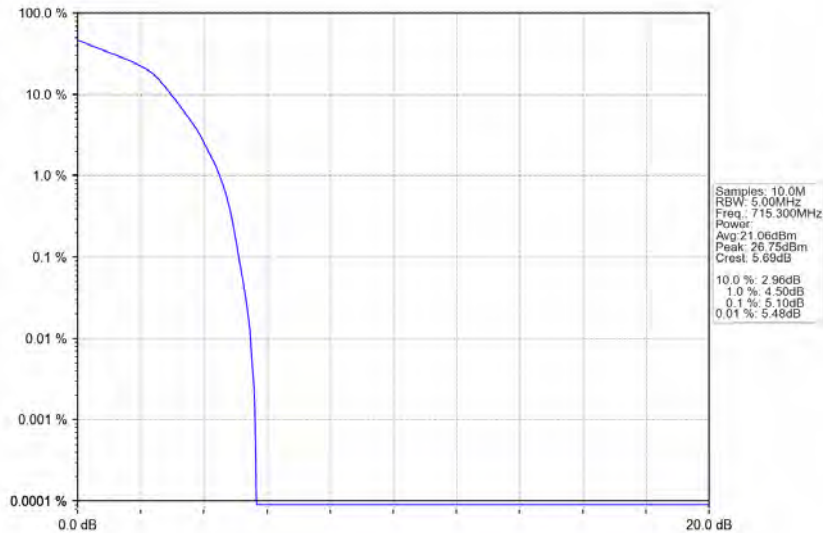
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Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



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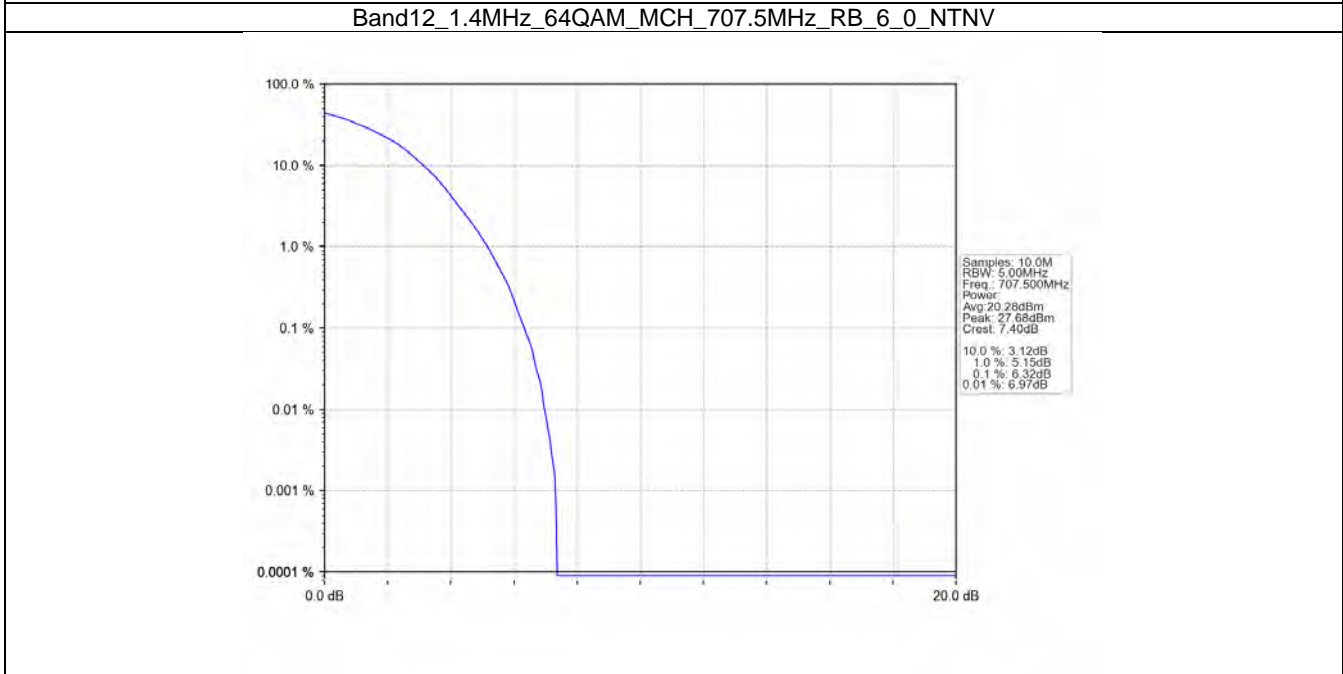
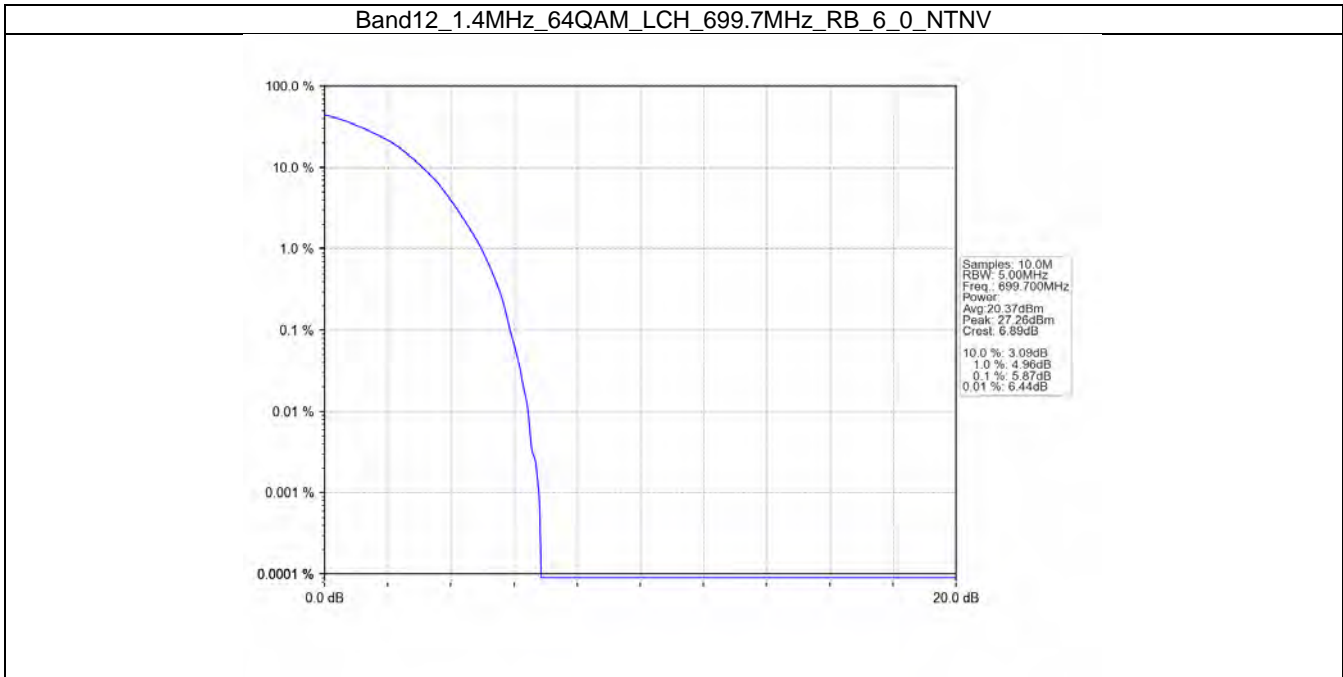


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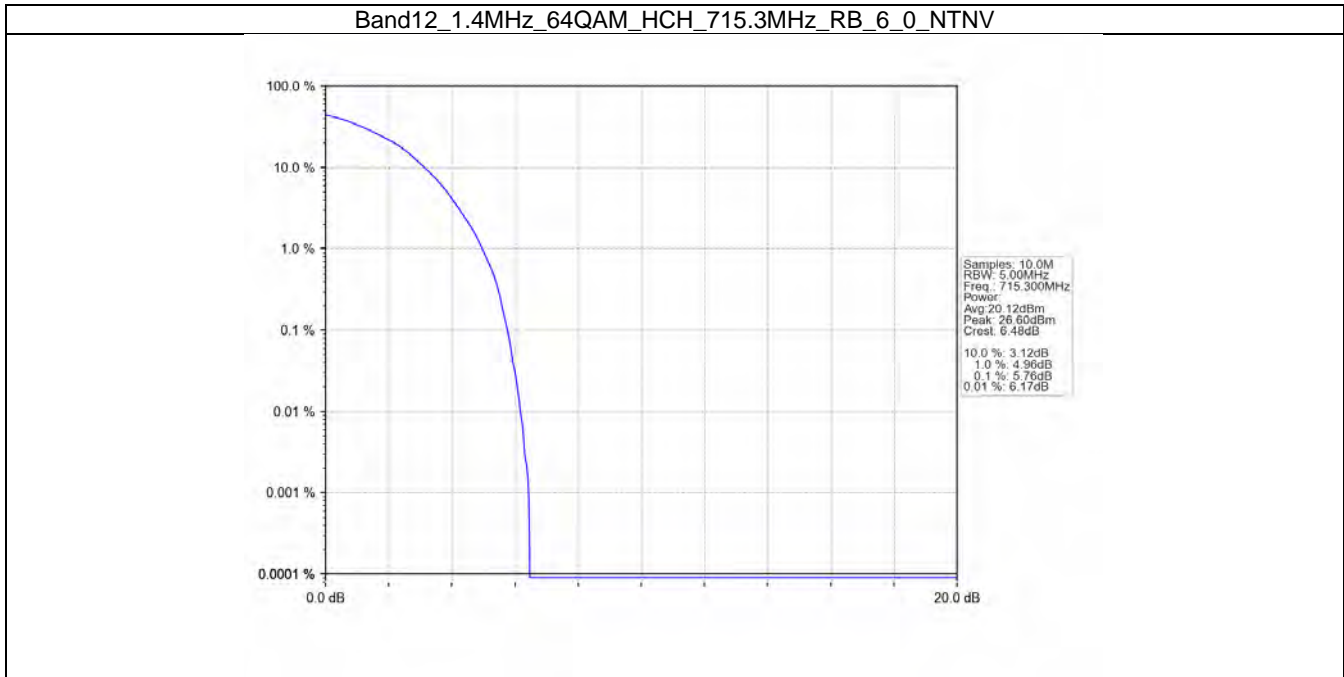
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5.2 B12_3MHz

5.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	4.90	<=13	Pass
	707.5	15	0	5.00	<=13	Pass
	714.5	15	0	4.54	<=13	Pass
16QAM	700.5	15	0	5.75	<=13	Pass
	707.5	15	0	5.88	<=13	Pass
	714.5	15	0	5.39	<=13	Pass
64QAM	700.5	15	0	6.19	<=13	Pass
	707.5	15	0	6.26	<=13	Pass
	714.5	15	0	6.01	<=13	Pass

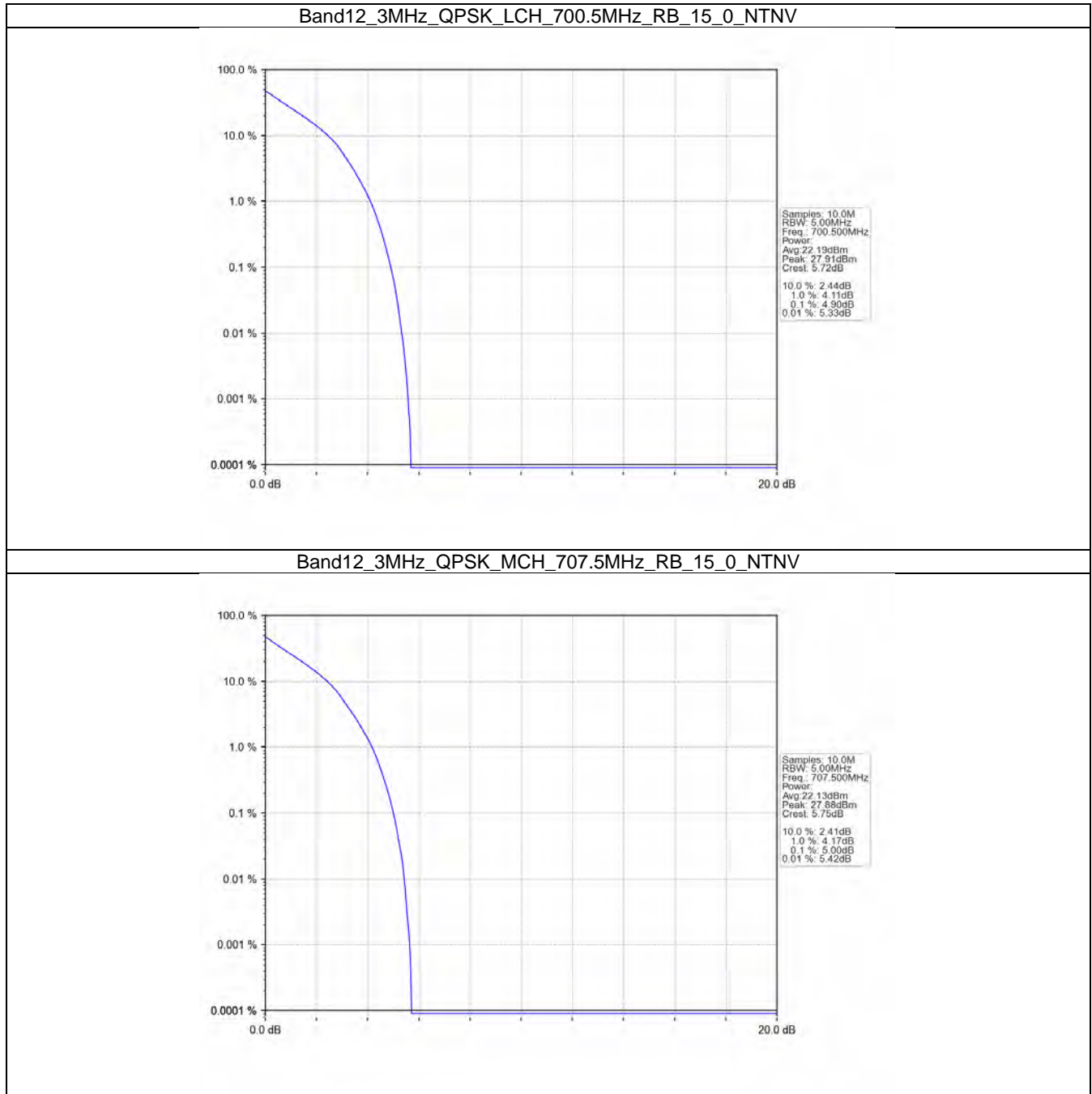


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5.2.2 Test Graph



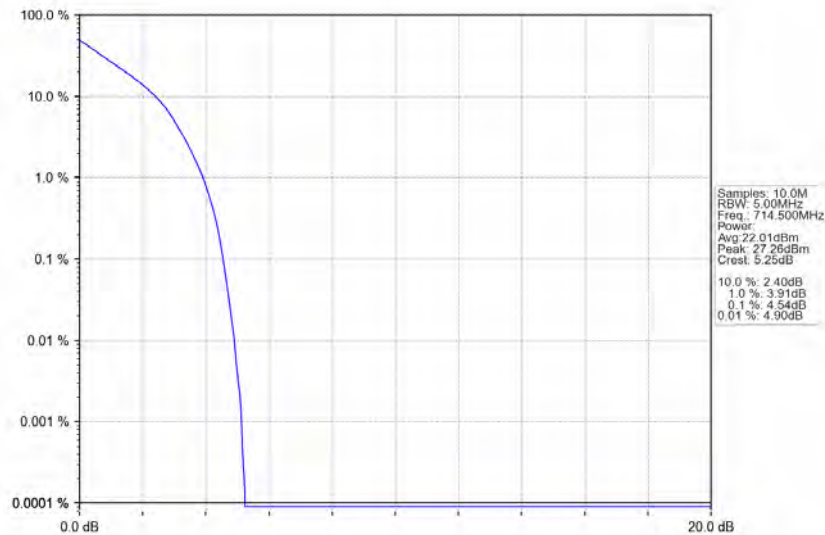
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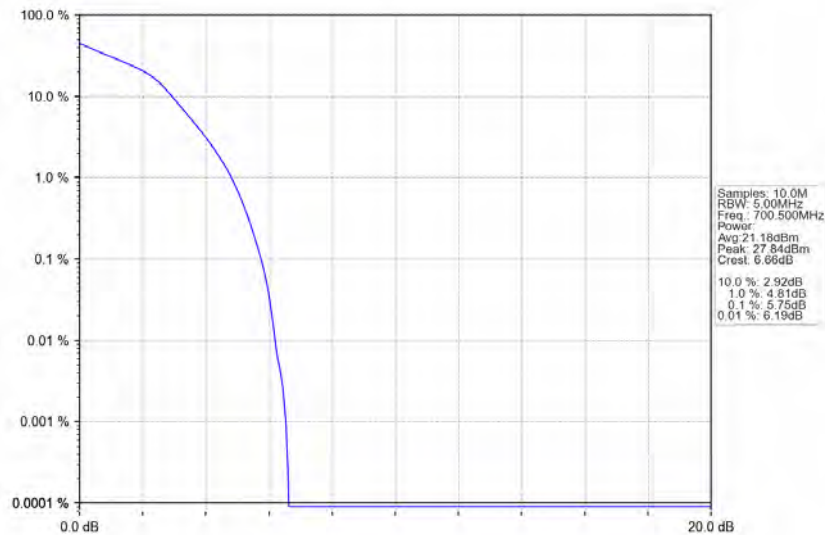
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Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



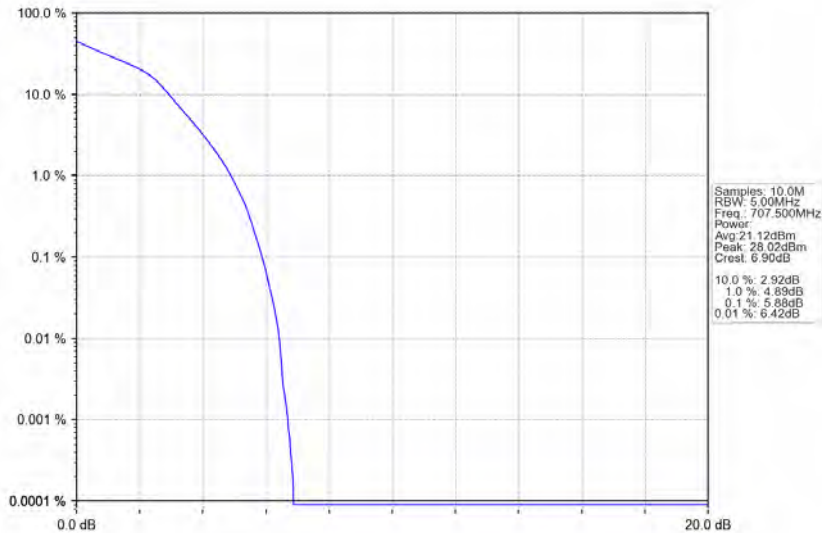
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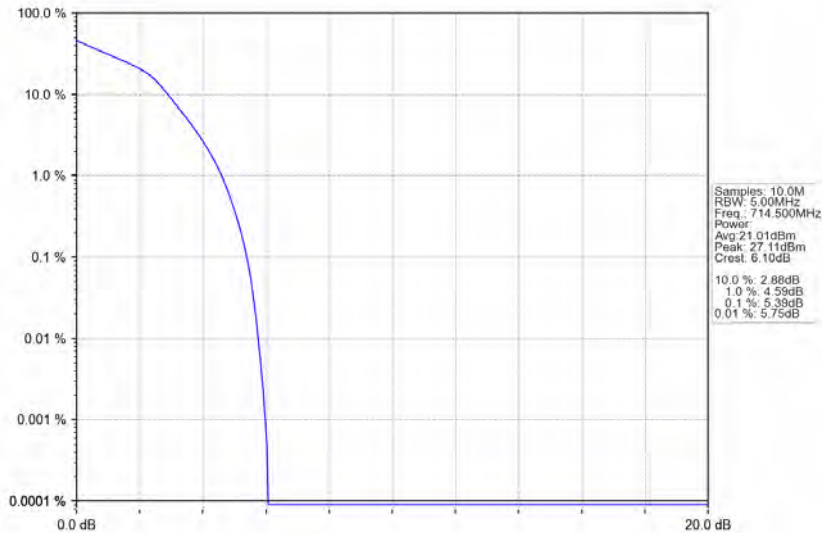
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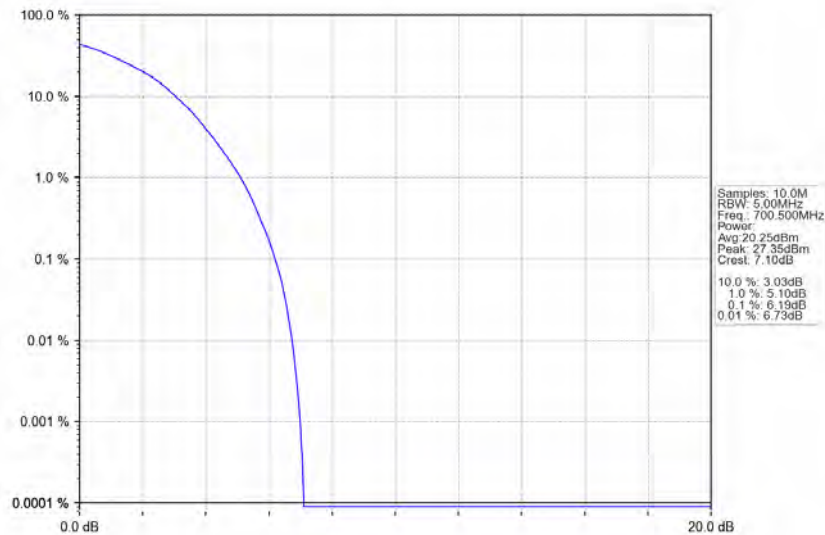
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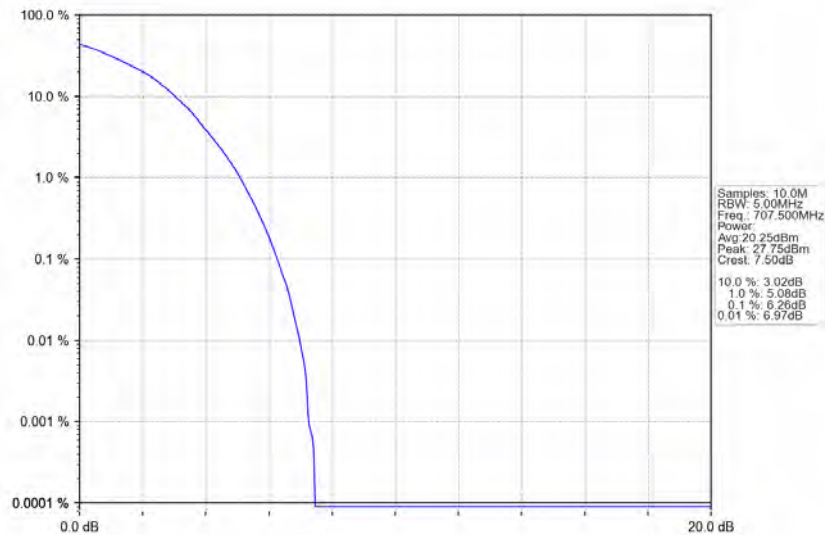
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5.3 B12_5MHz

5.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.23	<=13	Pass
	707.5	25	0	5.33	<=13	Pass
	713.5	25	0	5.02	<=13	Pass
16QAM	701.5	25	0	5.94	<=13	Pass
	707.5	25	0	6.05	<=13	Pass
	713.5	25	0	5.77	<=13	Pass
64QAM	701.5	25	0	6.29	<=13	Pass
	707.5	25	0	6.37	<=13	Pass
	713.5	25	0	6.19	<=13	Pass



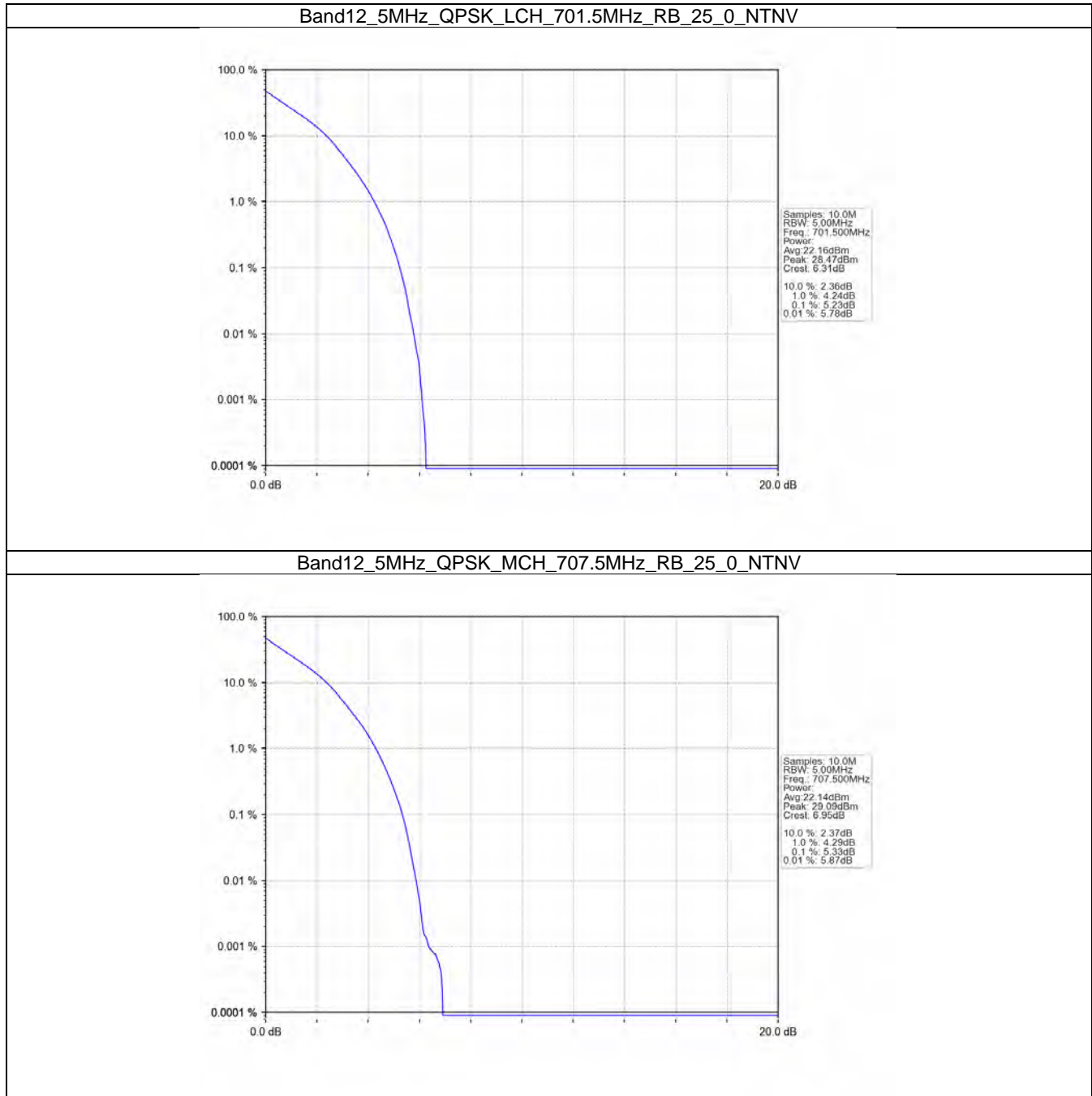
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5.3.2 Test Graph



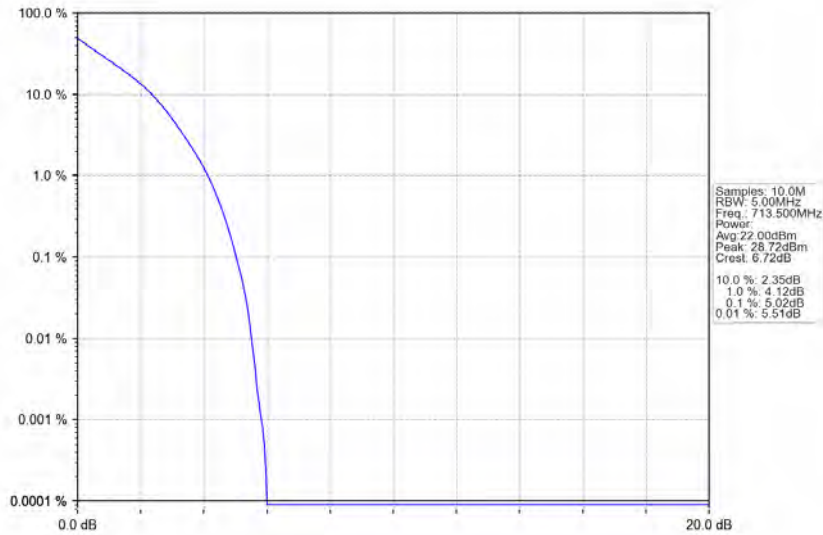
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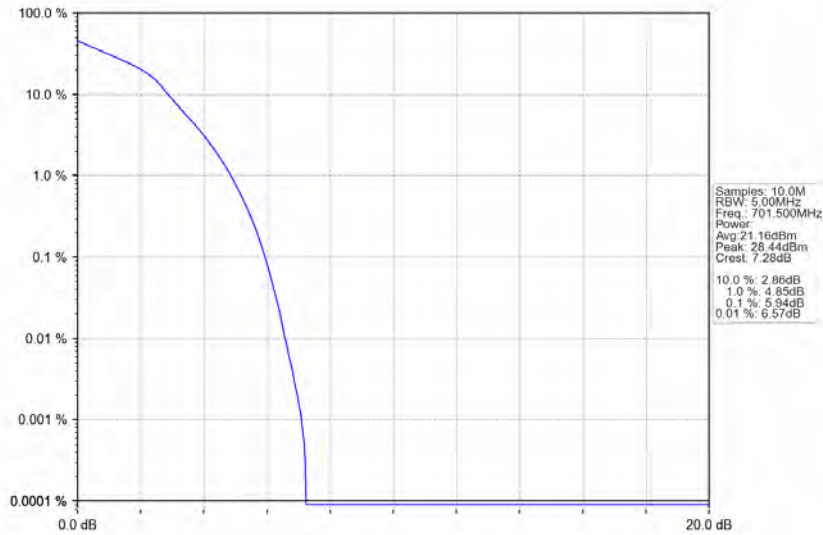
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Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



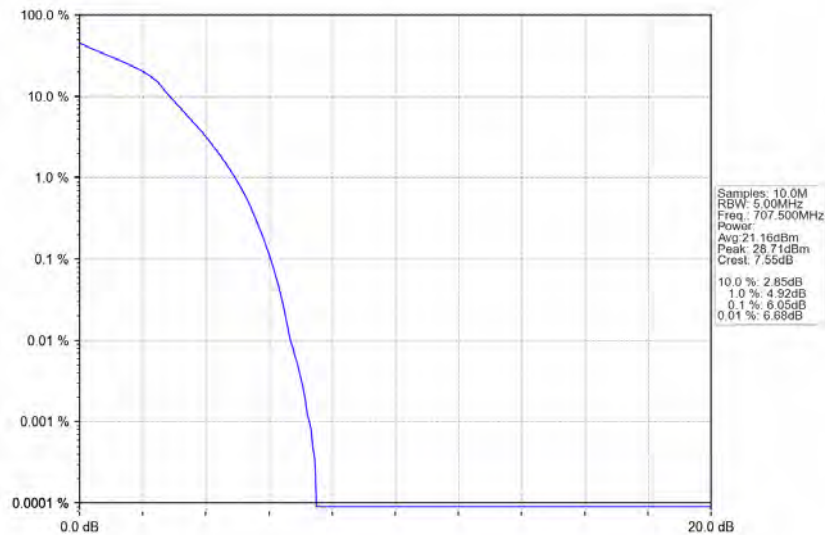
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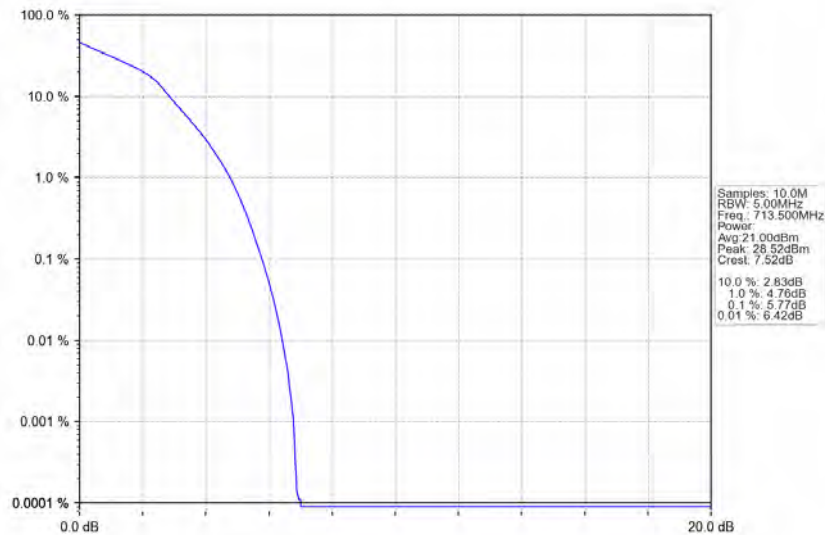
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Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



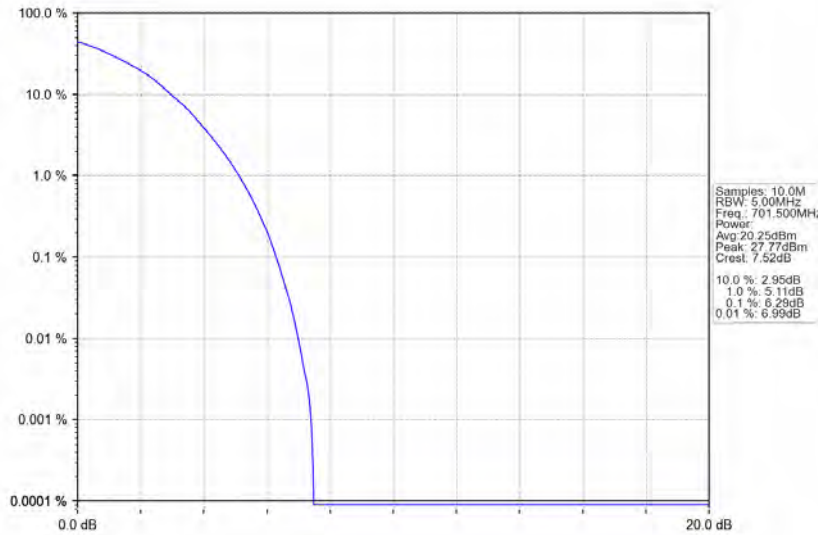
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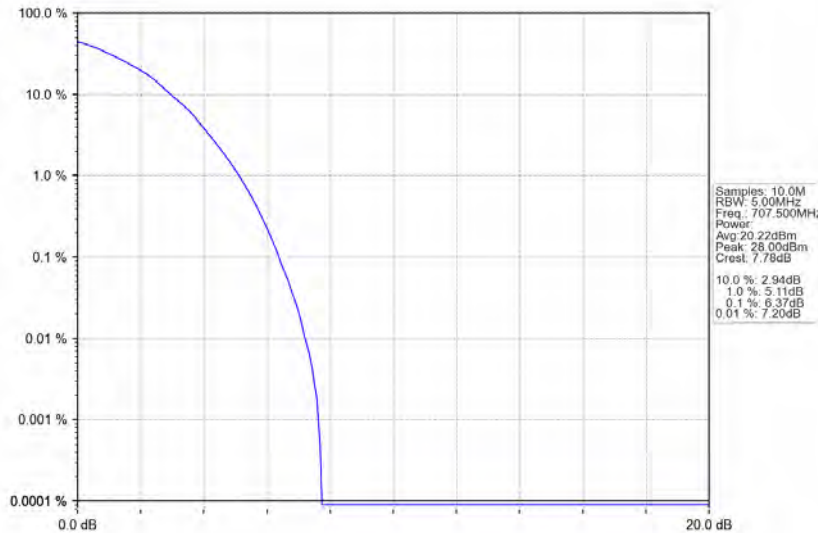
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Band12_5MHz_64QAM_LCH_701.5MHz_RB_25_0_NTNV



Band12_5MHz_64QAM_MCH_707.5MHz_RB_25_0_NTNV

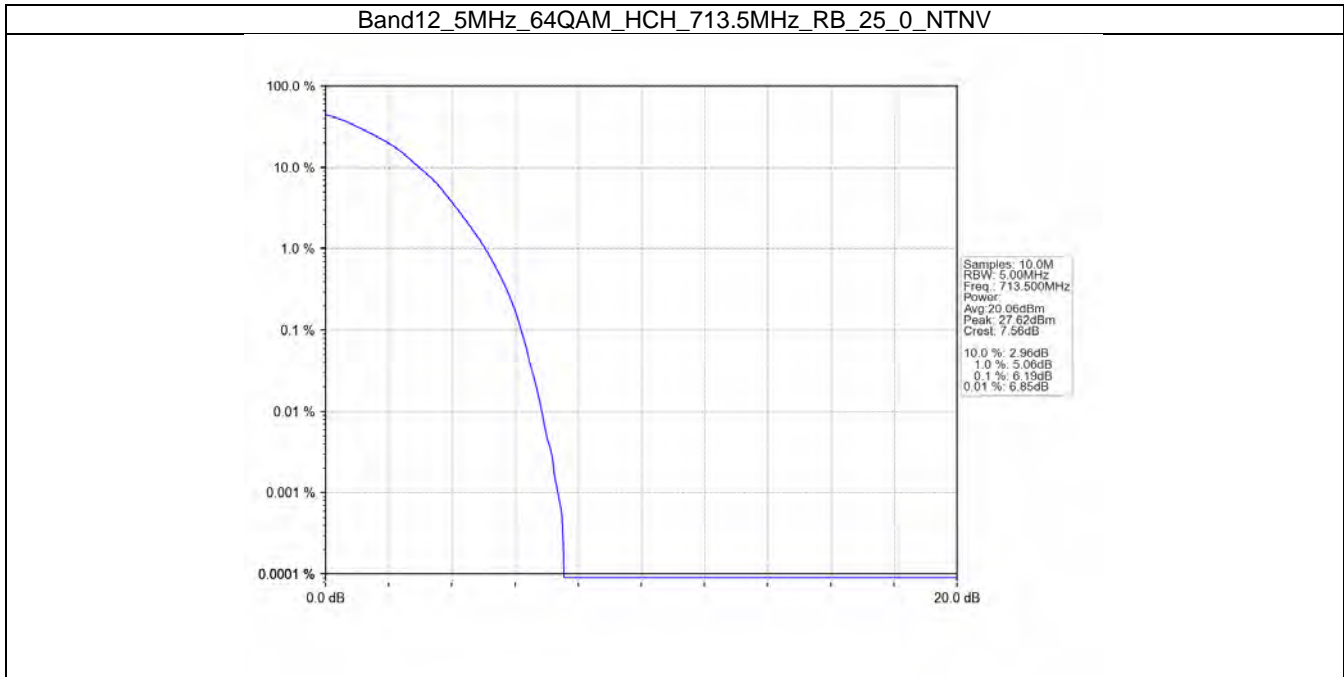


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5.4 B12_10MHz

5.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.38	<=13	Pass
	707.5	50	0	5.45	<=13	Pass
	711	50	0	5.41	<=13	Pass
16QAM	704	50	0	6.46	<=13	Pass
	707.5	50	0	6.42	<=13	Pass
	711	50	0	6.48	<=13	Pass
64QAM	704	50	0	6.69	<=13	Pass
	707.5	50	0	6.65	<=13	Pass
	711	50	0	6.70	<=13	Pass

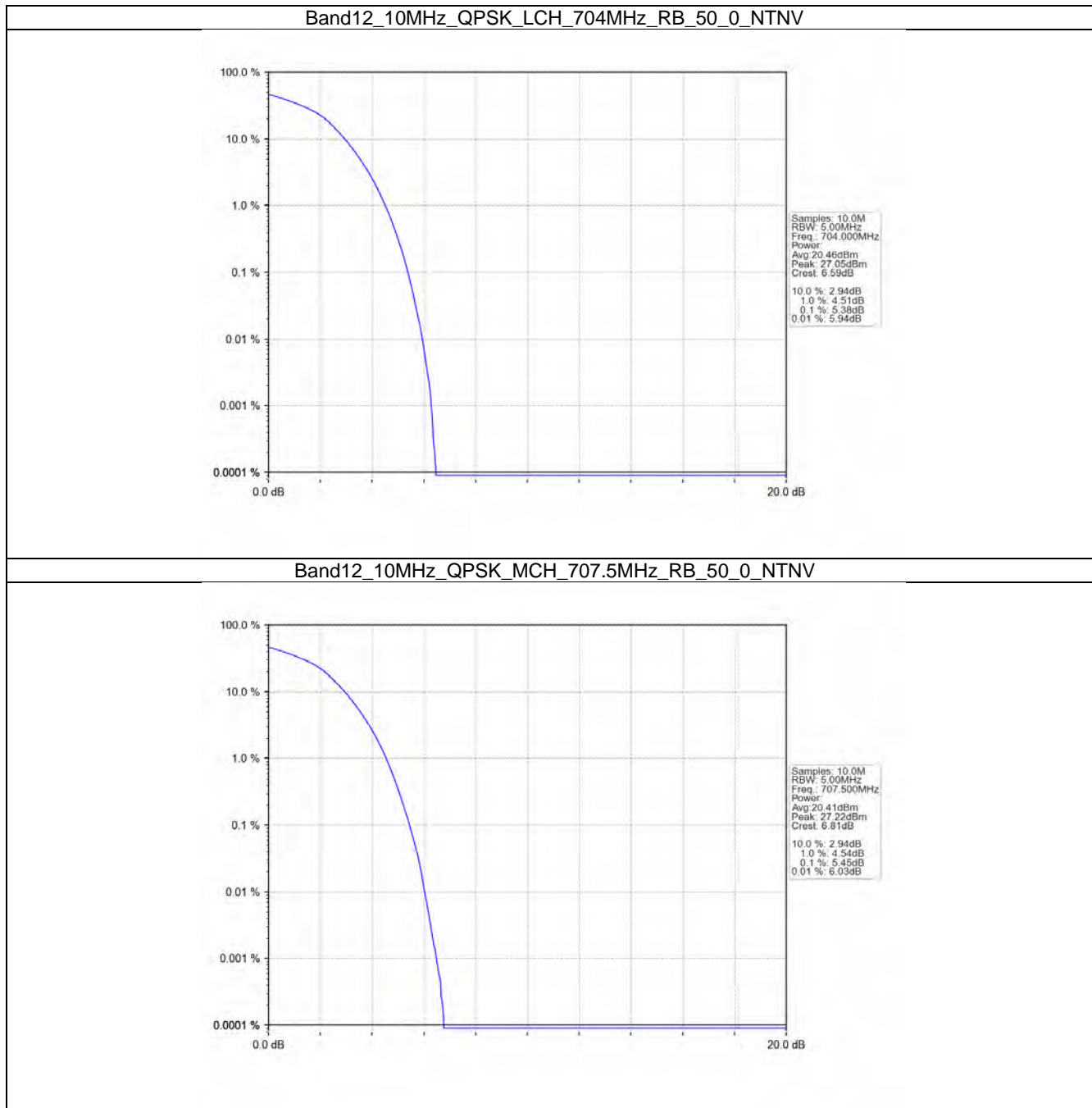


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5.4.2 Test Graph



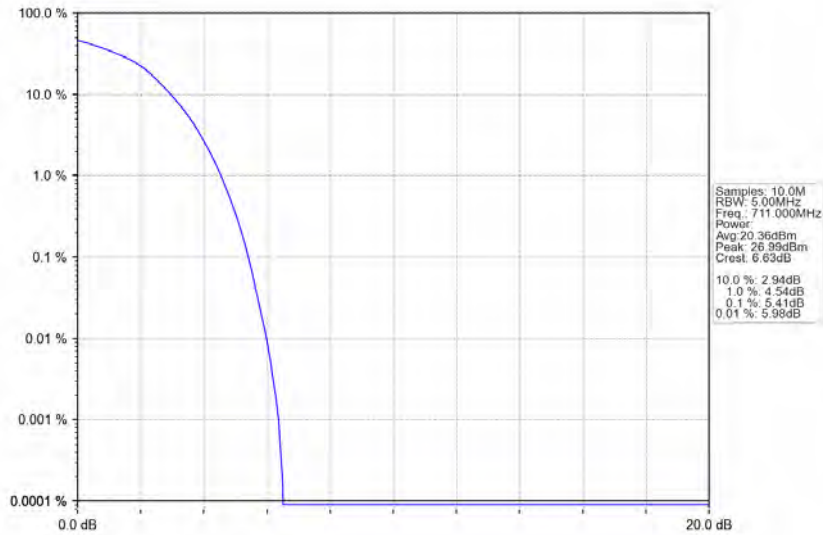
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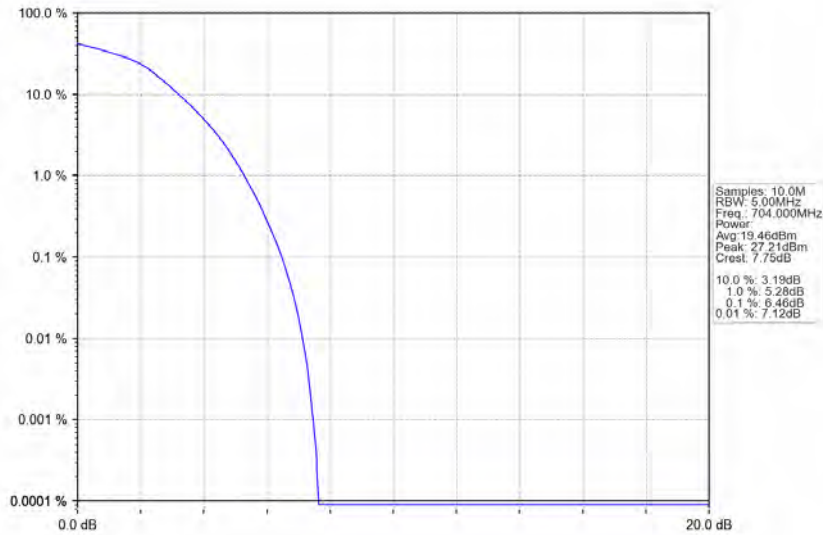
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Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV

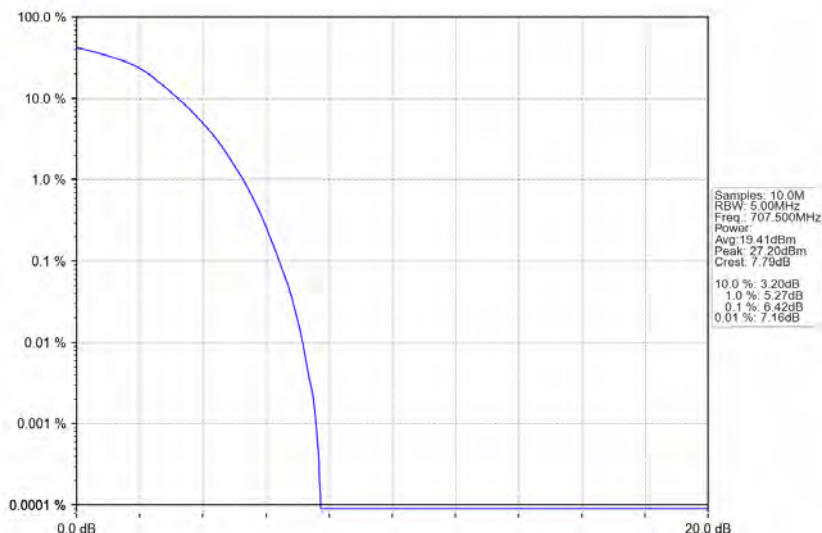


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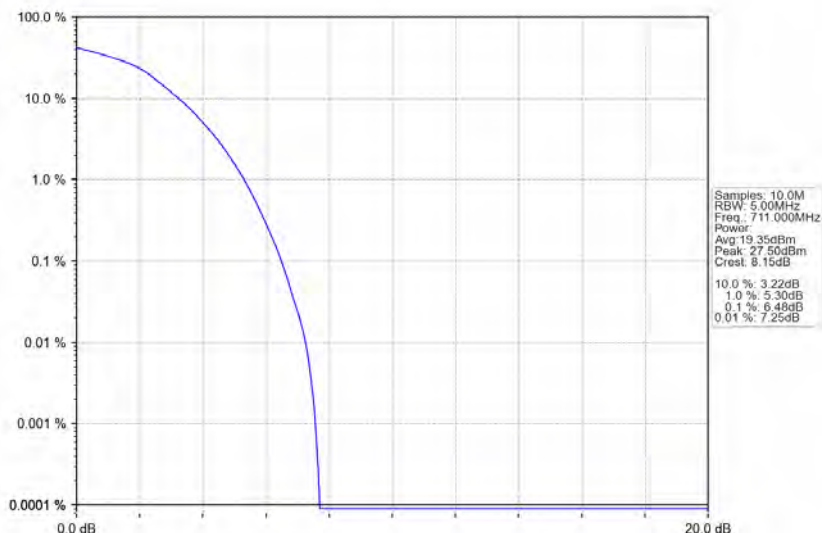
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Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



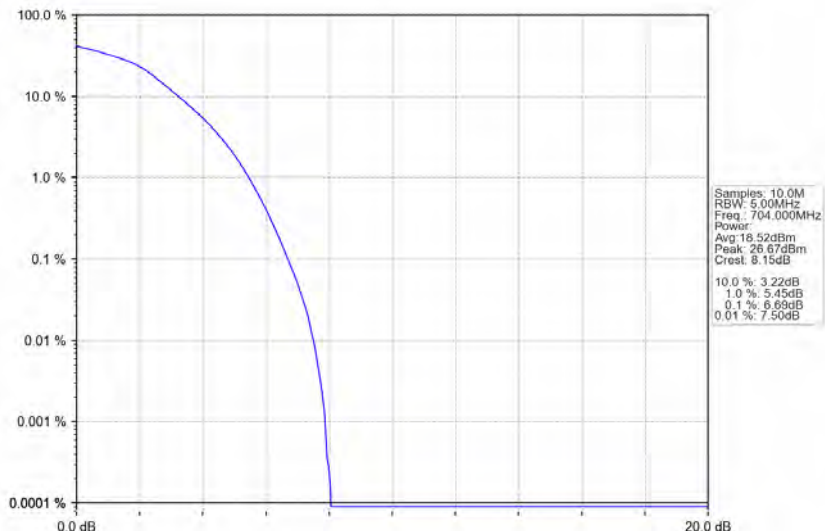
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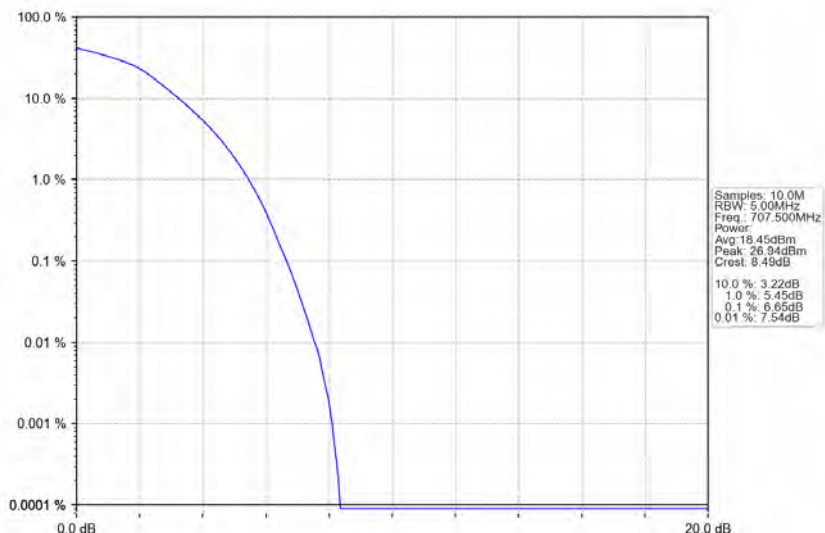
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Band12_10MHz_64QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV

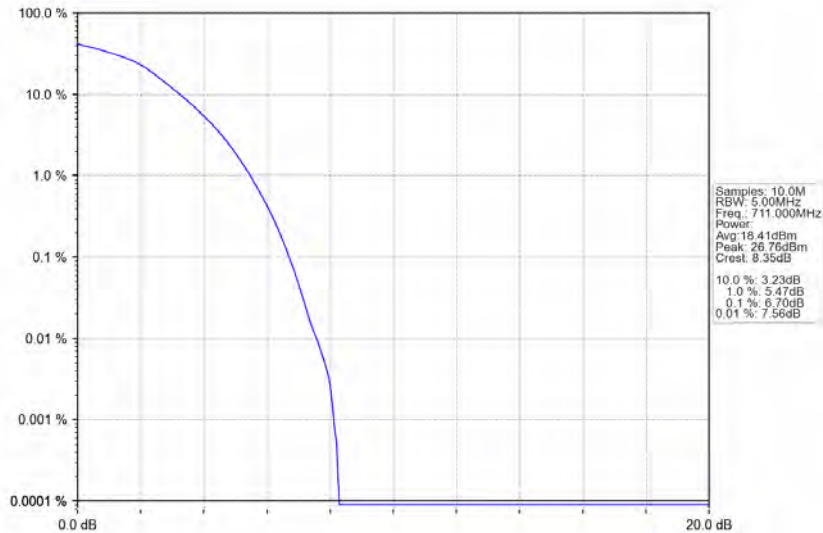


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Band12_10MHz_64QAM_HCH_711MHz_RB_50_0_NTV



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6. Spurious Emission

6.1 B12_1.4MHz

6.1.1 Test Result

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

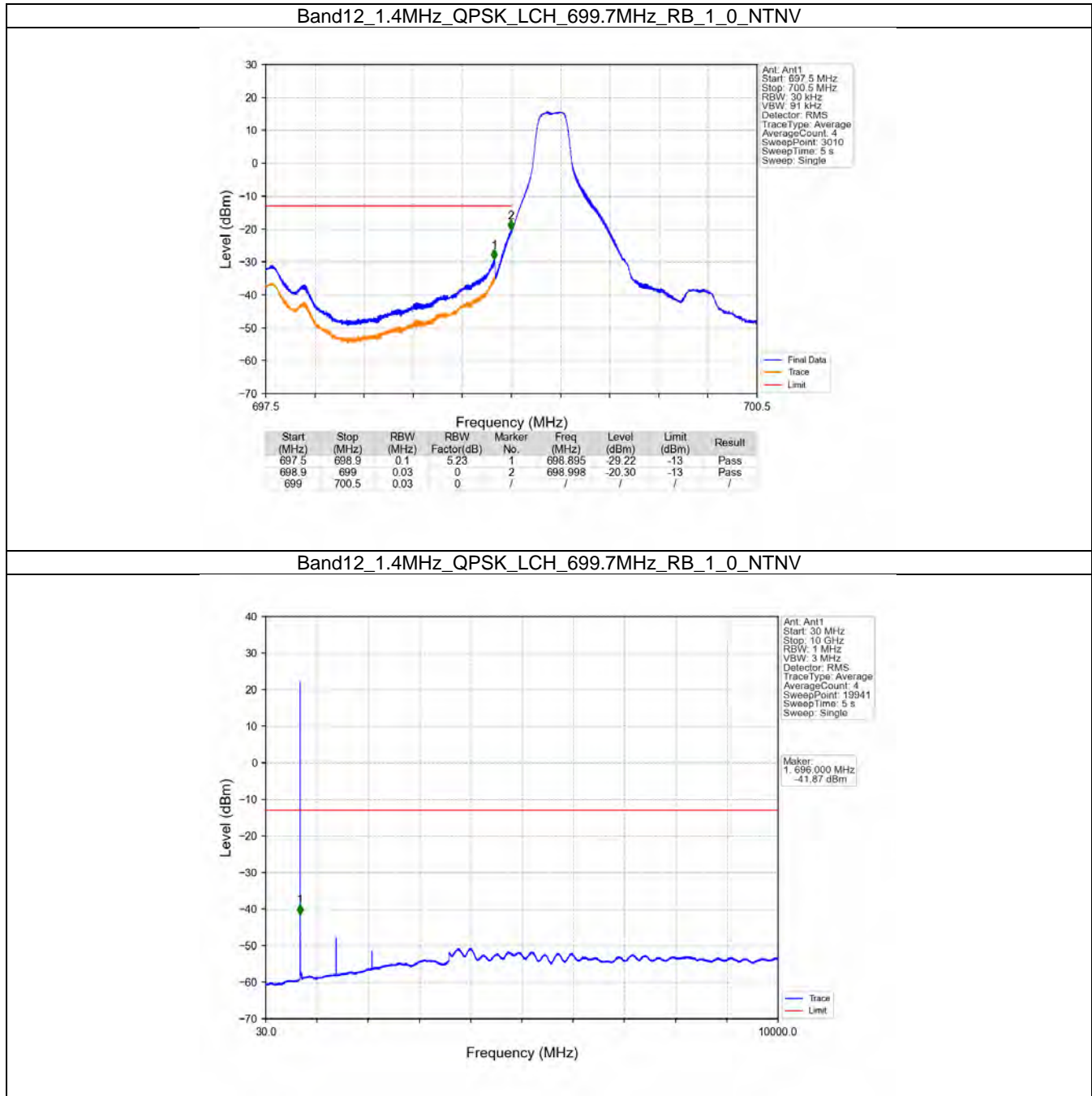


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6.1.2 Test Graph



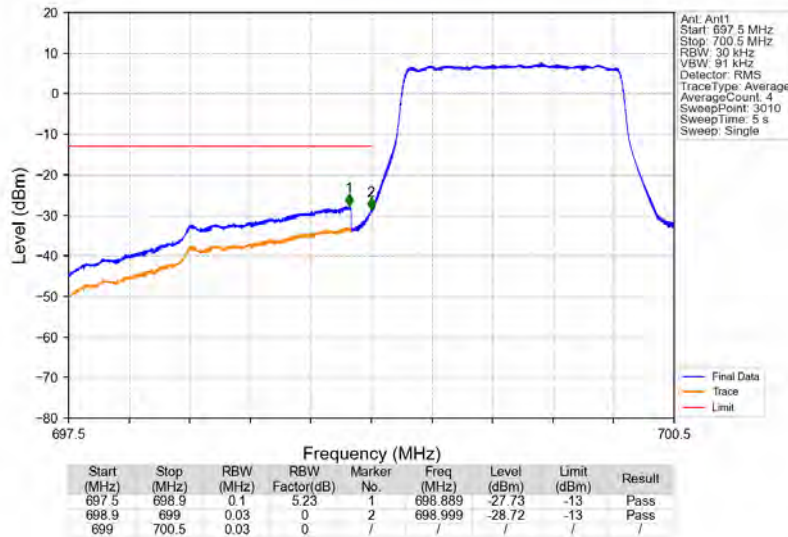
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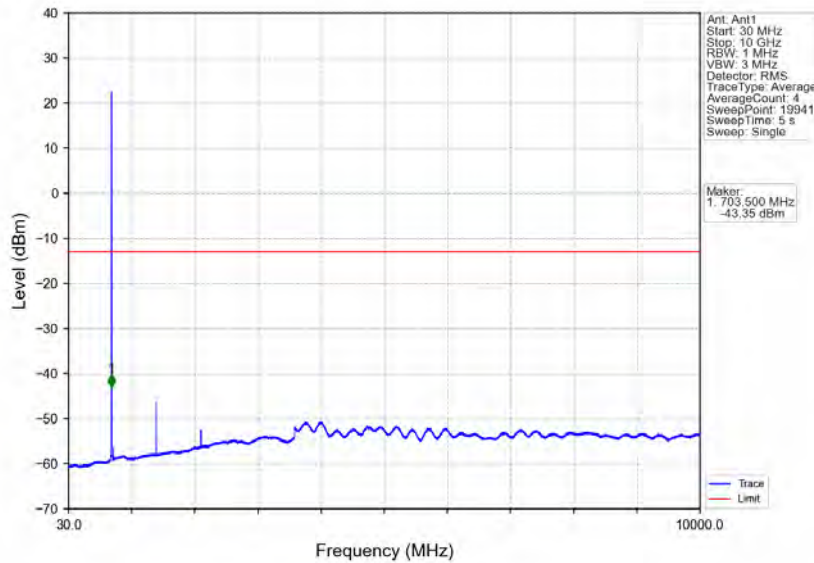
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Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTV



Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTV



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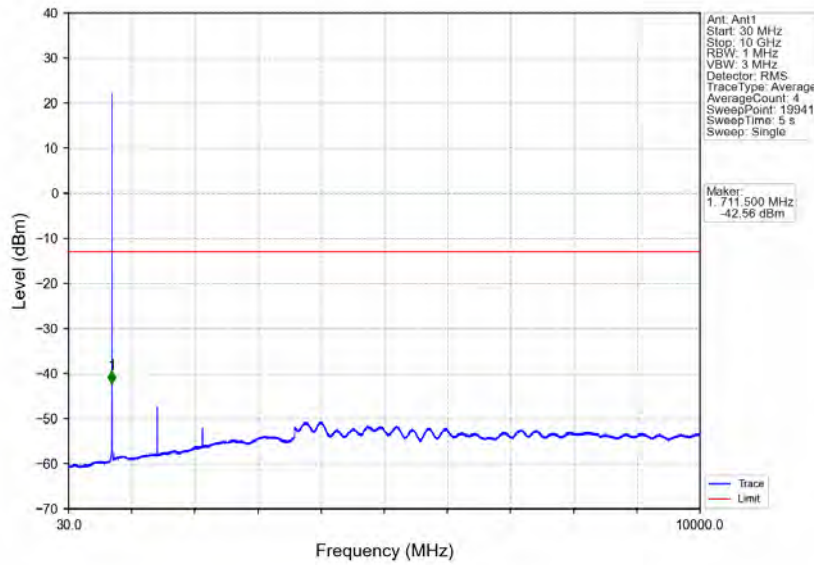
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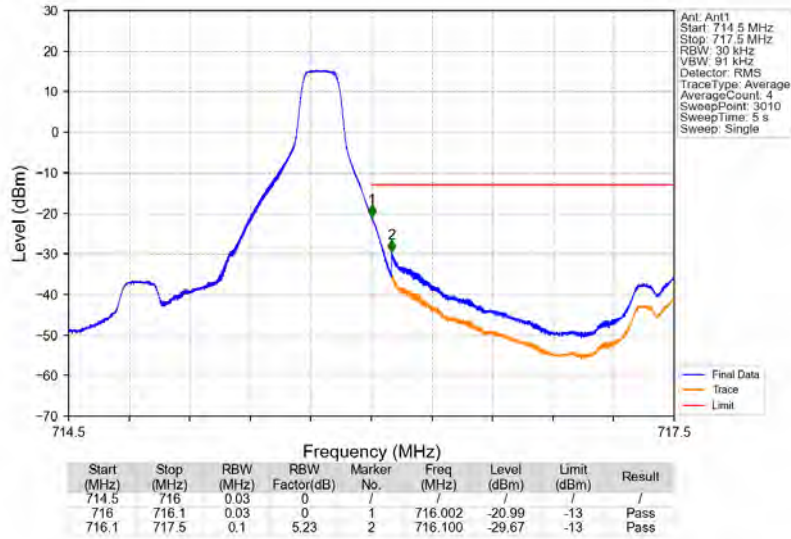
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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTV



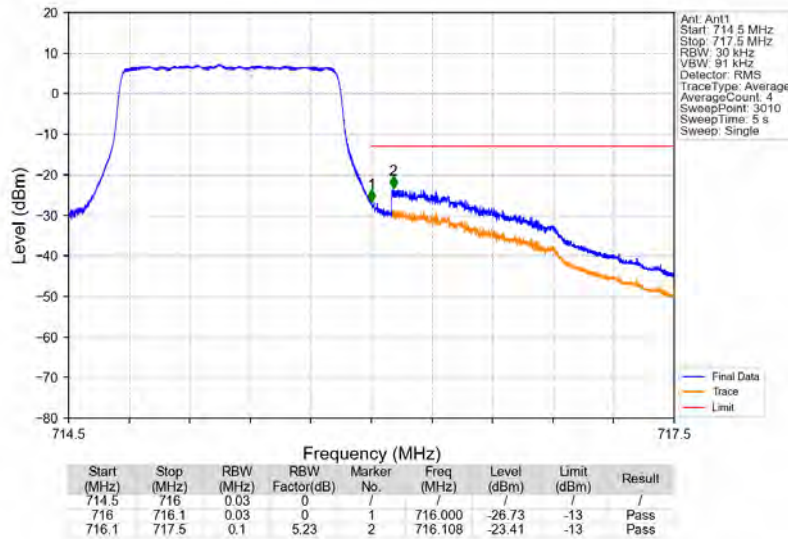
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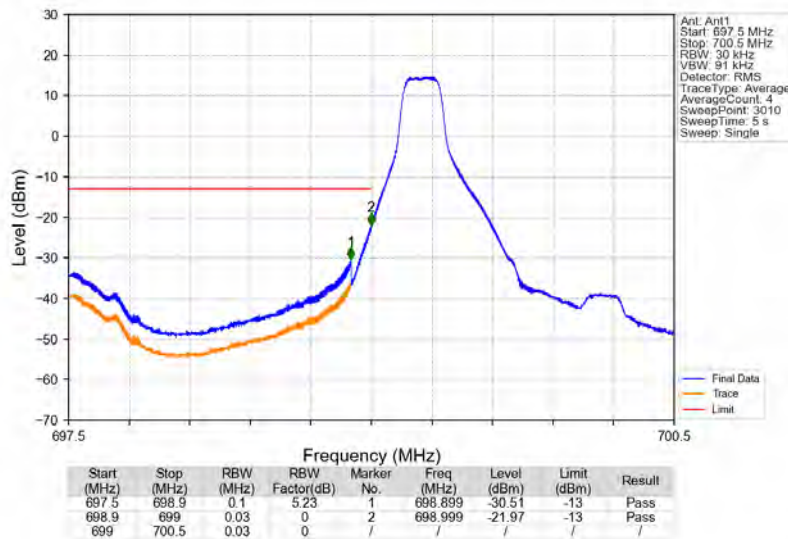
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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



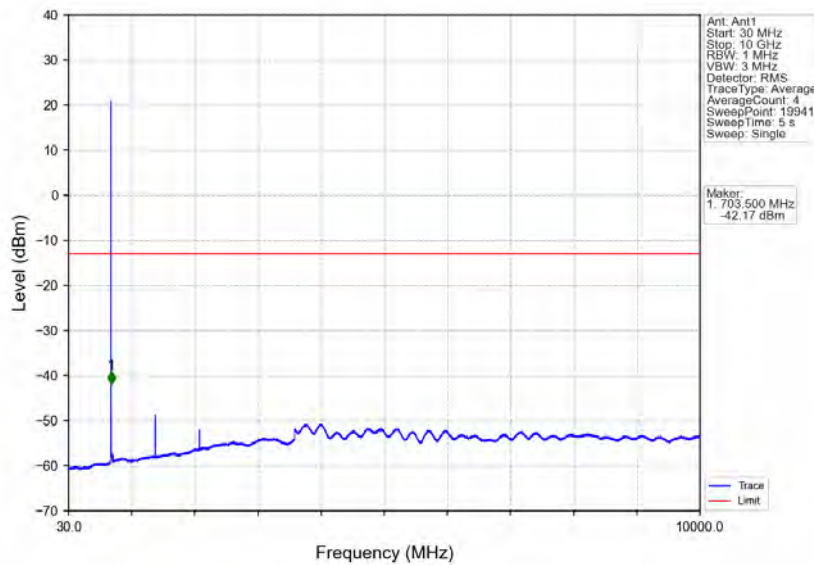
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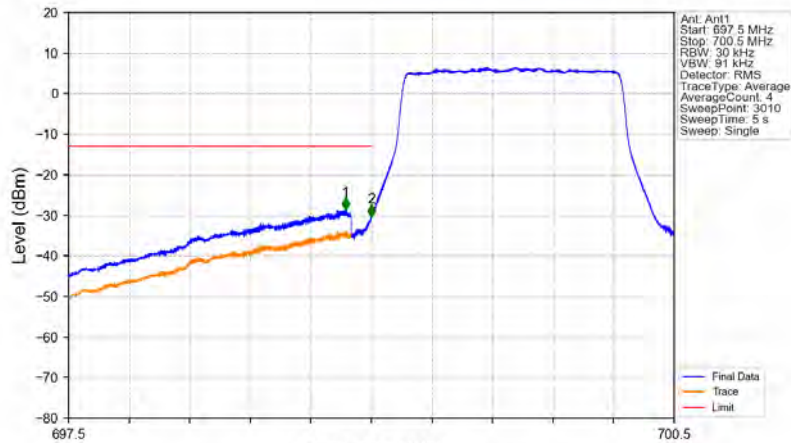
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Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor (dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	5.23	1	698.871	-28.62	-13	Pass
698.9	699	0.03	0	2	699.000	-30.37	-13	Pass
699	700.5	0.03	0	/	/	/	/	/



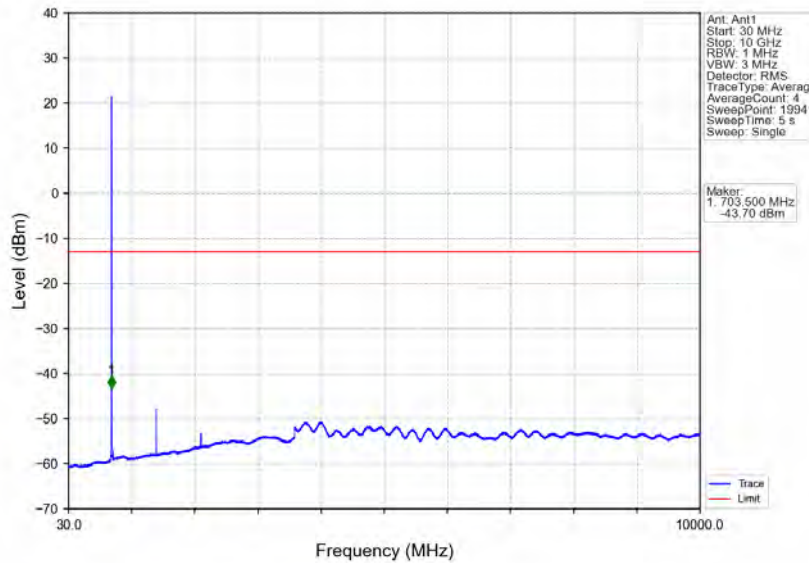
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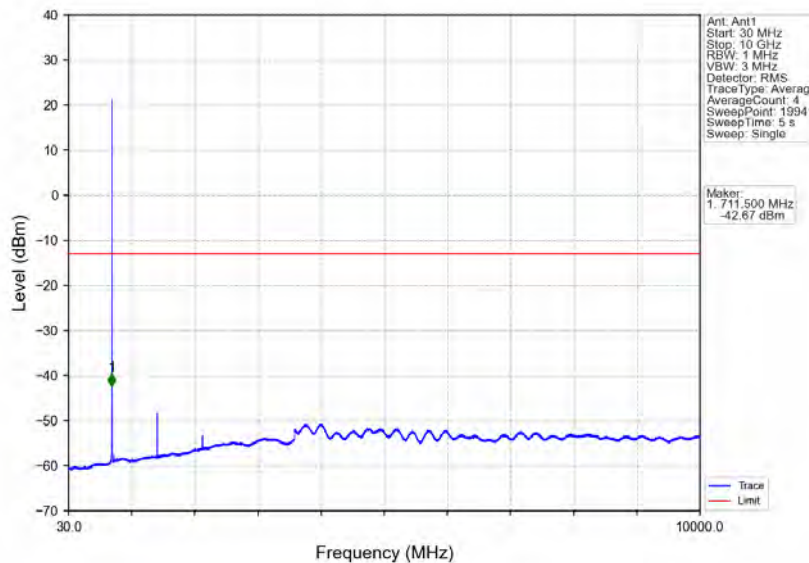
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Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_0_NTNV



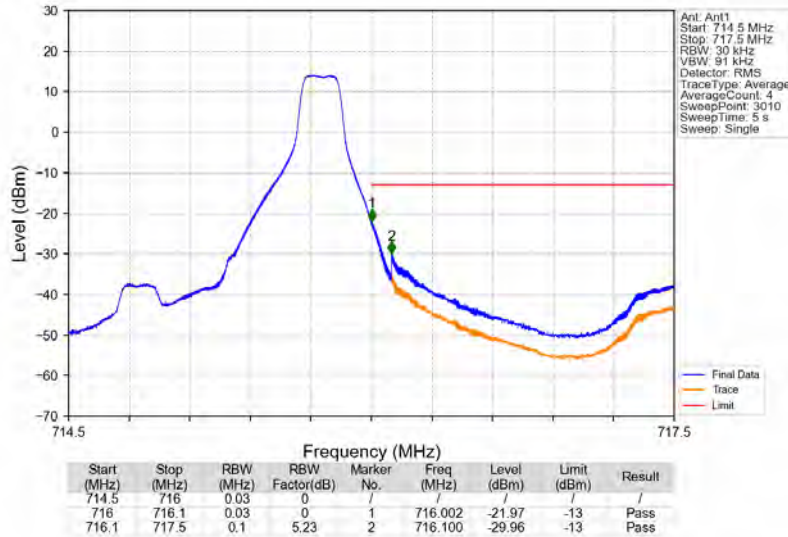
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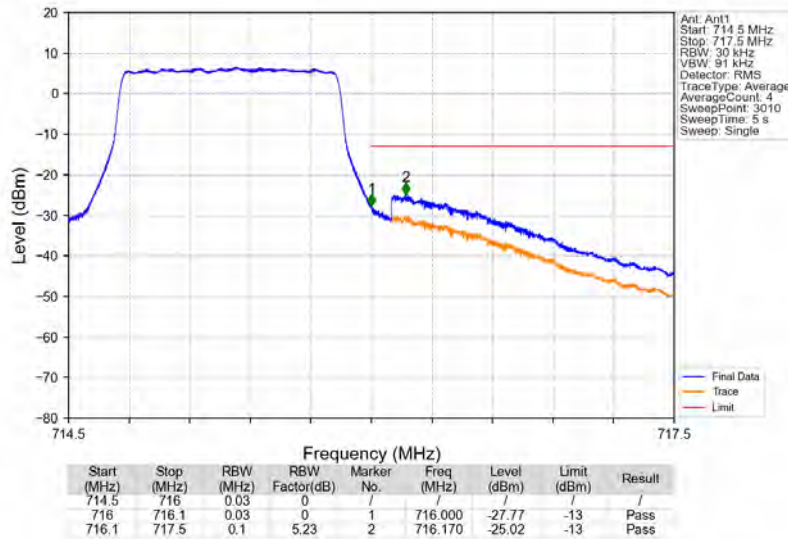
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Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



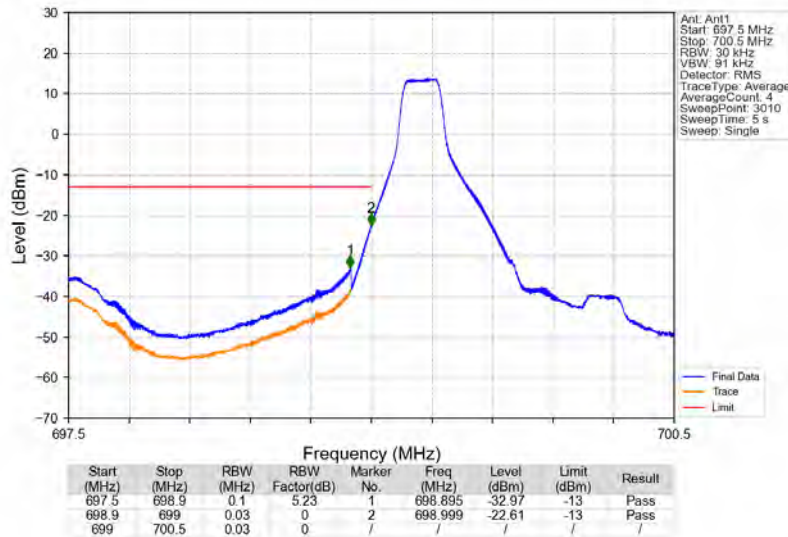
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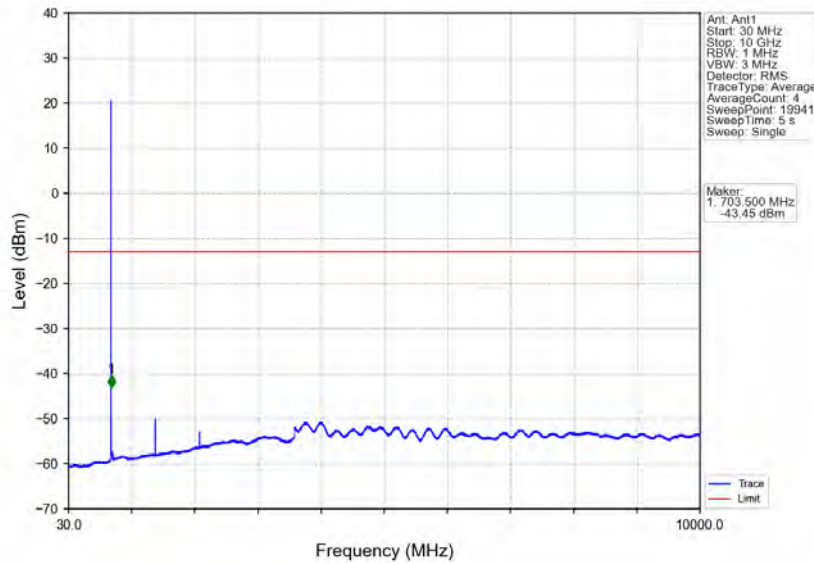
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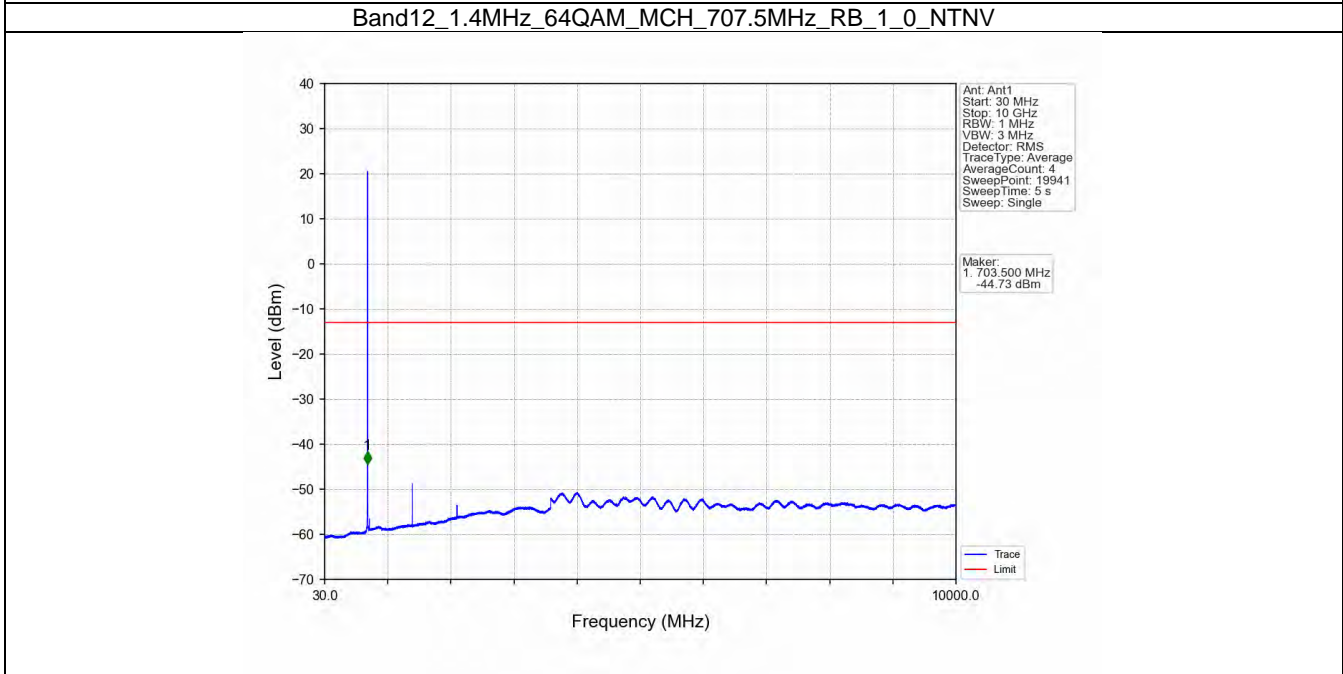
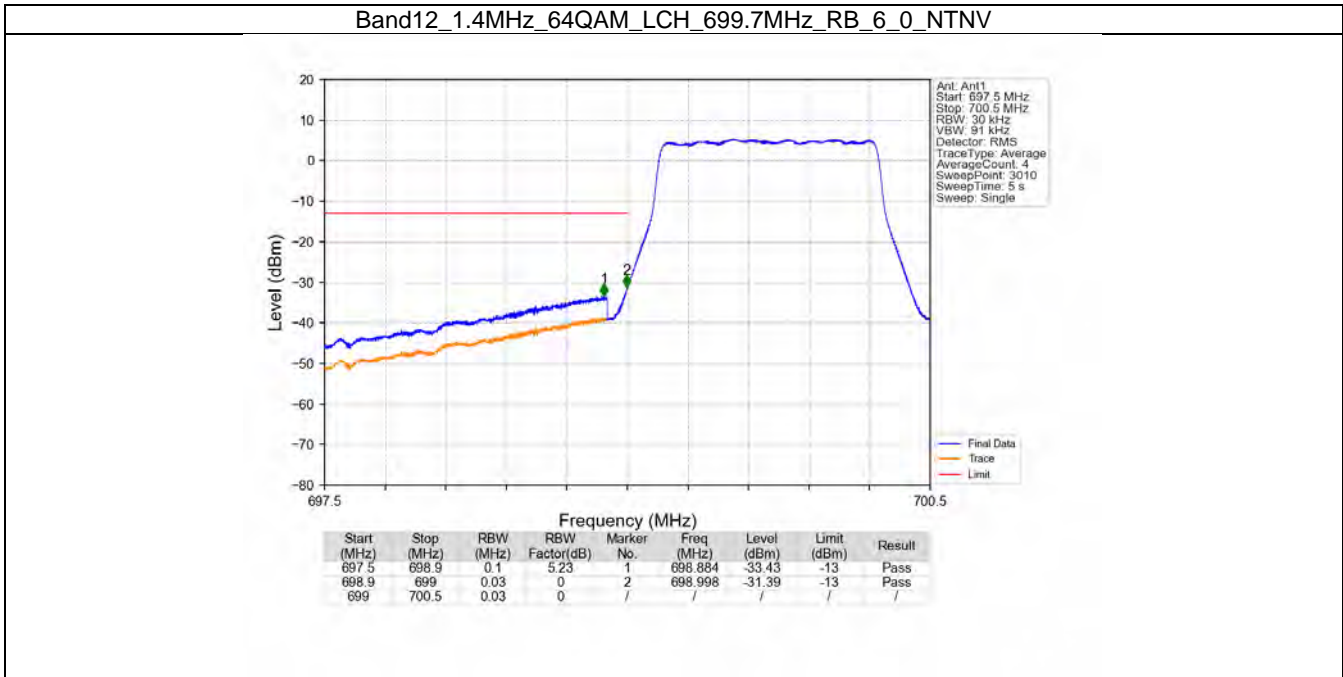
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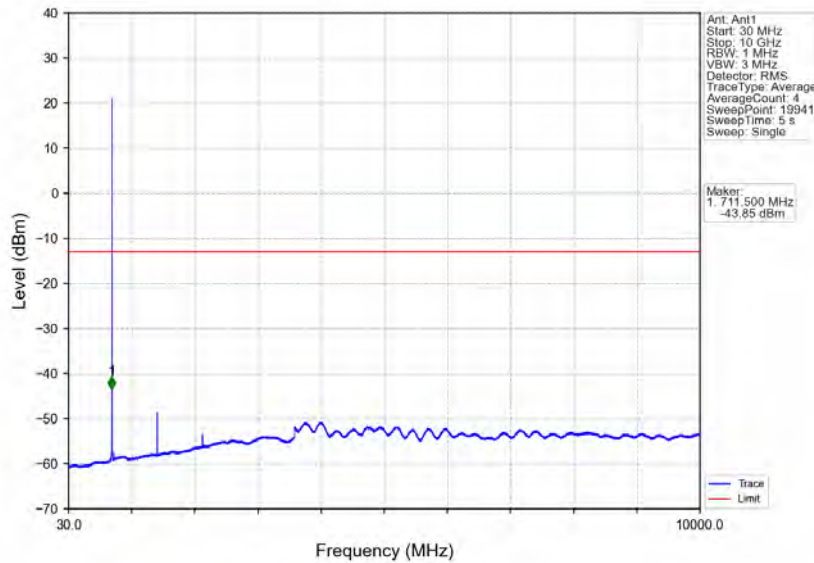
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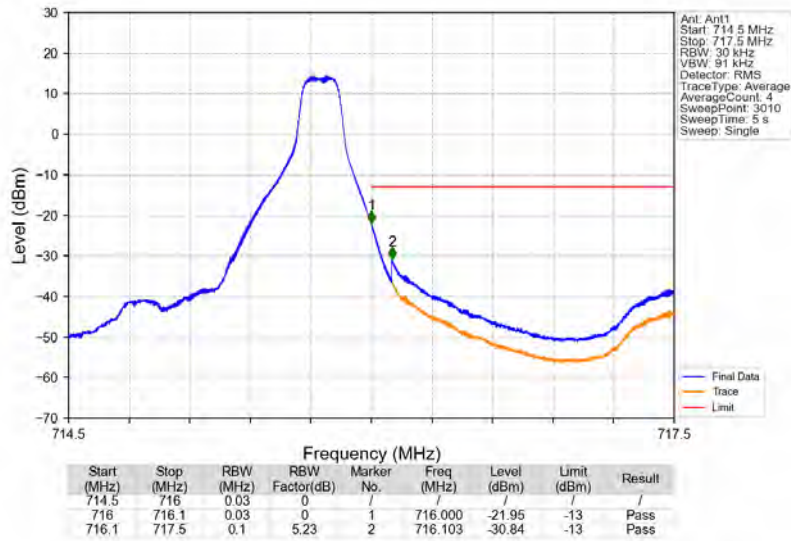
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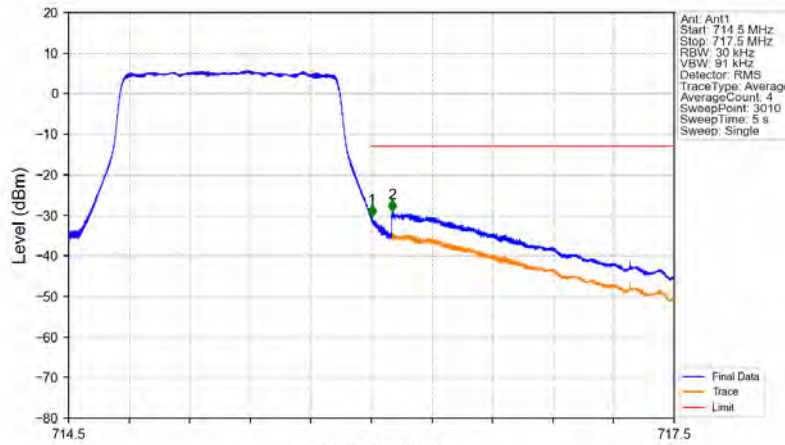
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Band12_1.4MHz_64QAM_HCH_715.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.002	-30.46	-13	Pass
716.1	717.5	0.1	5.23	2	716.104	-29.22	-13	Pass



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6.2 B12_3MHz

6.2.1 Test Result

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

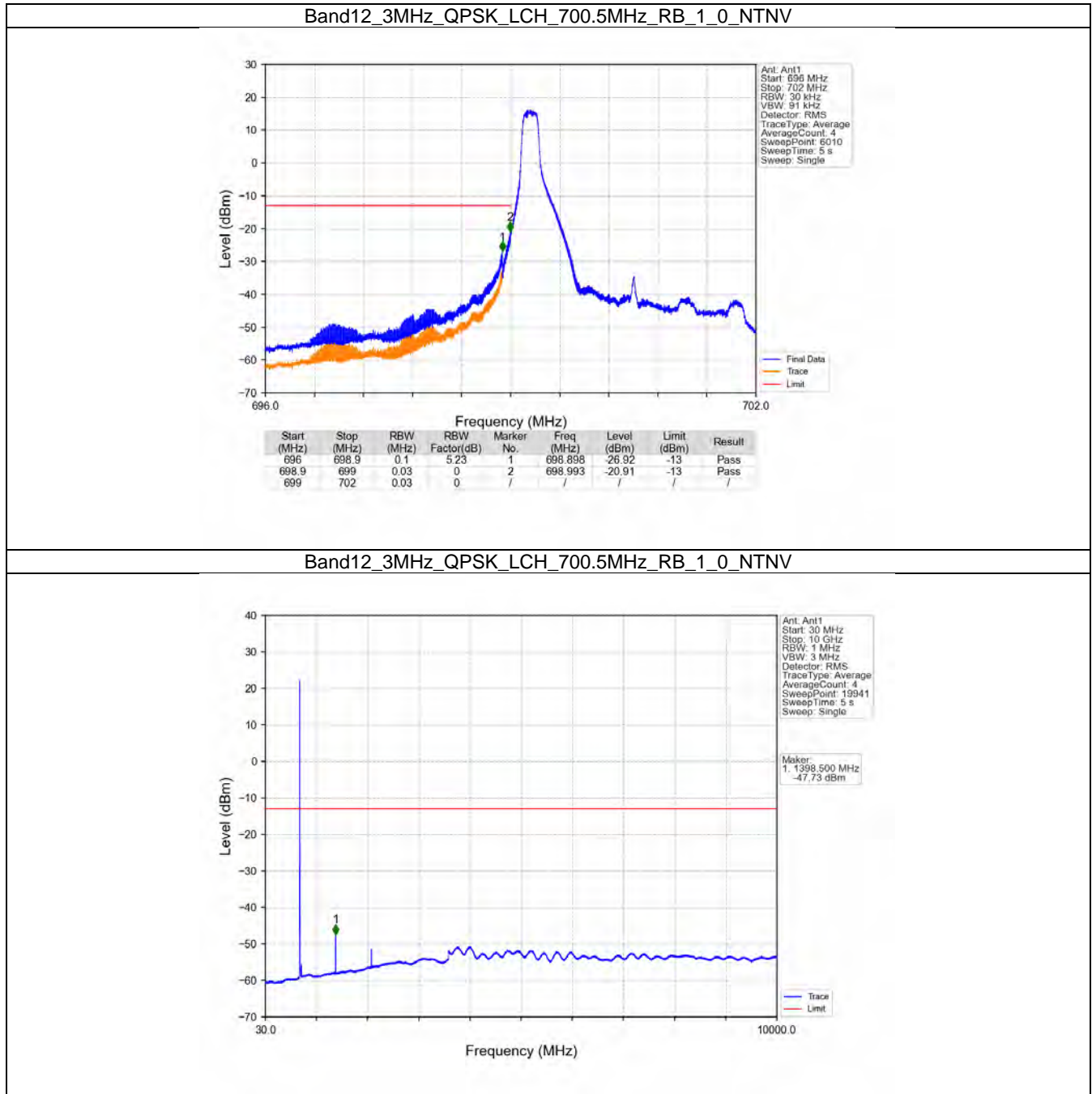


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6.2.2 Test Graph



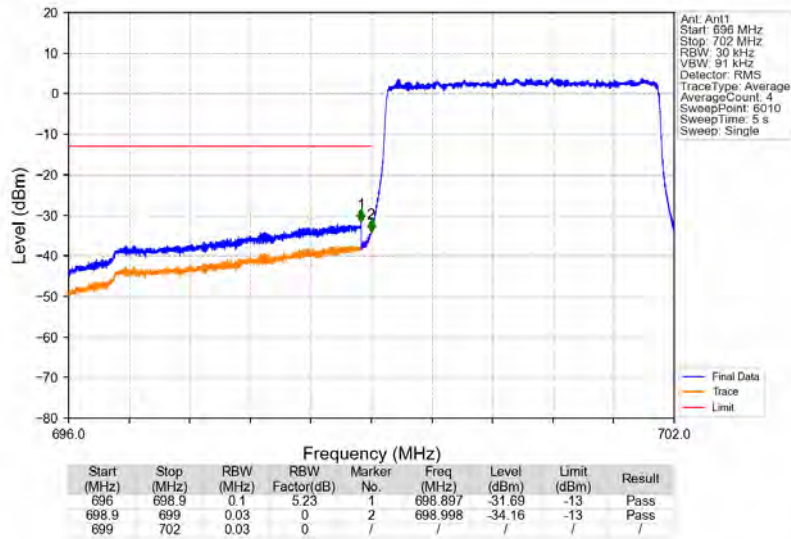
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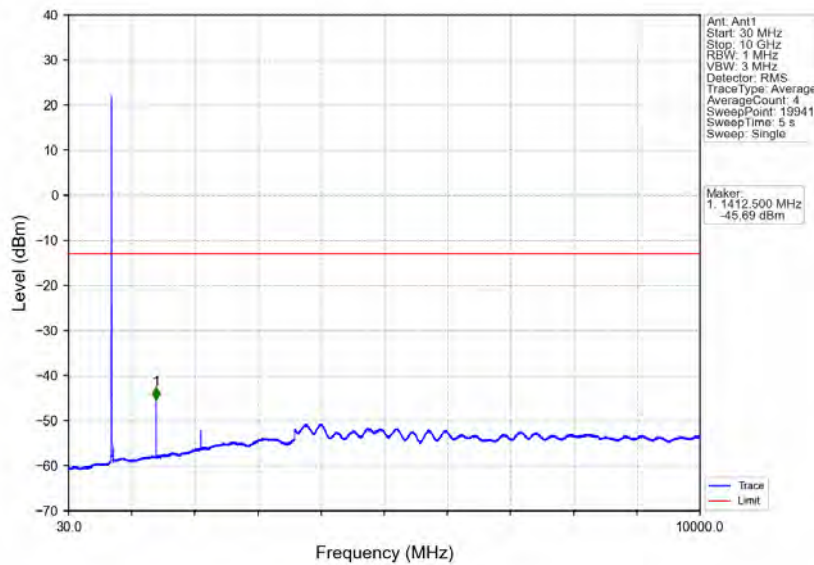
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Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



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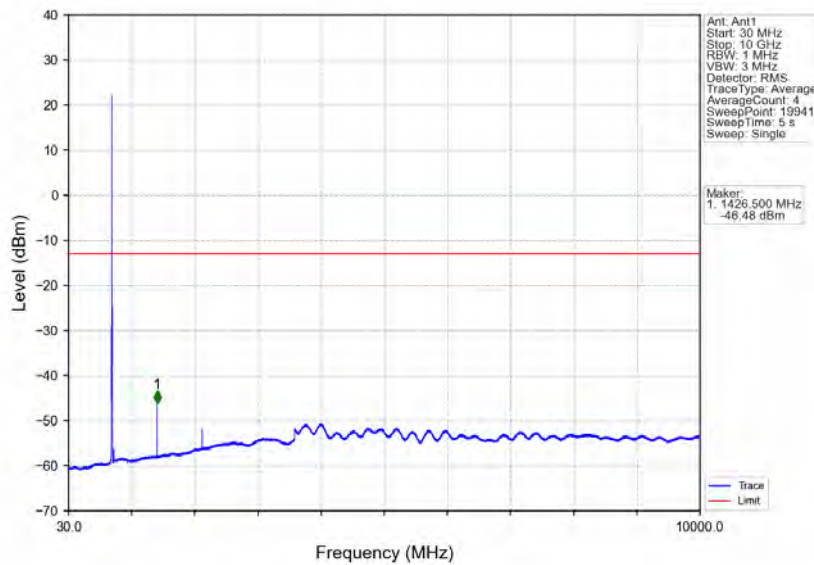
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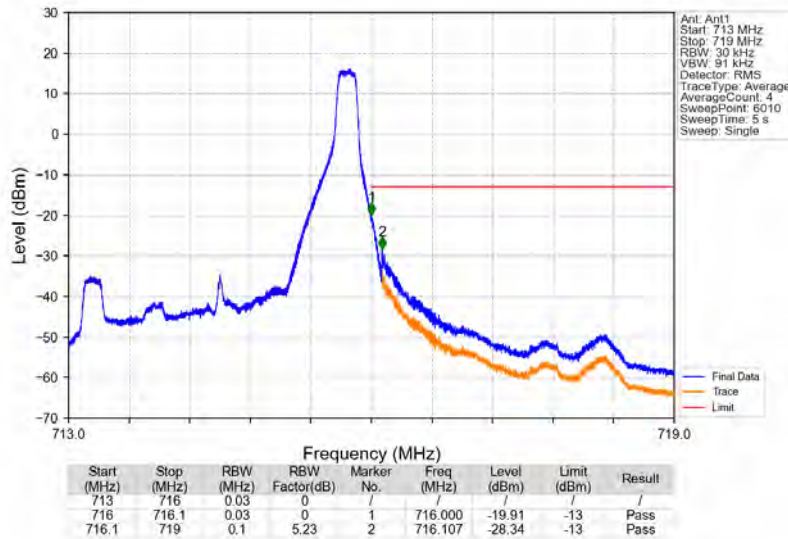
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Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



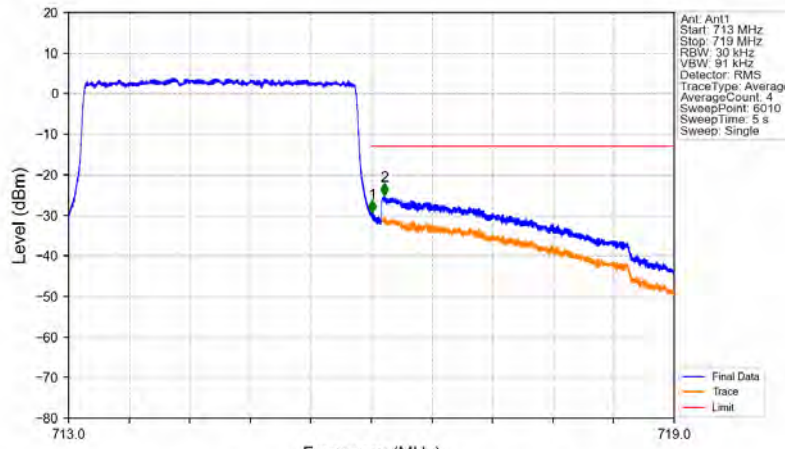
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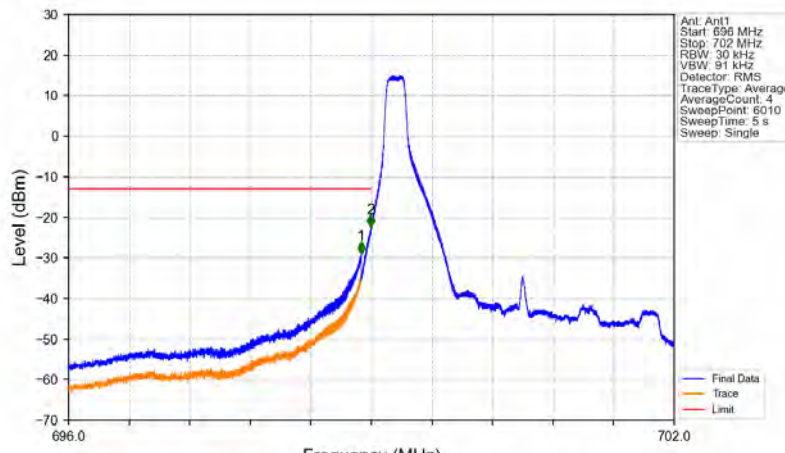
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Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.008	-29.29	-13	Pass
716.1	719	0.1	5.23	2	716.129	-25.08	-13	Pass

Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV



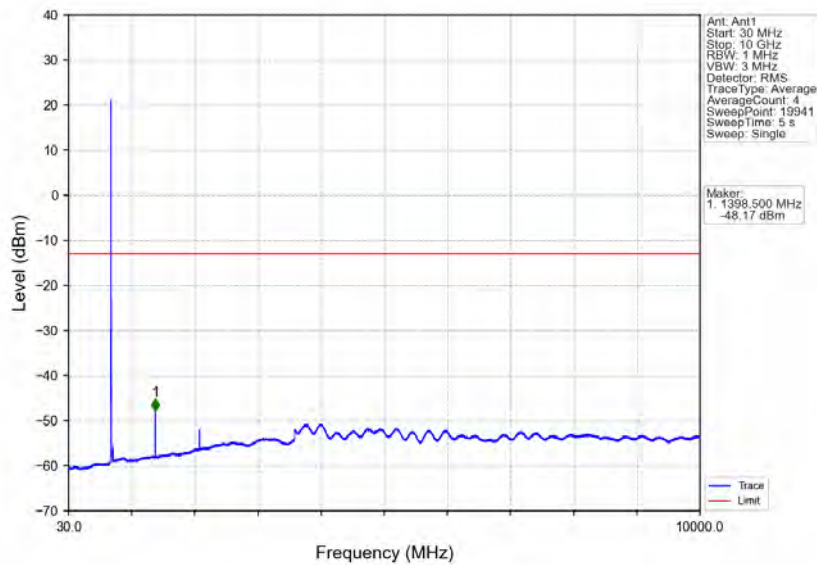
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	5.23	1	698.900	-29.00	-13	Pass
698.9	699	0.03	0	2	698.996	-22.33	-13	Pass
699	702	0.03	0	/	/	/	/	/



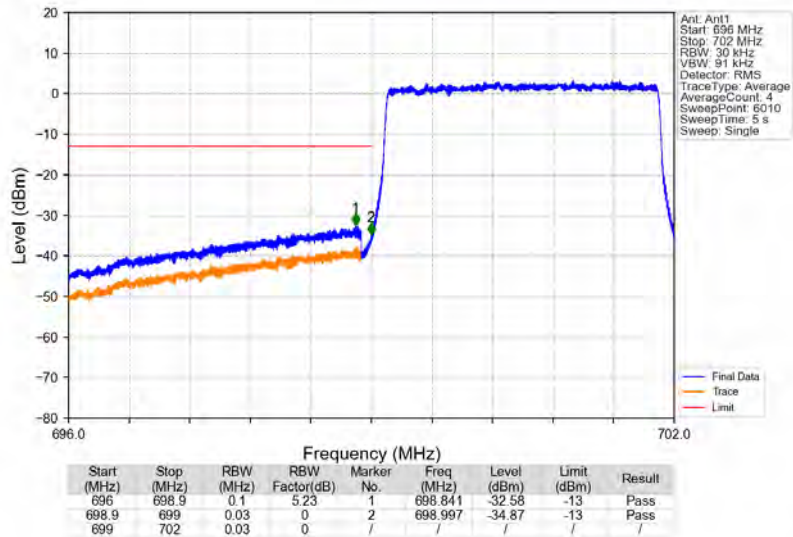
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Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



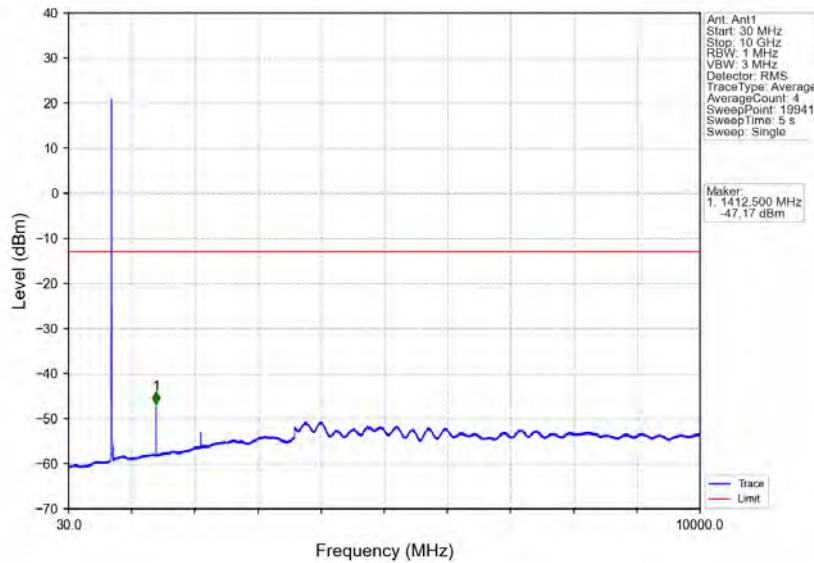
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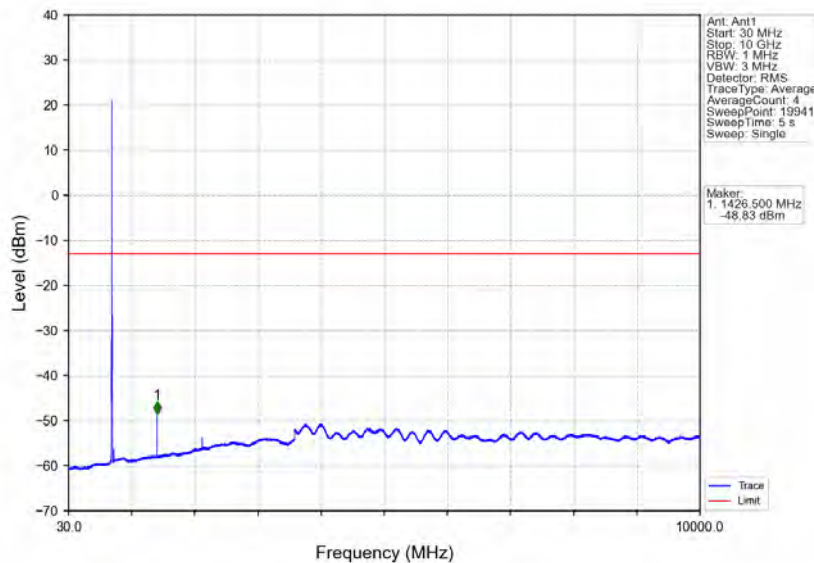
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Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV



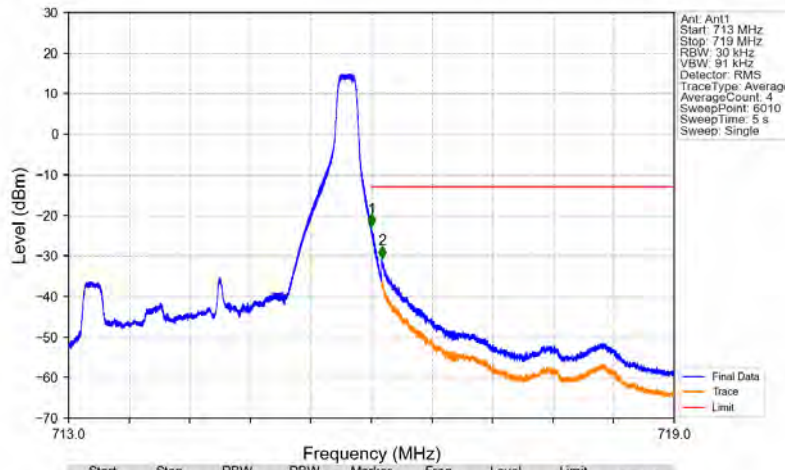
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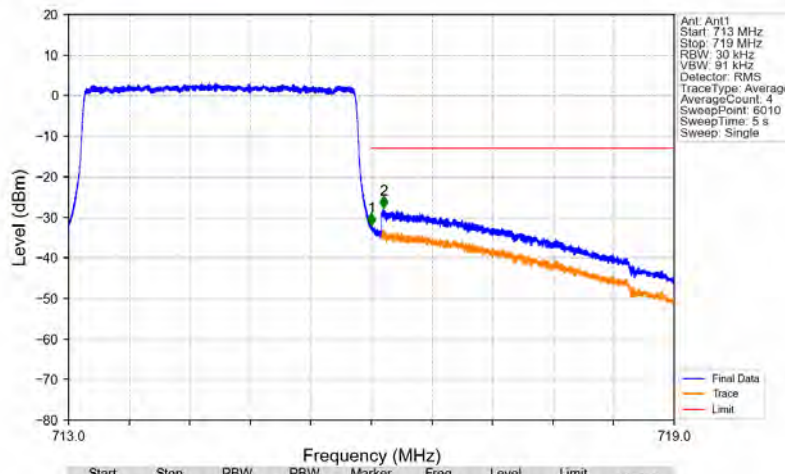
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Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



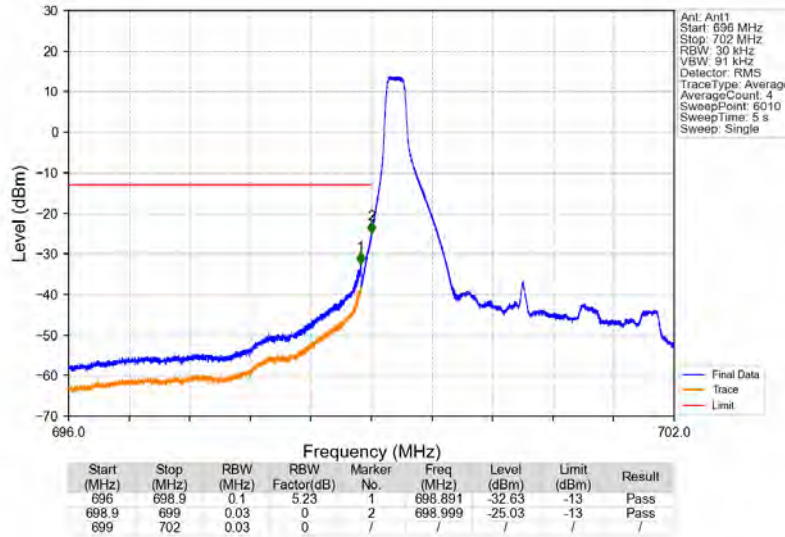
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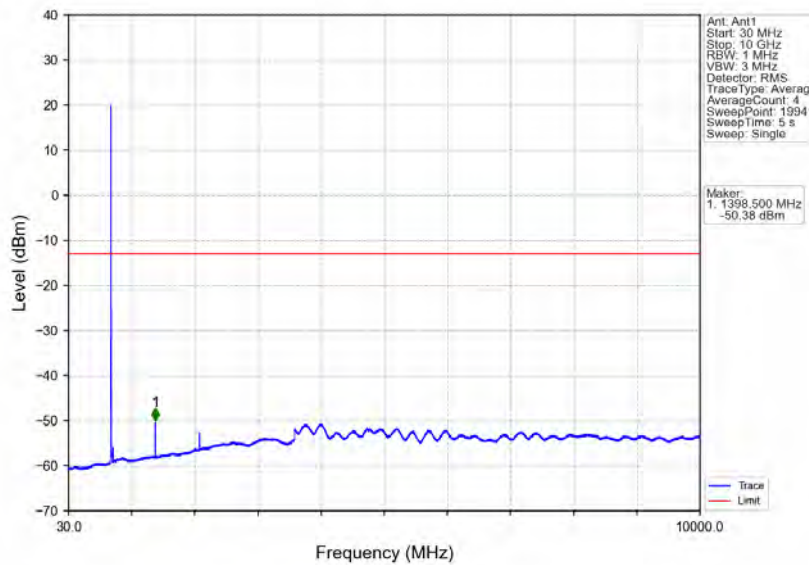
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Band12_3MHz_64QAM_LCH_700.5MHz_RB_1_0_NTNV



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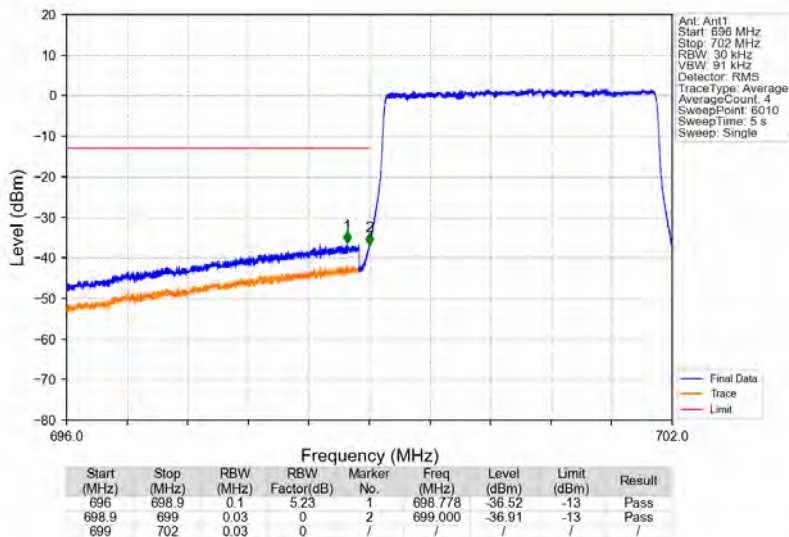
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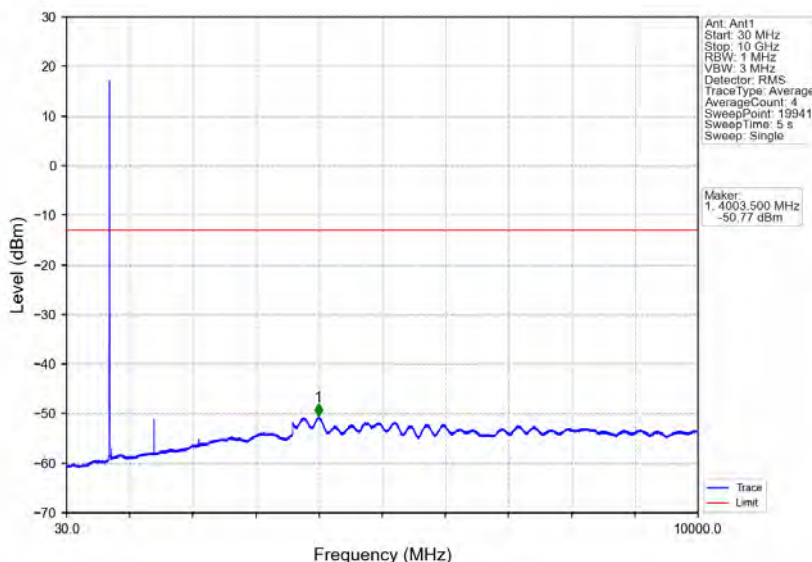
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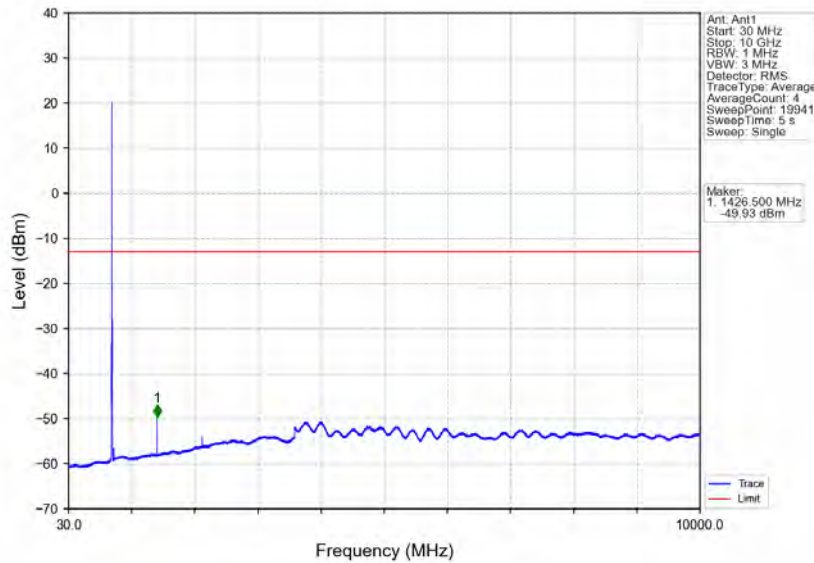
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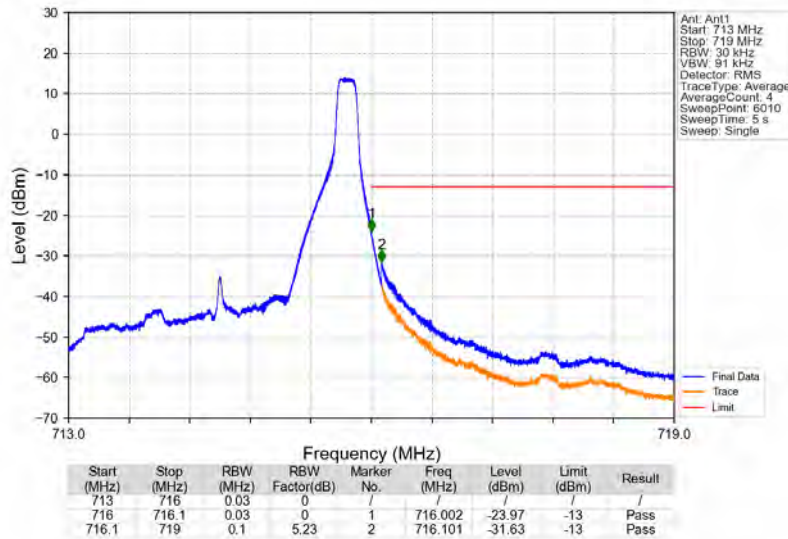
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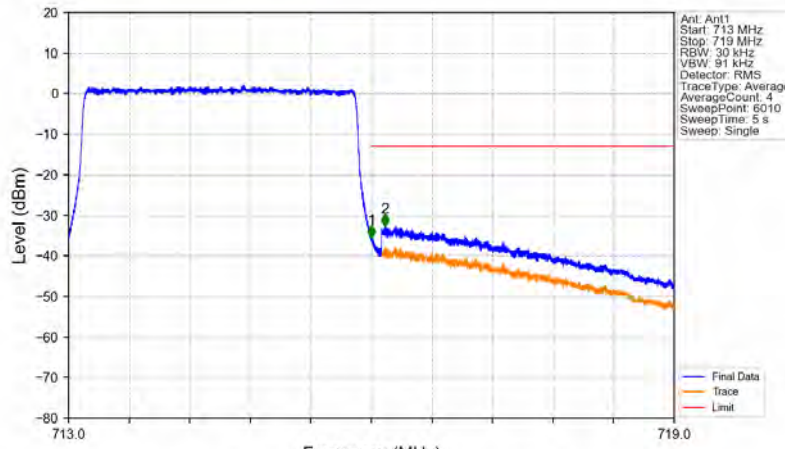
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Band12_3MHz_64QAM_HCH_714.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.002	-35.53	-13	Pass
716.1	719	0.1	5.23	2	716.135	-32.71	-13	Pass



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6.3 B12_5MHz

6.3.1 Test Result

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

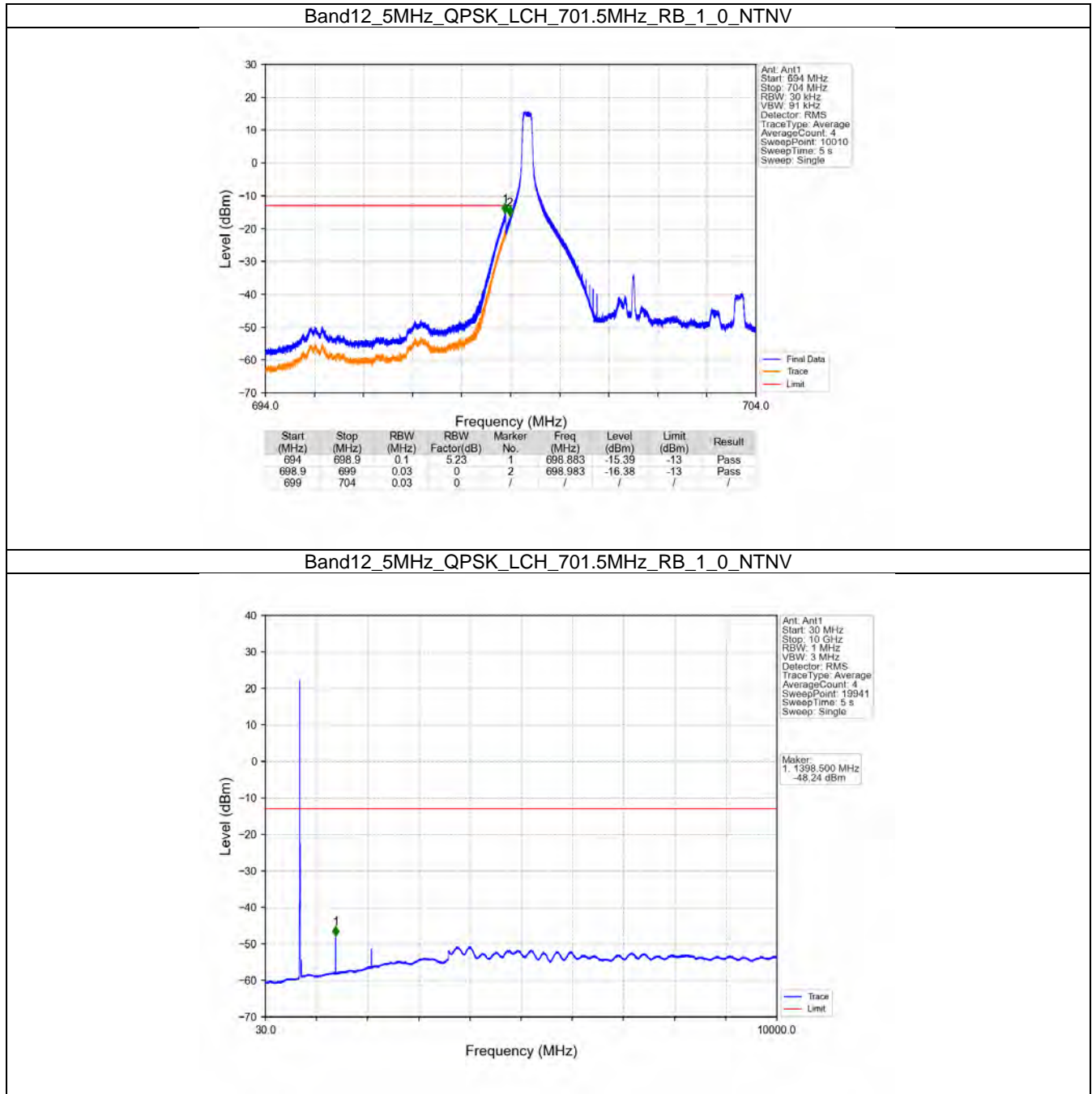


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6.3.2 Test Graph



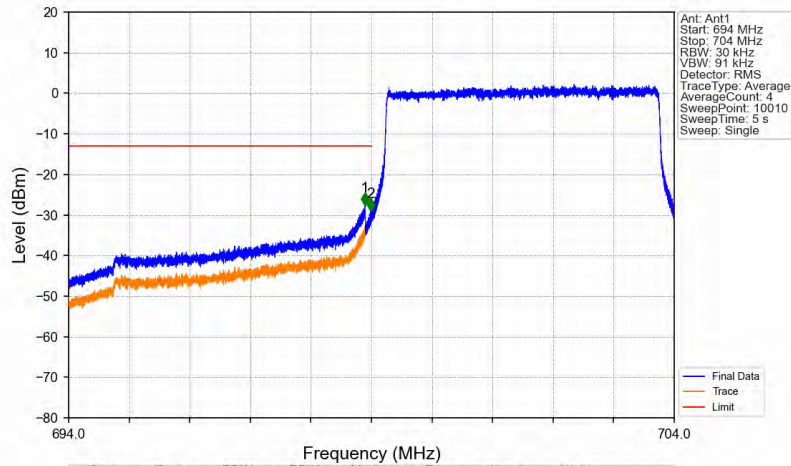
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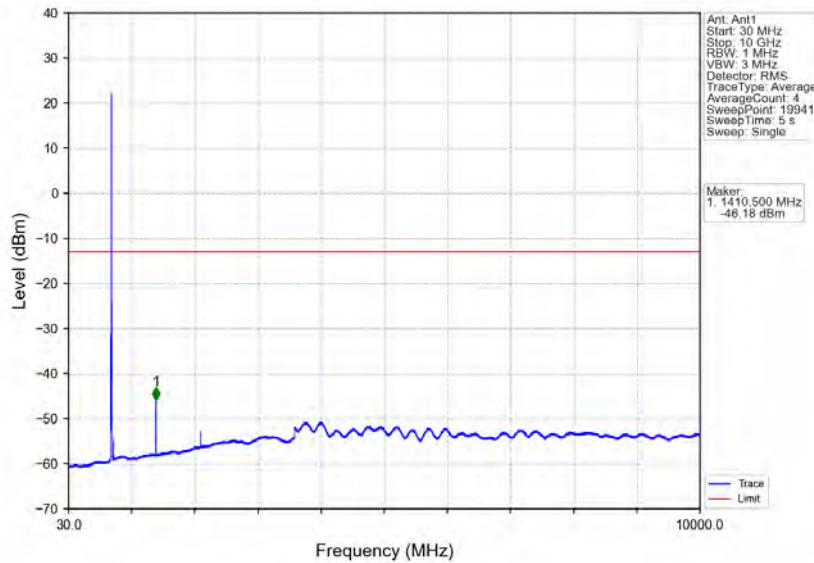
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Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	5.23	1	698.889	-27.63	-13	Pass
698.9	699	0.03	0	2	698.990	-28.98	-13	Pass
699	704	0.03	0	/	/	/	/	/

Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



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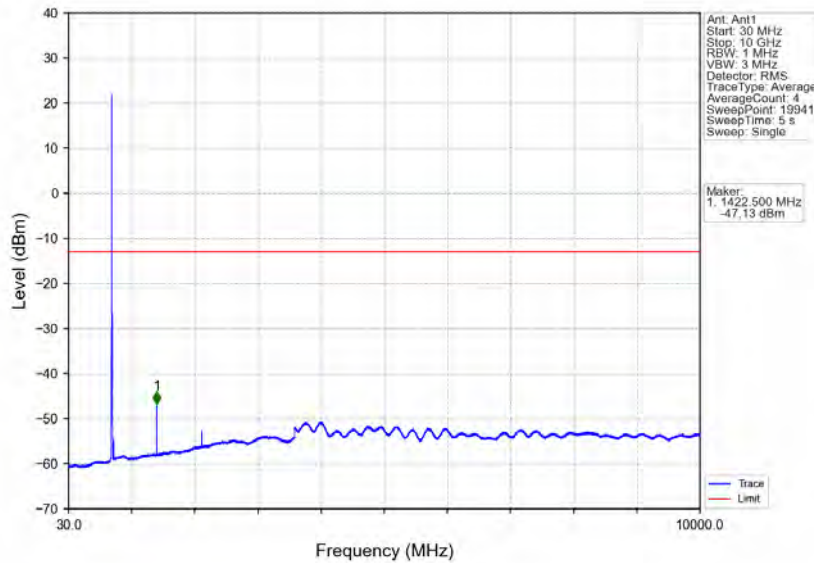
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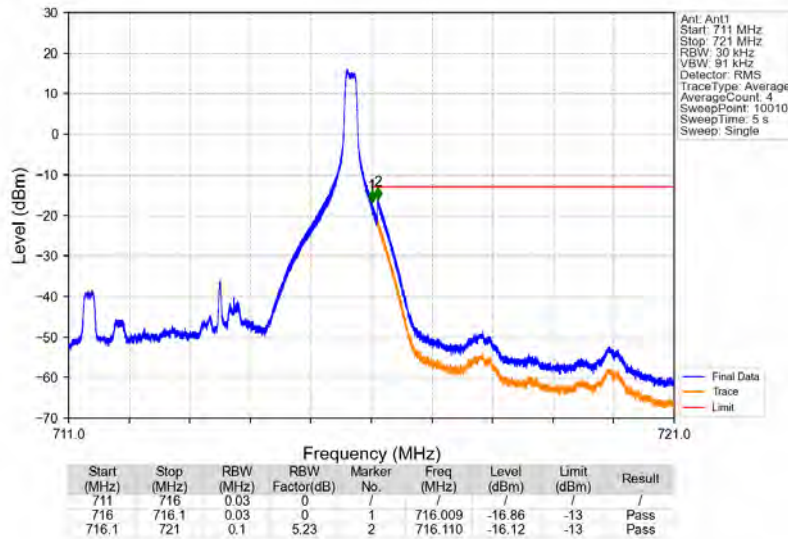


Compliance Certification Services (Kunshan) Inc.
EMC Laboratory

Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



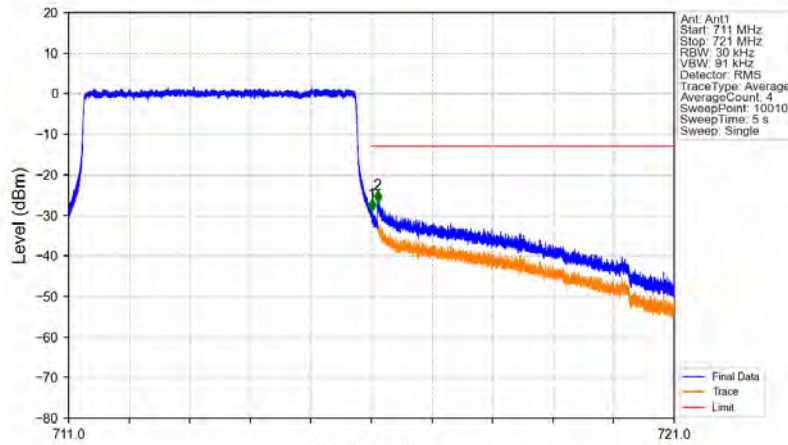
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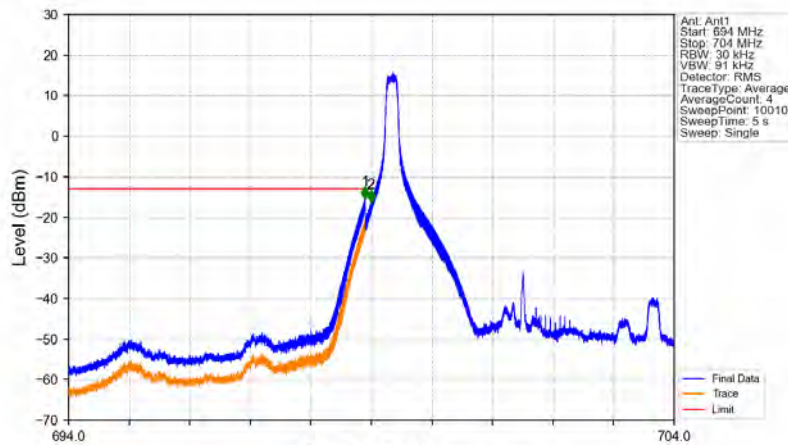
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Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.009	-29.07	-13	Pass
716.1	721	0.1	5.23	2	716.102	-26.93	-13	Pass

Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	5.23	1	698.899	-15.55	-13	Pass
698.9	699	0.03	0	2	698.995	-16.29	-13	Pass
699	704	0.03	0	/	/	/	/	/



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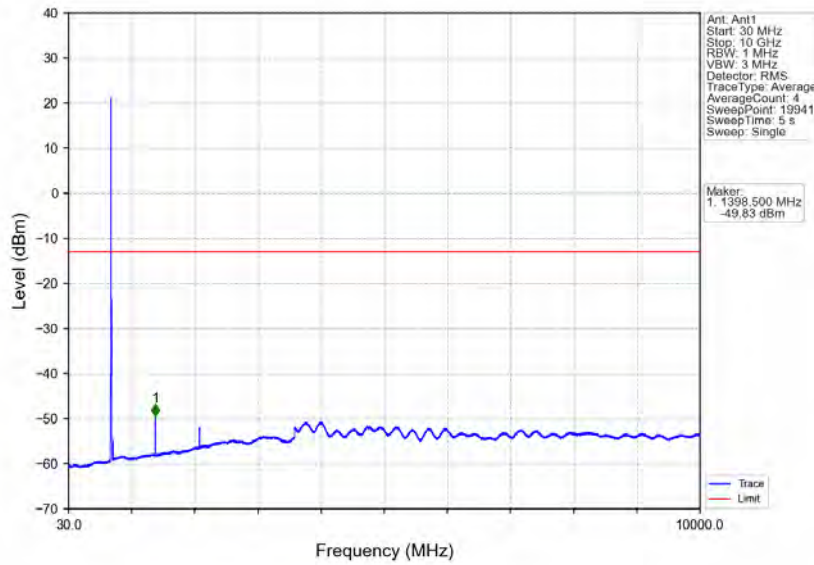
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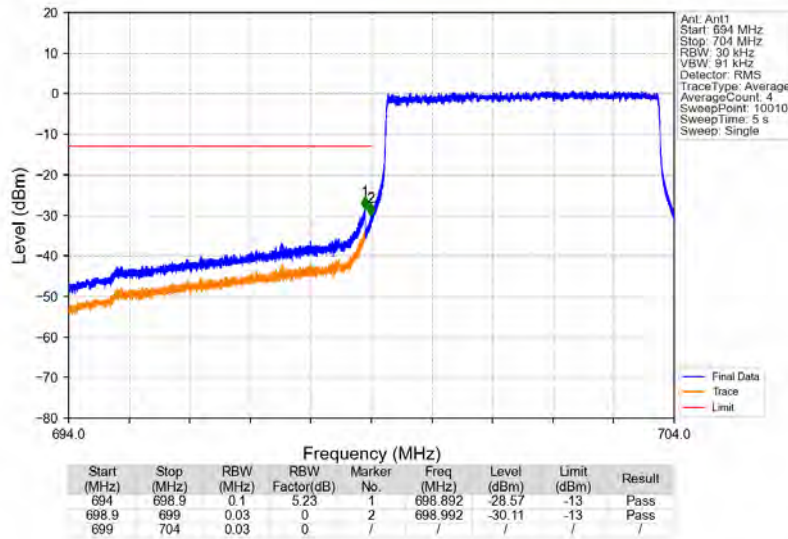
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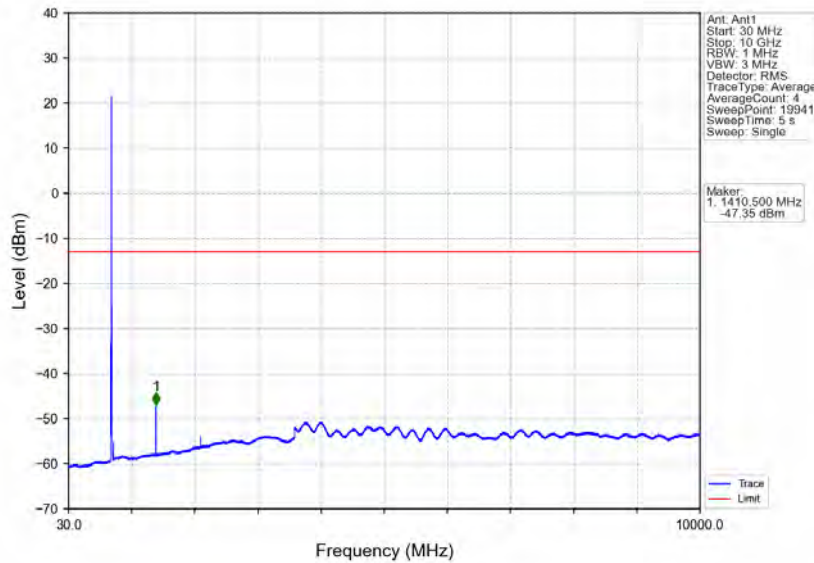
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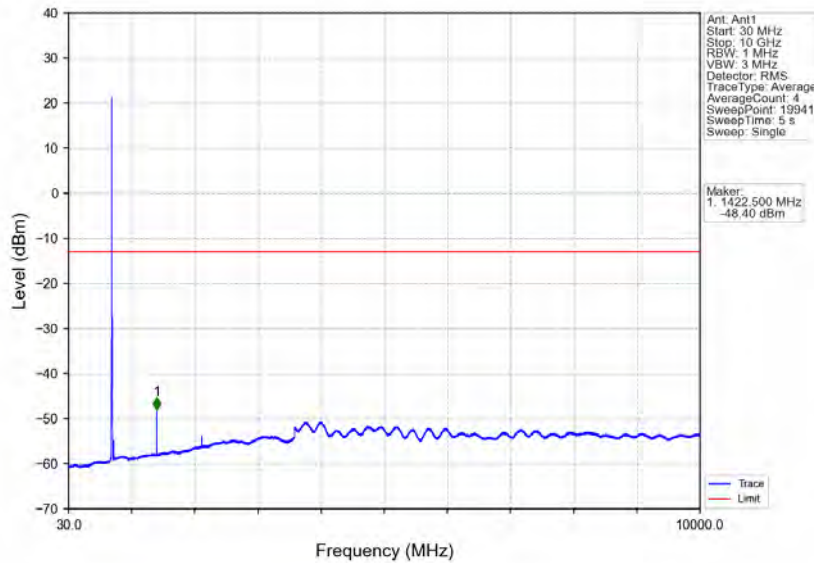
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Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



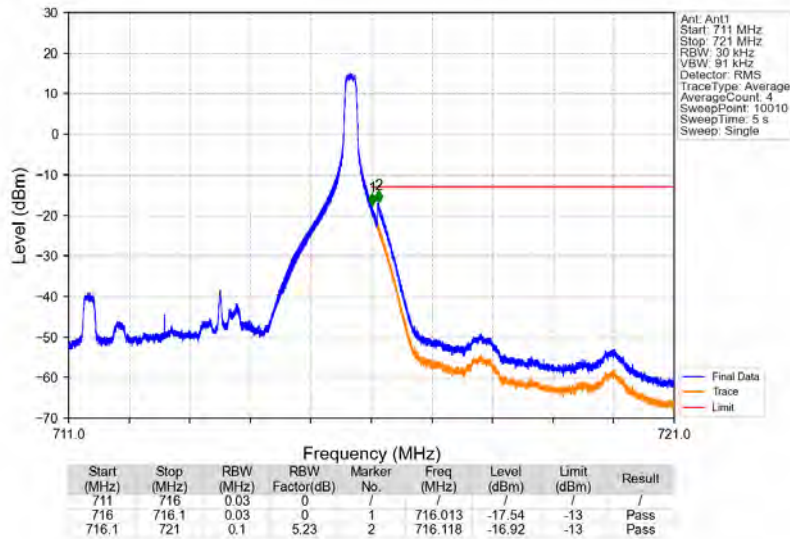
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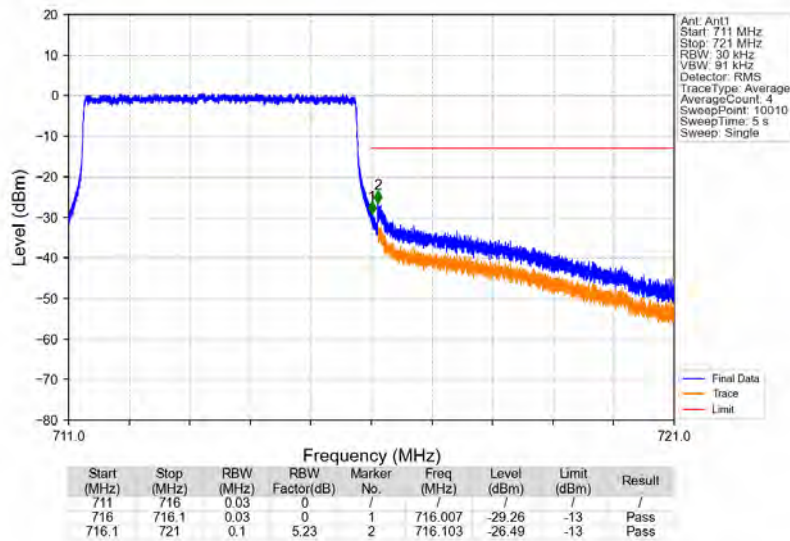
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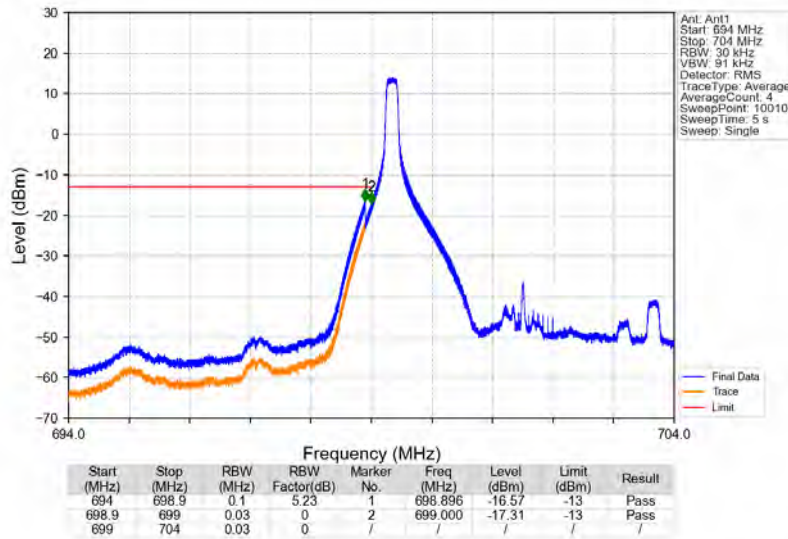
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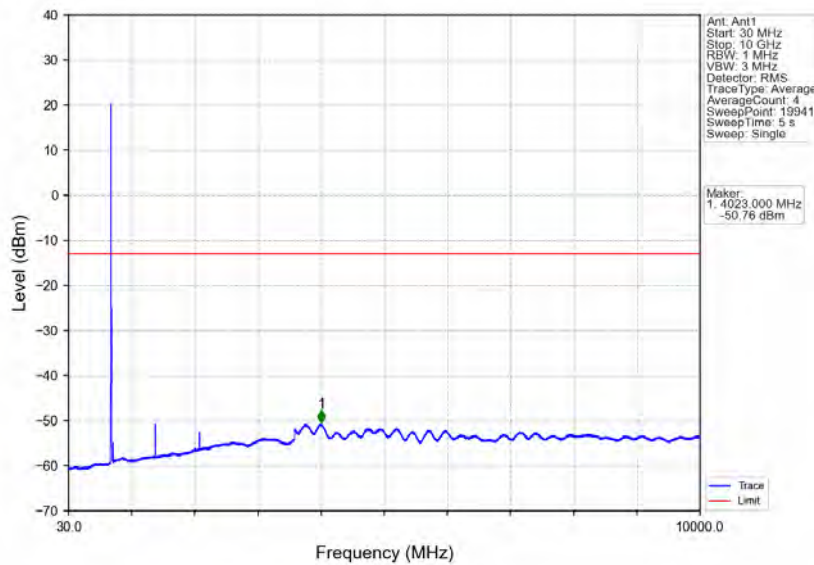
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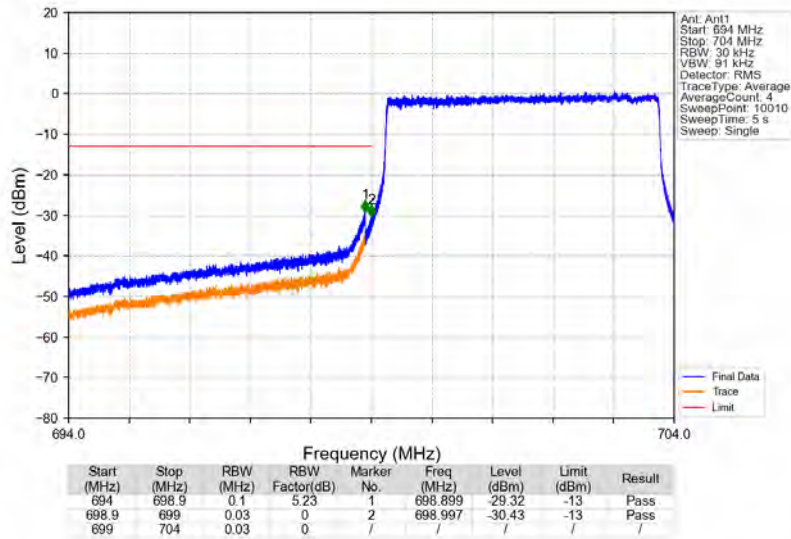
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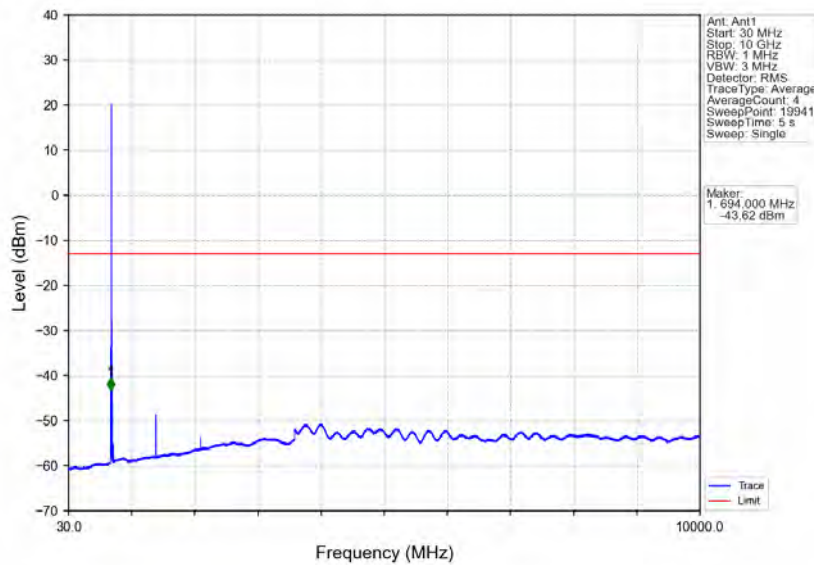
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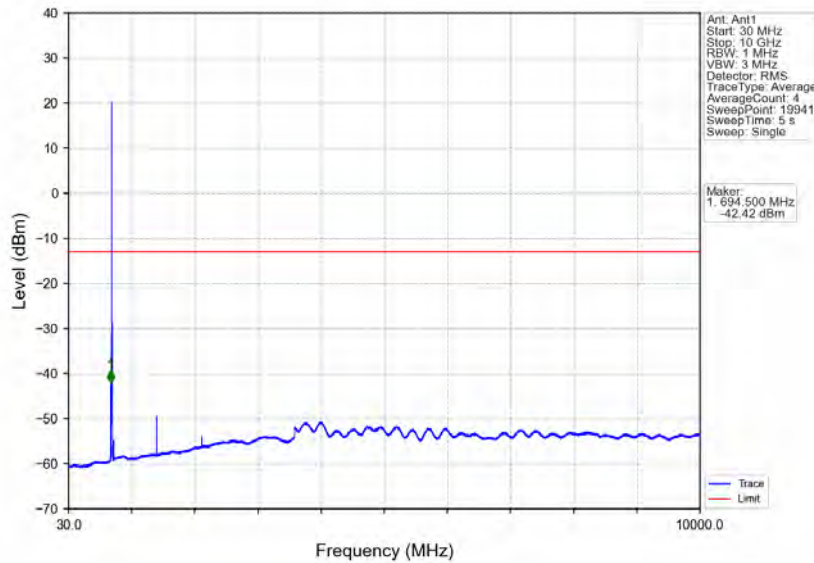
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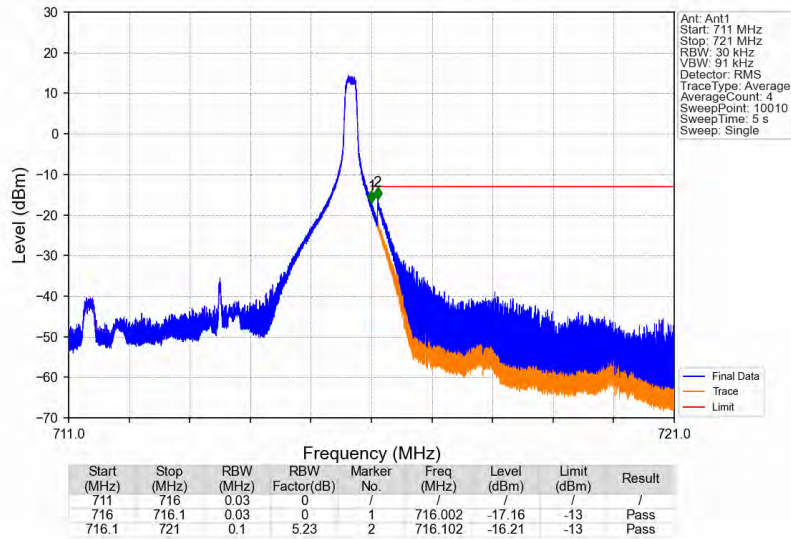
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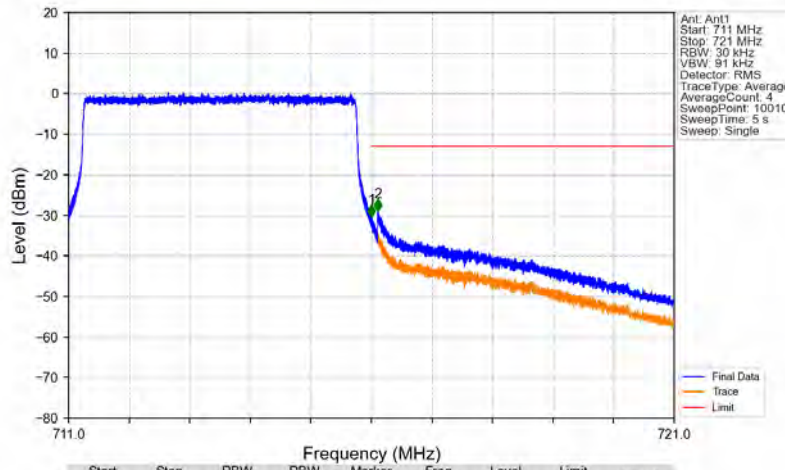
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Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	0	/	/	/	/	/
716.1	721	0.1	5.23	2	716.104	-28.99	-13	Pass



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6.4 B12_10MHz

6.4.1 Test Result

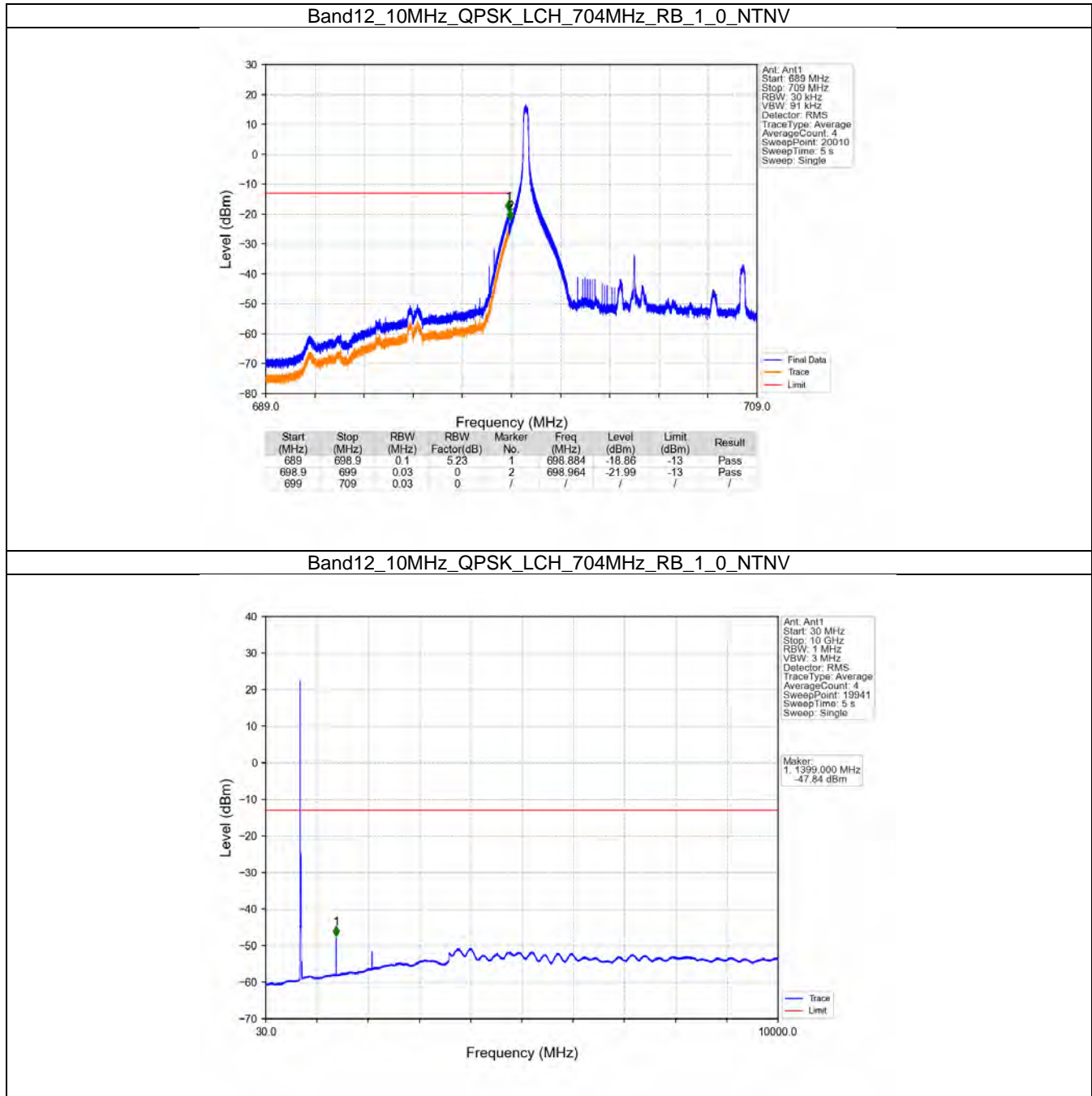
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph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



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6.4.2 Test Graph



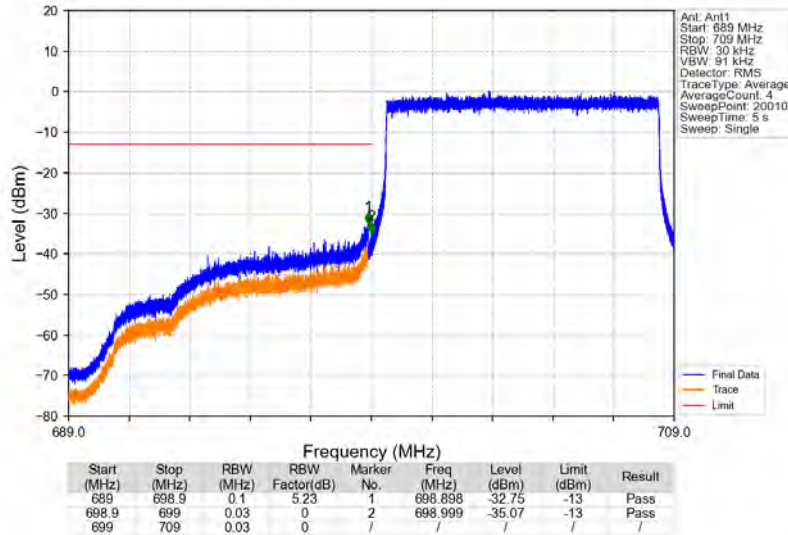
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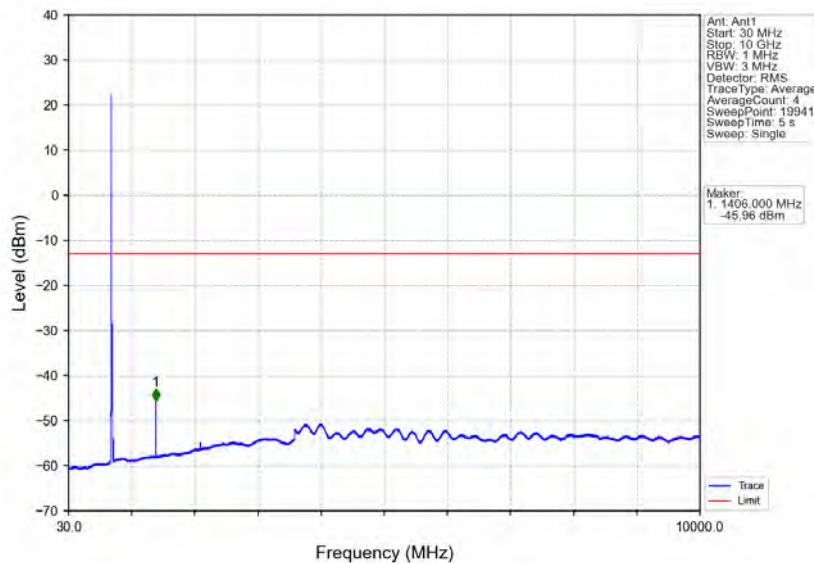
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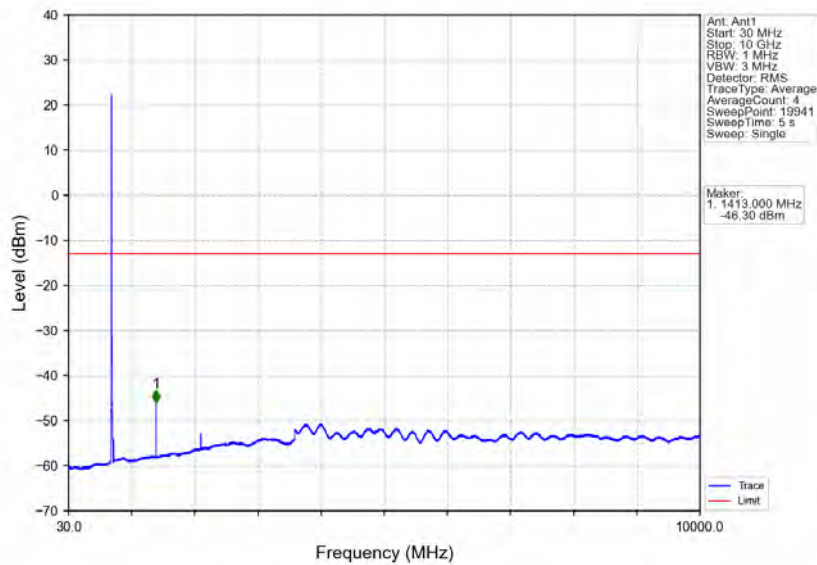
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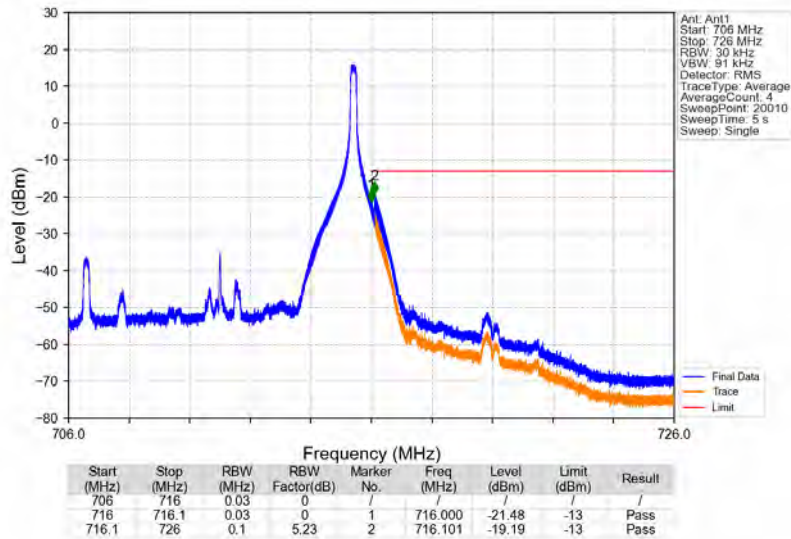
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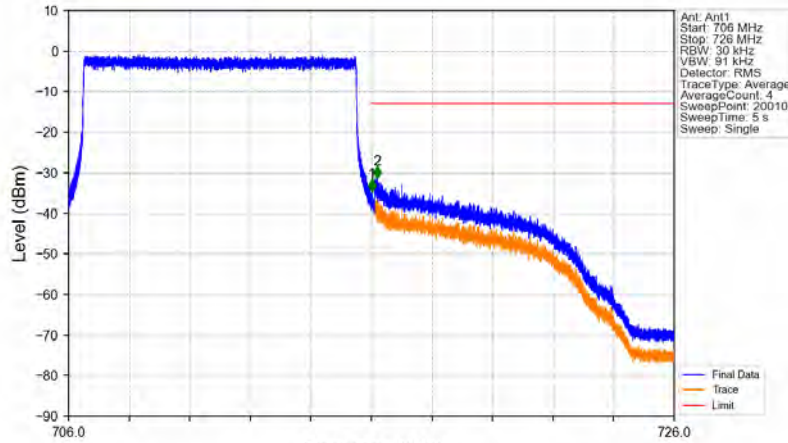
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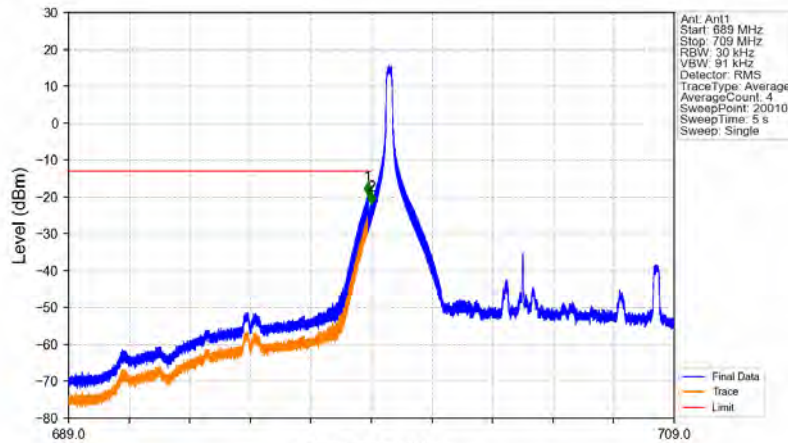
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Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.016	-34.57	-13	Pass
716.1	726	0.1	5.23	2	716.194	-31.48	-13	Pass

Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	5.23	1	698.883	-19.39	-13	Pass
698.9	699	0.03	0	2	698.997	-21.99	-13	Pass
699	709	0.03	0	/	/	/	/	/



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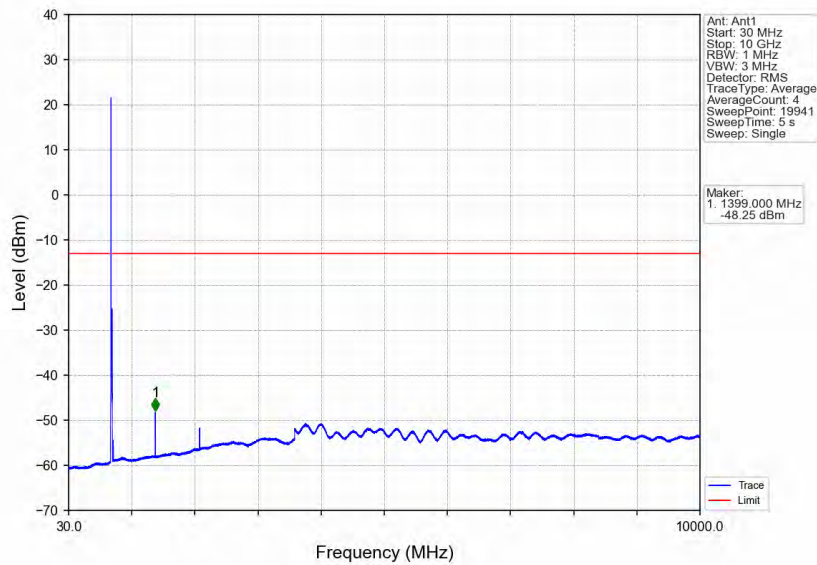
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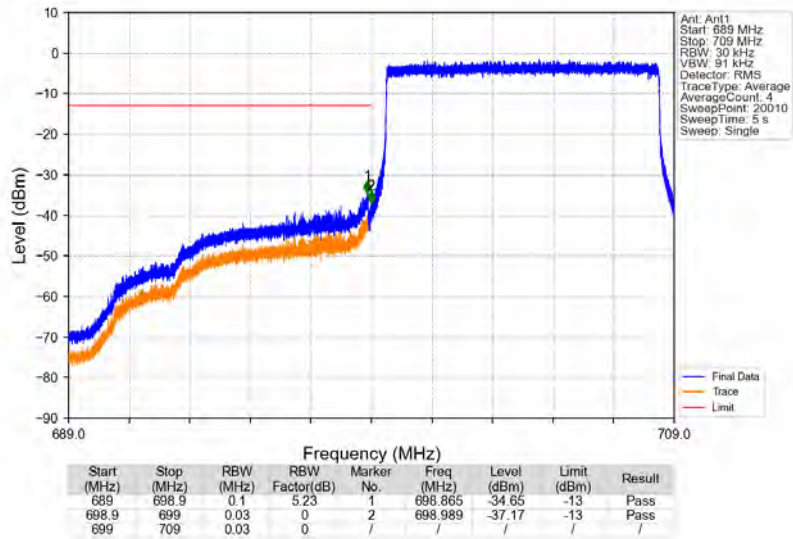
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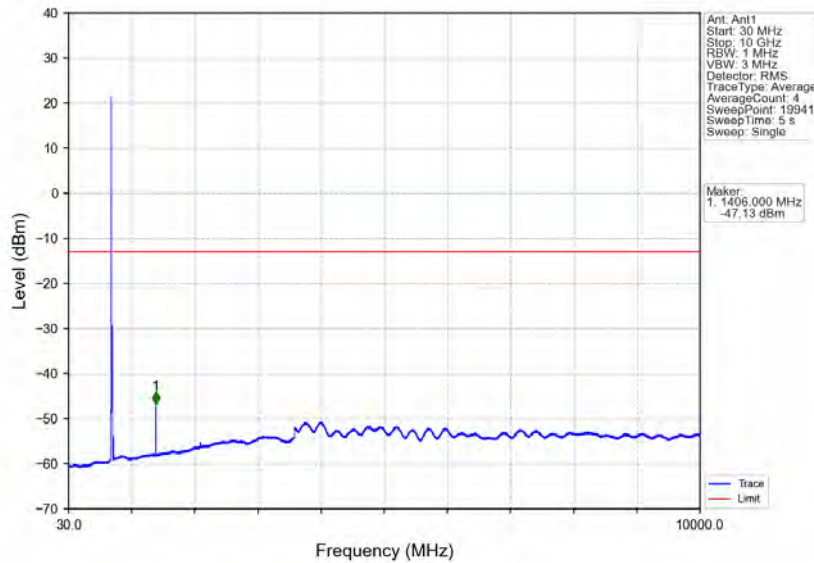
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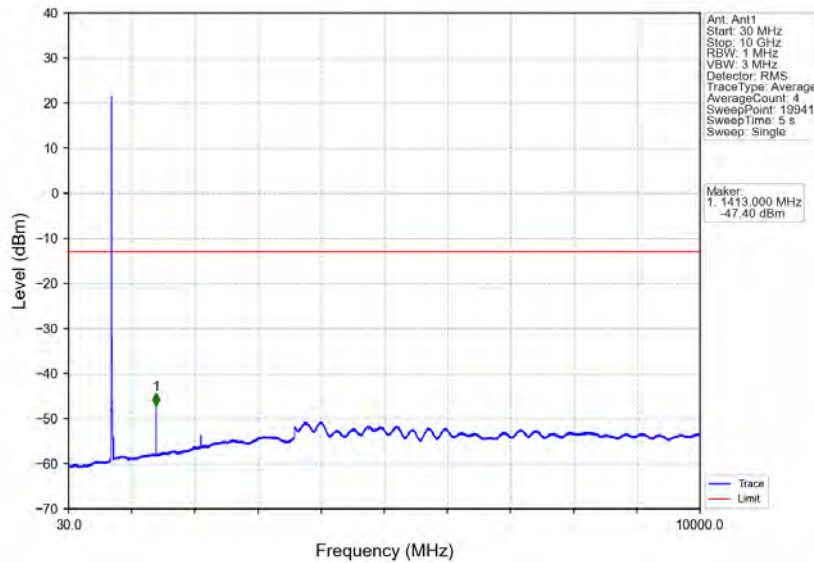
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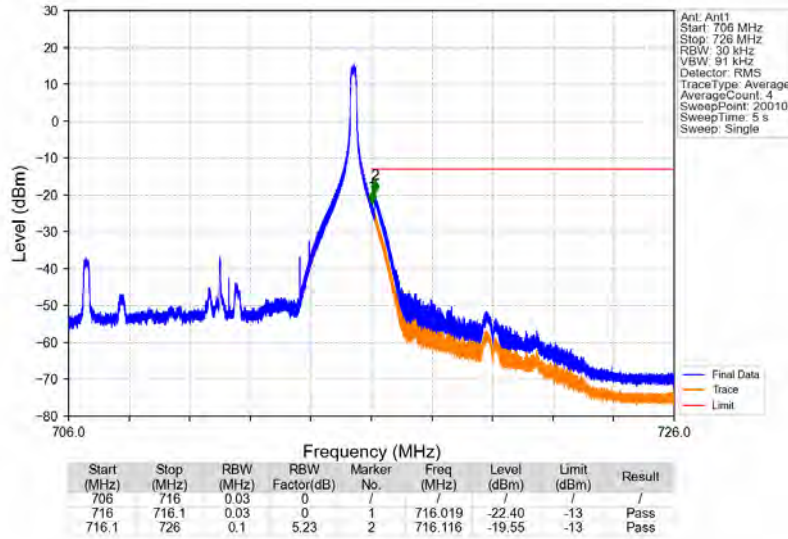
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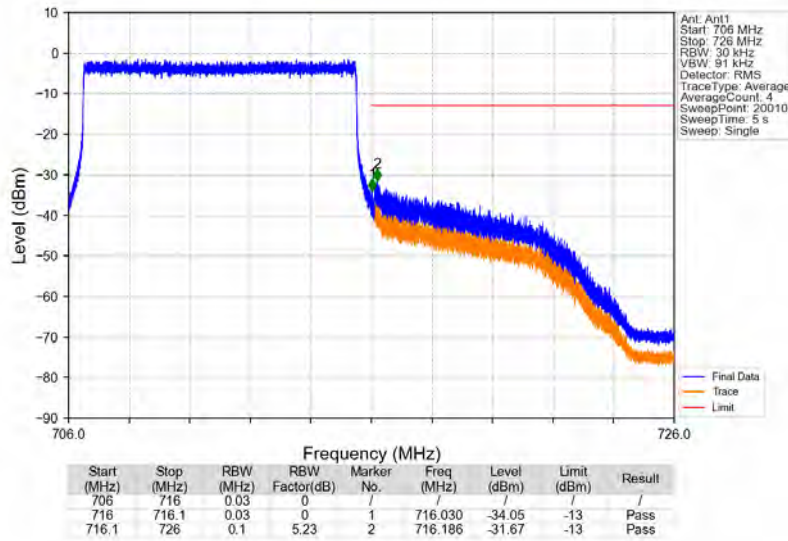
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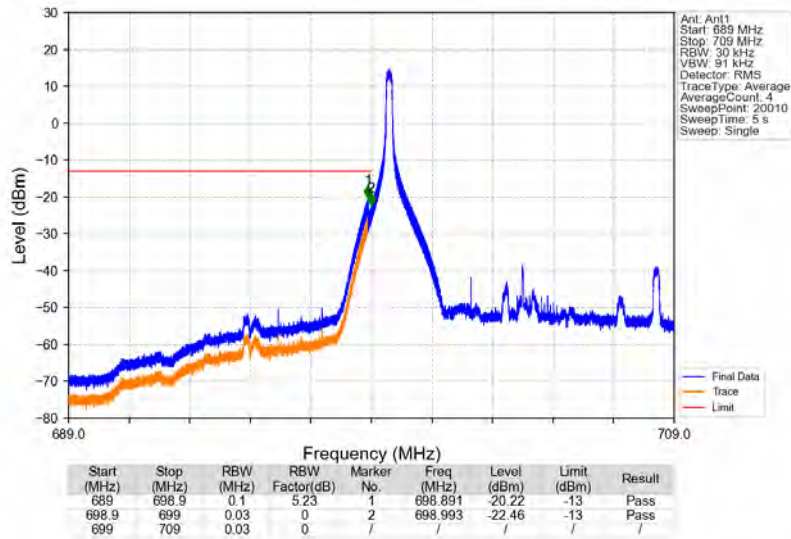
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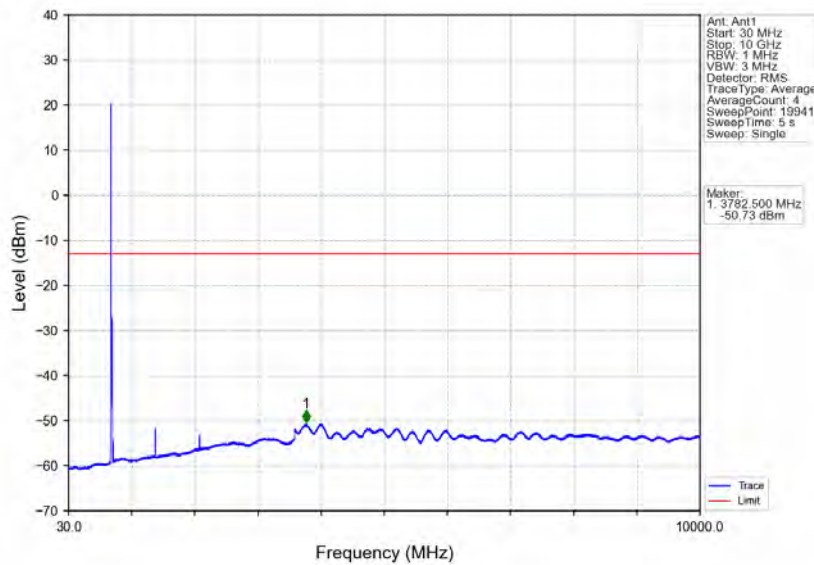
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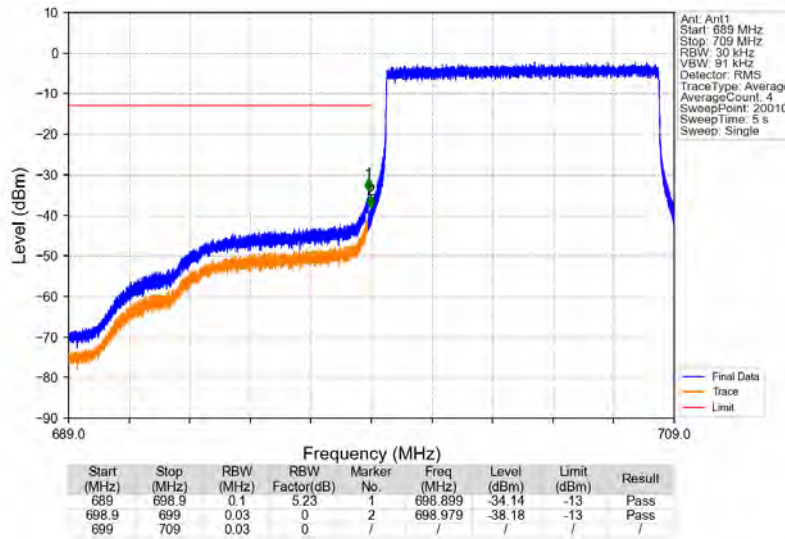
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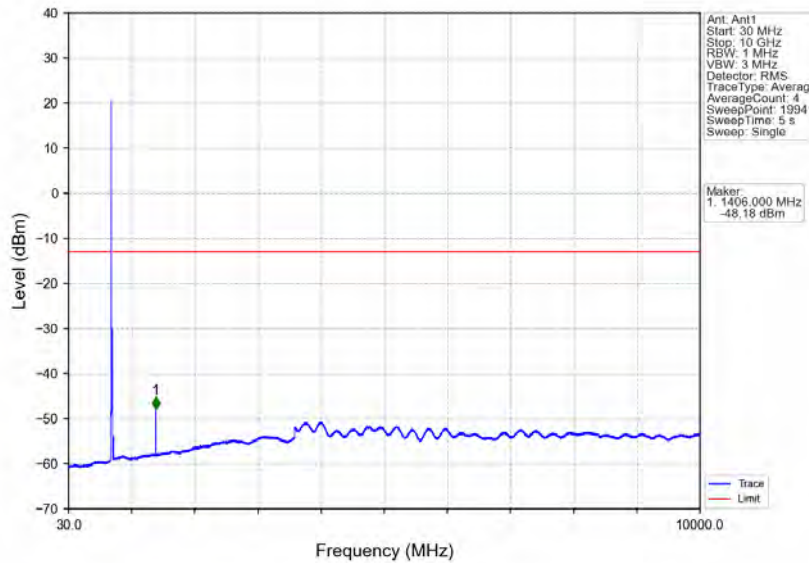


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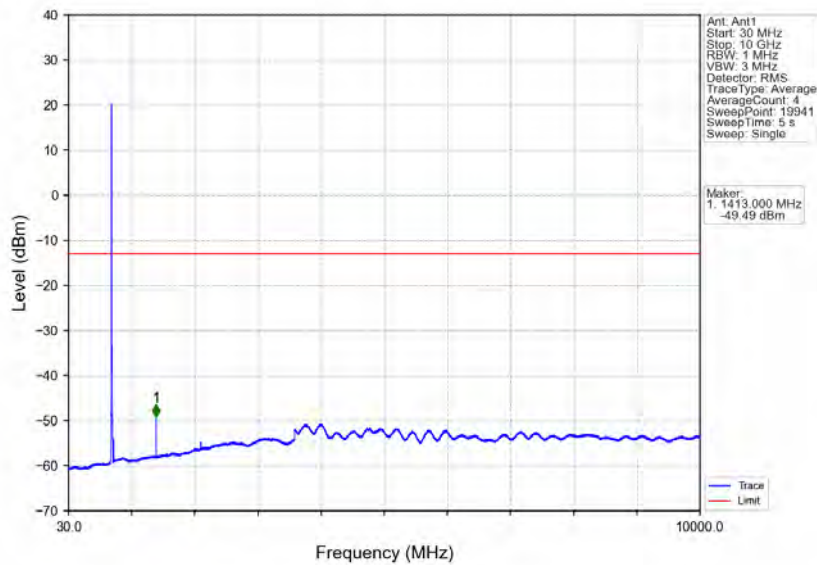
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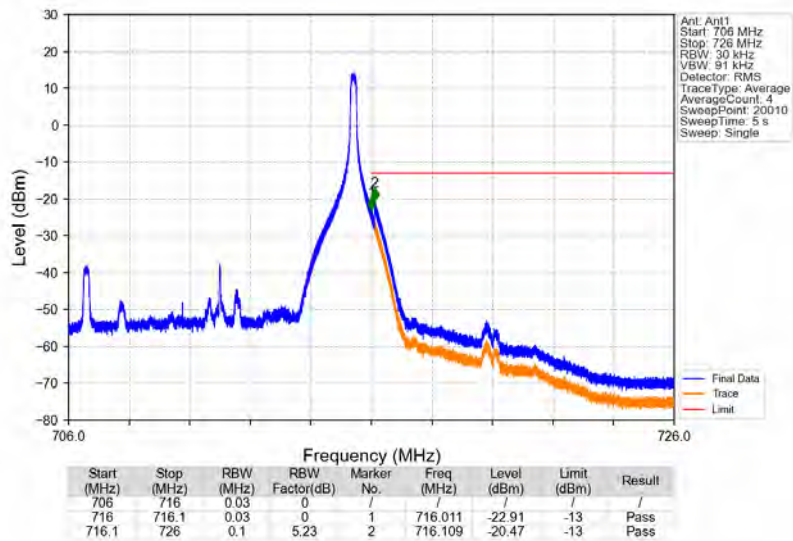


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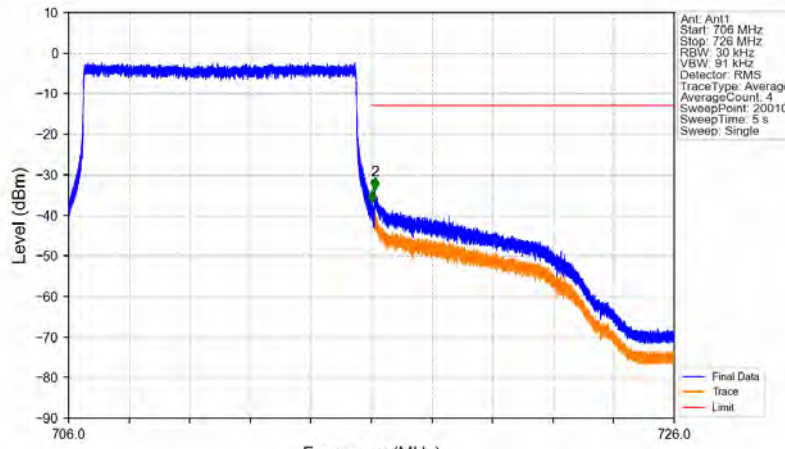
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706	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.034	-36.97	-13	Pass
716.1	726	0.1	5.23	2	716.114	-33.67	-13	Pass



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