

1. Effective (Isotropic) Radiated Power Output Data

1.1 B12_1.4MHz_ERP

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	23.69	-4.30	17.24	<=34.77	Pass		
			2	23.73	-4.30	17.28	<=34.77	Pass		
			5	23.67	-4.30	17.22	<=34.77	Pass		
		3	0	23.70	-4.30	17.25	<=34.77	Pass		
			2	23.73	-4.30	17.28	<=34.77	Pass		
			3	23.73	-4.30	17.28	<=34.77	Pass		
		6	0	22.79	-4.30	16.34	<=34.77	Pass		
		707.5	1	0	23.77	-4.30	17.32	<=34.77	Pass	
				2	23.86	-4.30	17.41	<=34.77	Pass	
	5			23.83	-4.30	17.38	<=34.77	Pass		
	3		0	23.86	-4.30	17.41	<=34.77	Pass		
			2	23.91	-4.30	17.46	<=34.77	Pass		
			3	23.87	-4.30	17.42	<=34.77	Pass		
	6		0	22.95	-4.30	16.50	<=34.77	Pass		
	715.3		1	0	23.80	-4.30	17.35	<=34.77	Pass	
				2	23.84	-4.30	17.39	<=34.77	Pass	
		5		23.82	-4.30	17.37	<=34.77	Pass		
		3	0	23.85	-4.30	17.40	<=34.77	Pass		
			2	23.88	-4.30	17.43	<=34.77	Pass		
			3	23.82	-4.30	17.37	<=34.77	Pass		
		6	0	22.98	-4.30	16.53	<=34.77	Pass		
		16QAM	699.7	1	0	22.60	-4.30	16.15	<=34.77	Pass
					2	22.64	-4.30	16.19	<=34.77	Pass
	5				22.65	-4.30	16.20	<=34.77	Pass	
3	0			22.72	-4.30	16.27	<=34.77	Pass		
	2			22.74	-4.30	16.29	<=34.77	Pass		
	3			22.72	-4.30	16.27	<=34.77	Pass		
6	0			21.71	-4.30	15.26	<=34.77	Pass		
707.5	1			0	22.87	-4.30	16.42	<=34.77	Pass	
				2	22.96	-4.30	16.51	<=34.77	Pass	
			5	22.91	-4.30	16.46	<=34.77	Pass		
	3		0	22.92	-4.30	16.47	<=34.77	Pass		
			2	22.96	-4.30	16.51	<=34.77	Pass		
			3	22.93	-4.30	16.48	<=34.77	Pass		
	6		0	21.90	-4.30	15.45	<=34.77	Pass		
	715.3		1	0	22.88	-4.30	16.43	<=34.77	Pass	
				2	22.91	-4.30	16.46	<=34.77	Pass	
5				22.85	-4.30	16.40	<=34.77	Pass		
3			0	22.75	-4.30	16.30	<=34.77	Pass		
			2	22.77	-4.30	16.32	<=34.77	Pass		
			3	22.74	-4.30	16.29	<=34.77	Pass		
6			0	21.91	-4.30	15.46	<=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	23.60	-4.30	17.15	<=34.77	Pass		
			7	23.71	-4.30	17.26	<=34.77	Pass		
			14	23.58	-4.30	17.13	<=34.77	Pass		
		8	0	22.77	-4.30	16.32	<=34.77	Pass		
			4	22.82	-4.30	16.37	<=34.77	Pass		
			7	22.75	-4.30	16.30	<=34.77	Pass		
		15	0	22.72	-4.30	16.27	<=34.77	Pass		
		707.5	1	0	23.64	-4.30	17.19	<=34.77	Pass	
				7	23.83	-4.30	17.38	<=34.77	Pass	
	14			23.70	-4.30	17.25	<=34.77	Pass		
	8		0	22.89	-4.30	16.44	<=34.77	Pass		
			4	22.97	-4.30	16.52	<=34.77	Pass		
			7	22.89	-4.30	16.44	<=34.77	Pass		
	15		0	22.82	-4.30	16.37	<=34.77	Pass		
	714.5		1	0	23.67	-4.30	17.22	<=34.77	Pass	
				7	23.76	-4.30	17.31	<=34.77	Pass	
		14		23.69	-4.30	17.24	<=34.77	Pass		
		8	0	22.81	-4.30	16.36	<=34.77	Pass		
			4	22.91	-4.30	16.46	<=34.77	Pass		
			7	22.83	-4.30	16.38	<=34.77	Pass		
		15	0	22.78	-4.30	16.33	<=34.77	Pass		
		16QAM	700.5	1	0	22.52	-4.30	16.07	<=34.77	Pass
					7	22.69	-4.30	16.24	<=34.77	Pass
	14				22.60	-4.30	16.15	<=34.77	Pass	
	8			0	21.81	-4.30	15.36	<=34.77	Pass	
				4	21.86	-4.30	15.41	<=34.77	Pass	
				7	21.78	-4.30	15.33	<=34.77	Pass	
15	0			21.75	-4.30	15.30	<=34.77	Pass		
707.5	1			0	22.80	-4.30	16.35	<=34.77	Pass	
				7	22.94	-4.30	16.49	<=34.77	Pass	
			14	22.78	-4.30	16.33	<=34.77	Pass		
	8		0	21.77	-4.30	15.32	<=34.77	Pass		
			4	21.92	-4.30	15.47	<=34.77	Pass		
			7	21.80	-4.30	15.35	<=34.77	Pass		
	15		0	21.75	-4.30	15.30	<=34.77	Pass		
	714.5		1	0	23.09	-4.30	16.64	<=34.77	Pass	
				7	23.16	-4.30	16.71	<=34.77	Pass	
14				22.97	-4.30	16.52	<=34.77	Pass		
8			0	21.92	-4.30	15.47	<=34.77	Pass		
			4	21.99	-4.30	15.54	<=34.77	Pass		
			7	21.90	-4.30	15.45	<=34.77	Pass		
15			0	21.79	-4.30	15.34	<=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	23.80	-4.30	17.35	<=34.77	Pass
			13	23.90	-4.30	17.45	<=34.77	Pass
			24	23.84	-4.30	17.39	<=34.77	Pass

16QAM	707.5	12	0	22.82	-4.30	16.37	<=34.77	Pass	
			6	22.85	-4.30	16.40	<=34.77	Pass	
			13	22.84	-4.30	16.39	<=34.77	Pass	
		25	0	22.80	-4.30	16.35	<=34.77	Pass	
			1	0	23.82	-4.30	17.37	<=34.77	Pass
				13	24.05	-4.30	17.60	<=34.77	Pass
		24		23.92	-4.30	17.47	<=34.77	Pass	
		713.5	12	0	22.80	-4.30	16.35	<=34.77	Pass
				6	22.93	-4.30	16.48	<=34.77	Pass
	13			22.91	-4.30	16.46	<=34.77	Pass	
	25		0	22.85	-4.30	16.40	<=34.77	Pass	
			1	0	23.86	-4.30	17.41	<=34.77	Pass
				13	24.03	-4.30	17.58	<=34.77	Pass
	24	23.89		-4.30	17.44	<=34.77	Pass		
	701.5	707.5	1	0	22.81	-4.30	16.36	<=34.77	Pass
				13	22.99	-4.30	16.54	<=34.77	Pass
				24	22.90	-4.30	16.45	<=34.77	Pass
			12	0	21.78	-4.30	15.33	<=34.77	Pass
				6	21.82	-4.30	15.37	<=34.77	Pass
				13	21.81	-4.30	15.36	<=34.77	Pass
		25	0	21.84	-4.30	15.39	<=34.77	Pass	
			1	0	23.01	-4.30	16.56	<=34.77	Pass
				13	23.22	-4.30	16.77	<=34.77	Pass
		24		23.08	-4.30	16.63	<=34.77	Pass	
713.5		12	0	21.84	-4.30	15.39	<=34.77	Pass	
			6	21.96	-4.30	15.51	<=34.77	Pass	
			13	21.90	-4.30	15.45	<=34.77	Pass	
		25	0	21.87	-4.30	15.42	<=34.77	Pass	
			1	0	22.66	-4.30	16.21	<=34.77	Pass
				13	22.80	-4.30	16.35	<=34.77	Pass
24		22.66		-4.30	16.21	<=34.77	Pass		
707.5		12	0	21.82	-4.30	15.37	<=34.77	Pass	
	6		21.90	-4.30	15.45	<=34.77	Pass		
	13		21.84	-4.30	15.39	<=34.77	Pass		
	25	0	21.89	-4.30	15.44	<=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 / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	704	1	0	23.84	-4.30	17.39	<=34.77	Pass
			25	23.97	-4.30	17.52	<=34.77	Pass
			49	24.12	-4.30	17.67	<=34.77	Pass
		25	0	22.76	-4.30	16.31	<=34.77	Pass
			13	22.90	-4.30	16.45	<=34.77	Pass
			25	22.99	-4.30	16.54	<=34.77	Pass
	50	0	22.92	-4.30	16.47	<=34.77	Pass	
	707.5	1	0	23.79	-4.30	17.34	<=34.77	Pass
			25	24.03	-4.30	17.58	<=34.77	Pass

16QAM	711	25	49	24.01	-4.30	17.56	<=34.77	Pass	
			0	22.72	-4.30	16.27	<=34.77	Pass	
			13	22.96	-4.30	16.51	<=34.77	Pass	
			25	22.89	-4.30	16.44	<=34.77	Pass	
		50	0	22.79	-4.30	16.34	<=34.77	Pass	
			0	23.98	-4.30	17.53	<=34.77	Pass	
		1	25	24.02	-4.30	17.57	<=34.77	Pass	
			49	24.03	-4.30	17.58	<=34.77	Pass	
			0	22.91	-4.30	16.46	<=34.77	Pass	
		25	13	22.97	-4.30	16.52	<=34.77	Pass	
			25	22.87	-4.30	16.42	<=34.77	Pass	
			0	22.98	-4.30	16.53	<=34.77	Pass	
	704	1	0	22.80	-4.30	16.35	<=34.77	Pass	
			25	22.91	-4.30	16.46	<=34.77	Pass	
			49	23.03	-4.30	16.58	<=34.77	Pass	
		25	0	21.88	-4.30	15.43	<=34.77	Pass	
			13	22.02	-4.30	15.57	<=34.77	Pass	
			25	22.04	-4.30	15.59	<=34.77	Pass	
		50	0	21.95	-4.30	15.50	<=34.77	Pass	
		707.5	1	0	22.94	-4.30	16.49	<=34.77	Pass
				25	23.15	-4.30	16.70	<=34.77	Pass
				49	23.12	-4.30	16.67	<=34.77	Pass
			25	0	21.77	-4.30	15.32	<=34.77	Pass
				13	22.00	-4.30	15.55	<=34.77	Pass
25	21.91			-4.30	15.46	<=34.77	Pass		
50	0	21.84	-4.30	15.39	<=34.77	Pass			
711	1	0	23.38	-4.30	16.93	<=34.77	Pass		
		25	23.44	-4.30	16.99	<=34.77	Pass		
		49	23.35	-4.30	16.90	<=34.77	Pass		
	25	0	22.03	-4.30	15.58	<=34.77	Pass		
		13	22.07	-4.30	15.62	<=34.77	Pass		
		25	21.98	-4.30	15.53	<=34.77	Pass		
	50	0	21.93	-4.30	15.48	<=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	3.27	-4.163	-0.0059	-2.5 to 2.5	Pass			
					3.85	-6.208	-0.0089	-2.5 to 2.5	Pass			
					4.43	-5.465	-0.0078	-2.5 to 2.5	Pass			
				-30	3.85	-4.435	-0.0063	-2.5 to 2.5	Pass			
					-20	3.85	-4.263	-0.0061	-2.5 to 2.5	Pass		
						-10	3.85	-6.480	-0.0093	-2.5 to 2.5	Pass	
					0	3.85	-4.835	-0.0069	-2.5 to 2.5	Pass		
					10	3.85	-5.178	-0.0074	-2.5 to 2.5	Pass		
					30	3.85	-0.744	-0.0011	-2.5 to 2.5	Pass		
				707.5	6	0	40	3.85	-3.304	-0.0047	-2.5 to 2.5	Pass
							50	3.85	-5.493	-0.0079	-2.5 to 2.5	Pass
							20	3.27	1.073	0.0015	-2.5 to 2.5	Pass

					3.85	-4.663	-0.0066	-2.5 to 2.5	Pass
					4.43	-4.978	-0.0070	-2.5 to 2.5	Pass
					-30	3.85	-0.930	-0.0013	-2.5 to 2.5
				-20	3.85	-3.362	-0.0048	-2.5 to 2.5	Pass
				-10	3.85	-2.847	-0.0040	-2.5 to 2.5	Pass
				0	3.85	-1.659	-0.0023	-2.5 to 2.5	Pass
				10	3.85	-2.804	-0.0040	-2.5 to 2.5	Pass
				30	3.85	-1.130	-0.0016	-2.5 to 2.5	Pass
				40	3.85	-0.386	-0.0005	-2.5 to 2.5	Pass
	50	3.85	-2.847	-0.0040	-2.5 to 2.5	Pass			
	715.3	6	0	20	3.27	-0.157	-0.0002	-2.5 to 2.5	Pass
					3.85	-3.834	-0.0054	-2.5 to 2.5	Pass
					4.43	-2.961	-0.0041	-2.5 to 2.5	Pass
				-30	3.85	-4.663	-0.0065	-2.5 to 2.5	Pass
				-20	3.85	-3.090	-0.0043	-2.5 to 2.5	Pass
				-10	3.85	-5.908	-0.0083	-2.5 to 2.5	Pass
				0	3.85	-2.532	-0.0035	-2.5 to 2.5	Pass
				10	3.85	-3.133	-0.0044	-2.5 to 2.5	Pass
30				3.85	-4.520	-0.0063	-2.5 to 2.5	Pass	
40	3.85	-7.081	-0.0099	-2.5 to 2.5	Pass				
50	3.85	-3.748	-0.0052	-2.5 to 2.5	Pass				
16QAM	699.7	6	0	20	3.27	-2.975	-0.0043	-2.5 to 2.5	Pass
					3.85	-3.977	-0.0057	-2.5 to 2.5	Pass
					4.43	-1.273	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-3.119	-0.0045	-2.5 to 2.5	Pass
				-20	3.85	-1.717	-0.0025	-2.5 to 2.5	Pass
				-10	3.85	-5.407	-0.0077	-2.5 to 2.5	Pass
				0	3.85	-4.106	-0.0059	-2.5 to 2.5	Pass
				10	3.85	-3.347	-0.0048	-2.5 to 2.5	Pass
				30	3.85	-0.243	-0.0003	-2.5 to 2.5	Pass
	40	3.85	-2.961	-0.0042	-2.5 to 2.5	Pass			
	50	3.85	-0.973	-0.0014	-2.5 to 2.5	Pass			
	707.5	6	0	20	3.27	-3.548	-0.0050	-2.5 to 2.5	Pass
					3.85	-3.805	-0.0054	-2.5 to 2.5	Pass
					4.43	-2.046	-0.0029	-2.5 to 2.5	Pass
				-30	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				-20	3.85	-1.631	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	-2.818	-0.0040	-2.5 to 2.5	Pass
				0	3.85	-2.704	-0.0038	-2.5 to 2.5	Pass
10				3.85	-2.174	-0.0031	-2.5 to 2.5	Pass	
30				3.85	-2.074	-0.0029	-2.5 to 2.5	Pass	
40	3.85	-3.304	-0.0047	-2.5 to 2.5	Pass				
50	3.85	-1.674	-0.0024	-2.5 to 2.5	Pass				
715.3	6	0	20	3.27	-3.920	-0.0055	-2.5 to 2.5	Pass	
				3.85	-0.801	-0.0011	-2.5 to 2.5	Pass	
				4.43	-2.546	-0.0036	-2.5 to 2.5	Pass	
			-30	3.85	-4.492	-0.0063	-2.5 to 2.5	Pass	
			-20	3.85	-4.492	-0.0063	-2.5 to 2.5	Pass	
			-10	3.85	-1.588	-0.0022	-2.5 to 2.5	Pass	
			0	3.85	-1.273	-0.0018	-2.5 to 2.5	Pass	
			10	3.85	1.130	0.0016	-2.5 to 2.5	Pass	
			30	3.85	-4.163	-0.0058	-2.5 to 2.5	Pass	
40	3.85	0.787	0.0011	-2.5 to 2.5	Pass				
50	3.85	-3.033	-0.0042	-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	3.27	-2.861	-0.0041	-2.5 to 2.5	Pass
					3.85	-3.676	-0.0052	-2.5 to 2.5	Pass
					4.43	-4.306	-0.0061	-2.5 to 2.5	Pass
				-30	3.85	-2.646	-0.0038	-2.5 to 2.5	Pass
				-20	3.85	-5.379	-0.0077	-2.5 to 2.5	Pass
				-10	3.85	-3.133	-0.0045	-2.5 to 2.5	Pass
				0	3.85	-4.349	-0.0062	-2.5 to 2.5	Pass
				10	3.85	-2.203	-0.0031	-2.5 to 2.5	Pass
				30	3.85	-5.078	-0.0072	-2.5 to 2.5	Pass
				40	3.85	-4.063	-0.0058	-2.5 to 2.5	Pass
	50	3.85	-0.458	-0.0007	-2.5 to 2.5	Pass			
	707.5	15	0	20	3.27	1.316	0.0019	-2.5 to 2.5	Pass
					3.85	-1.316	-0.0019	-2.5 to 2.5	Pass
					4.43	-5.193	-0.0073	-2.5 to 2.5	Pass
				-30	3.85	-2.475	-0.0035	-2.5 to 2.5	Pass
				-20	3.85	-3.719	-0.0053	-2.5 to 2.5	Pass
				-10	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
				0	3.85	-2.661	-0.0038	-2.5 to 2.5	Pass
				10	3.85	-2.160	-0.0031	-2.5 to 2.5	Pass
				30	3.85	-4.292	-0.0061	-2.5 to 2.5	Pass
				40	3.85	-5.608	-0.0079	-2.5 to 2.5	Pass
	50	3.85	-2.003	-0.0028	-2.5 to 2.5	Pass			
	714.5	15	0	20	3.27	-0.272	-0.0004	-2.5 to 2.5	Pass
					3.85	-3.190	-0.0045	-2.5 to 2.5	Pass
					4.43	-5.393	-0.0075	-2.5 to 2.5	Pass
				-30	3.85	-1.259	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	-3.576	-0.0050	-2.5 to 2.5	Pass
				-10	3.85	0.458	0.0006	-2.5 to 2.5	Pass
				0	3.85	-3.805	-0.0053	-2.5 to 2.5	Pass
				10	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass
30				3.85	-2.675	-0.0037	-2.5 to 2.5	Pass	
40				3.85	-5.622	-0.0079	-2.5 to 2.5	Pass	
50	3.85	-2.317	-0.0032	-2.5 to 2.5	Pass				
16QAM	700.5	15	0	20	3.27	-3.262	-0.0047	-2.5 to 2.5	Pass
					3.85	-5.579	-0.0080	-2.5 to 2.5	Pass
					4.43	-5.136	-0.0073	-2.5 to 2.5	Pass
				-30	3.85	-1.044	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	-5.579	-0.0080	-2.5 to 2.5	Pass
				-10	3.85	-1.016	-0.0015	-2.5 to 2.5	Pass
				0	3.85	-2.346	-0.0033	-2.5 to 2.5	Pass
				10	3.85	-3.834	-0.0055	-2.5 to 2.5	Pass
				30	3.85	-4.578	-0.0065	-2.5 to 2.5	Pass
				40	3.85	-3.819	-0.0055	-2.5 to 2.5	Pass
	50	3.85	-1.702	-0.0024	-2.5 to 2.5	Pass			
	707.5	15	0	20	3.27	-1.631	-0.0023	-2.5 to 2.5	Pass
					3.85	-1.016	-0.0014	-2.5 to 2.5	Pass
					4.43	-4.878	-0.0069	-2.5 to 2.5	Pass
				-30	3.85	-3.562	-0.0050	-2.5 to 2.5	Pass
				-20	3.85	-0.358	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	-4.191	-0.0059	-2.5 to 2.5	Pass
				0	3.85	-1.345	-0.0019	-2.5 to 2.5	Pass
				10	3.85	0.200	0.0003	-2.5 to 2.5	Pass
				30	3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
40				3.85	0.958	0.0014	-2.5 to 2.5	Pass	

	714.5	15	0	50	3.85	-0.887	-0.0013	-2.5 to 2.5	Pass
				20	3.27	-1.073	-0.0015	-2.5 to 2.5	Pass
					3.85	-3.505	-0.0049	-2.5 to 2.5	Pass
				-30	4.43	-4.478	-0.0063	-2.5 to 2.5	Pass
					3.85	-2.832	-0.0040	-2.5 to 2.5	Pass
				-20	3.85	-2.089	-0.0029	-2.5 to 2.5	Pass
				-10	3.85	-6.952	-0.0097	-2.5 to 2.5	Pass
				0	3.85	-0.615	-0.0009	-2.5 to 2.5	Pass
				10	3.85	0.100	0.0001	-2.5 to 2.5	Pass
				30	3.85	-4.678	-0.0065	-2.5 to 2.5	Pass
				40	3.85	-2.189	-0.0031	-2.5 to 2.5	Pass
				50	3.85	-6.337	-0.0089	-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	3.27	-4.549	-0.0065	-2.5 to 2.5	Pass
					3.85	-1.416	-0.0020	-2.5 to 2.5	Pass
					4.43	-2.360	-0.0034	-2.5 to 2.5	Pass
				-30	3.85	-4.005	-0.0057	-2.5 to 2.5	Pass
					-20	3.85	-1.545	-0.0022	-2.5 to 2.5
				-10	3.85	-2.661	-0.0038	-2.5 to 2.5	Pass
					0	3.85	-4.034	-0.0058	-2.5 to 2.5
				10	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
					30	3.85	-1.502	-0.0021	-2.5 to 2.5
				40	3.85	-4.449	-0.0063	-2.5 to 2.5	Pass
					50	3.85	-2.174	-0.0031	-2.5 to 2.5
				707.5	25	0	20	3.27	2.446
	3.85	-4.063	-0.0057					-2.5 to 2.5	Pass
	4.43	-2.189	-0.0031					-2.5 to 2.5	Pass
	-30	3.85	-1.144				-0.0016	-2.5 to 2.5	Pass
		-20	3.85				-0.644	-0.0009	-2.5 to 2.5
	-10	3.85	-3.848				-0.0054	-2.5 to 2.5	Pass
		0	3.85				0.057	0.0001	-2.5 to 2.5
	10	3.85	-1.903				-0.0027	-2.5 to 2.5	Pass
		30	3.85				0.215	0.0003	-2.5 to 2.5
	40	3.85	-0.415				-0.0006	-2.5 to 2.5	Pass
		50	3.85				-1.616	-0.0023	-2.5 to 2.5
	713.5	25	0				20	3.27	-0.329
				3.85	-5.193	-0.0073		-2.5 to 2.5	Pass
				4.43	-3.648	-0.0051		-2.5 to 2.5	Pass
				-30	3.85	-3.777	-0.0053	-2.5 to 2.5	Pass
					-20	3.85	-1.845	-0.0026	-2.5 to 2.5
				-10	3.85	-2.546	-0.0036	-2.5 to 2.5	Pass
					0	3.85	-2.689	-0.0038	-2.5 to 2.5
				10	3.85	-2.890	-0.0041	-2.5 to 2.5	Pass
30					3.85	-5.364	-0.0075	-2.5 to 2.5	Pass
40				3.85	-3.405	-0.0048	-2.5 to 2.5	Pass	
				50	3.85	-3.905	-0.0055	-2.5 to 2.5	Pass
16QAM				701.5	25	0	20	3.27	1.659
	3.85	-3.633	-0.0052					-2.5 to 2.5	Pass
	4.43	-3.119	-0.0044					-2.5 to 2.5	Pass
	-30	3.85	-3.419				-0.0049	-2.5 to 2.5	Pass

	707.5	25	0	-20	3.85	-2.890	-0.0041	-2.5 to 2.5	Pass			
				-10	3.85	-4.392	-0.0063	-2.5 to 2.5	Pass			
				0	3.85	-1.473	-0.0021	-2.5 to 2.5	Pass			
				10	3.85	-3.390	-0.0048	-2.5 to 2.5	Pass			
				30	3.85	-2.718	-0.0039	-2.5 to 2.5	Pass			
				40	3.85	-1.788	-0.0025	-2.5 to 2.5	Pass			
				50	3.85	-3.333	-0.0048	-2.5 to 2.5	Pass			
	713.5	25	0	20	3.27	-2.003	-0.0028	-2.5 to 2.5	Pass			
					3.85	-1.144	-0.0016	-2.5 to 2.5	Pass			
					4.43	-1.788	-0.0025	-2.5 to 2.5	Pass			
				-30	3.85	0.615	0.0009	-2.5 to 2.5	Pass			
				-20	3.85	-2.904	-0.0041	-2.5 to 2.5	Pass			
				-10	3.85	-1.445	-0.0020	-2.5 to 2.5	Pass			
				0	3.85	1.330	0.0019	-2.5 to 2.5	Pass			
				10	3.85	-3.748	-0.0053	-2.5 to 2.5	Pass			
				30	3.85	-3.505	-0.0050	-2.5 to 2.5	Pass			
				40	3.85	-3.834	-0.0054	-2.5 to 2.5	Pass			
				50	3.85	-2.489	-0.0035	-2.5 to 2.5	Pass			
				713.5	25	0	20	3.27	-3.448	-0.0048	-2.5 to 2.5	Pass
								3.85	-3.262	-0.0046	-2.5 to 2.5	Pass
	4.43	-3.490	-0.0049					-2.5 to 2.5	Pass			
	-30	3.85	-2.317				-0.0032	-2.5 to 2.5	Pass			
	-20	3.85	-7.024				-0.0098	-2.5 to 2.5	Pass			
	-10	3.85	-3.476				-0.0049	-2.5 to 2.5	Pass			
	0	3.85	-1.602				-0.0022	-2.5 to 2.5	Pass			
	10	3.85	-1.931				-0.0027	-2.5 to 2.5	Pass			
	30	3.85	-3.991				-0.0056	-2.5 to 2.5	Pass			
40	3.85	-2.389	-0.0033				-2.5 to 2.5	Pass				
50	3.85	-5.665	-0.0079	-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	3.27	-4.063	-0.0058	-2.5 to 2.5	Pass
					3.85	-2.418	-0.0034	-2.5 to 2.5	Pass
					4.43	-2.890	-0.0041	-2.5 to 2.5	Pass
				-30	3.85	-2.847	-0.0040	-2.5 to 2.5	Pass
				-20	3.85	-2.418	-0.0034	-2.5 to 2.5	Pass
				-10	3.85	-3.505	-0.0050	-2.5 to 2.5	Pass
				0	3.85	-2.475	-0.0035	-2.5 to 2.5	Pass
				10	3.85	-3.533	-0.0050	-2.5 to 2.5	Pass
				30	3.85	-3.476	-0.0049	-2.5 to 2.5	Pass
				40	3.85	-2.332	-0.0033	-2.5 to 2.5	Pass
	50	3.85	-3.633	-0.0052	-2.5 to 2.5	Pass			
	707.5	50	0	20	3.27	-3.548	-0.0050	-2.5 to 2.5	Pass
					3.85	-3.190	-0.0045	-2.5 to 2.5	Pass
					4.43	-2.947	-0.0042	-2.5 to 2.5	Pass
				-30	3.85	-2.589	-0.0037	-2.5 to 2.5	Pass
				-20	3.85	-3.705	-0.0052	-2.5 to 2.5	Pass
				-10	3.85	-2.103	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-2.246	-0.0032	-2.5 to 2.5	Pass
				10	3.85	-3.905	-0.0055	-2.5 to 2.5	Pass
				30	3.85	-2.589	-0.0037	-2.5 to 2.5	Pass

	711	50	0	40	3.85	-4.306	-0.0061	-2.5 to 2.5	Pass
				50	3.85	-2.875	-0.0041	-2.5 to 2.5	Pass
				20	3.27	-4.363	-0.0061	-2.5 to 2.5	Pass
					3.85	-2.131	-0.0030	-2.5 to 2.5	Pass
					4.43	-1.831	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	-2.975	-0.0042	-2.5 to 2.5	Pass
				-20	3.85	-2.074	-0.0029	-2.5 to 2.5	Pass
				-10	3.85	-3.891	-0.0055	-2.5 to 2.5	Pass
				0	3.85	-2.174	-0.0031	-2.5 to 2.5	Pass
				10	3.85	-1.931	-0.0027	-2.5 to 2.5	Pass
				30	3.85	-3.805	-0.0054	-2.5 to 2.5	Pass
				40	3.85	-4.334	-0.0061	-2.5 to 2.5	Pass
				50	3.85	-3.376	-0.0047	-2.5 to 2.5	Pass
				16QAM	704	50	0	20	3.27
3.85	-2.232	-0.0032	-2.5 to 2.5						Pass
4.43	-3.605	-0.0051	-2.5 to 2.5						Pass
-30	3.85	-4.048	-0.0058					-2.5 to 2.5	Pass
-20	3.85	-3.061	-0.0043					-2.5 to 2.5	Pass
-10	3.85	-4.206	-0.0060					-2.5 to 2.5	Pass
0	3.85	-2.875	-0.0041					-2.5 to 2.5	Pass
10	3.85	-2.675	-0.0038					-2.5 to 2.5	Pass
30	3.85	-3.476	-0.0049					-2.5 to 2.5	Pass
40	3.85	-2.346	-0.0033					-2.5 to 2.5	Pass
50	3.85	-3.462	-0.0049		-2.5 to 2.5	Pass			
707.5	50	0	20		3.27	-3.119	-0.0044	-2.5 to 2.5	Pass
					3.85	-5.350	-0.0076	-2.5 to 2.5	Pass
					4.43	-2.103	-0.0030	-2.5 to 2.5	Pass
			-30		3.85	-3.433	-0.0049	-2.5 to 2.5	Pass
			-20		3.85	-0.801	-0.0011	-2.5 to 2.5	Pass
			-10		3.85	-2.375	-0.0034	-2.5 to 2.5	Pass
			0		3.85	-0.873	-0.0012	-2.5 to 2.5	Pass
			10		3.85	-3.104	-0.0044	-2.5 to 2.5	Pass
			30		3.85	-0.787	-0.0011	-2.5 to 2.5	Pass
			40		3.85	-3.748	-0.0053	-2.5 to 2.5	Pass
50	3.85	-2.017	-0.0029		-2.5 to 2.5	Pass			
711	50	0	20		3.27	-4.363	-0.0061	-2.5 to 2.5	Pass
					3.85	-1.588	-0.0022	-2.5 to 2.5	Pass
				4.43	-2.418	-0.0034	-2.5 to 2.5	Pass	
			-30	3.85	-1.631	-0.0023	-2.5 to 2.5	Pass	
			-20	3.85	-1.531	-0.0022	-2.5 to 2.5	Pass	
			-10	3.85	-2.031	-0.0029	-2.5 to 2.5	Pass	
			0	3.85	-1.845	-0.0026	-2.5 to 2.5	Pass	
			10	3.85	-1.874	-0.0026	-2.5 to 2.5	Pass	
			30	3.85	-2.117	-0.0030	-2.5 to 2.5	Pass	
			40	3.85	-1.888	-0.0027	-2.5 to 2.5	Pass	
50	3.85	-1.431	-0.0020	-2.5 to 2.5	Pass				

3. Modulation Characteristics

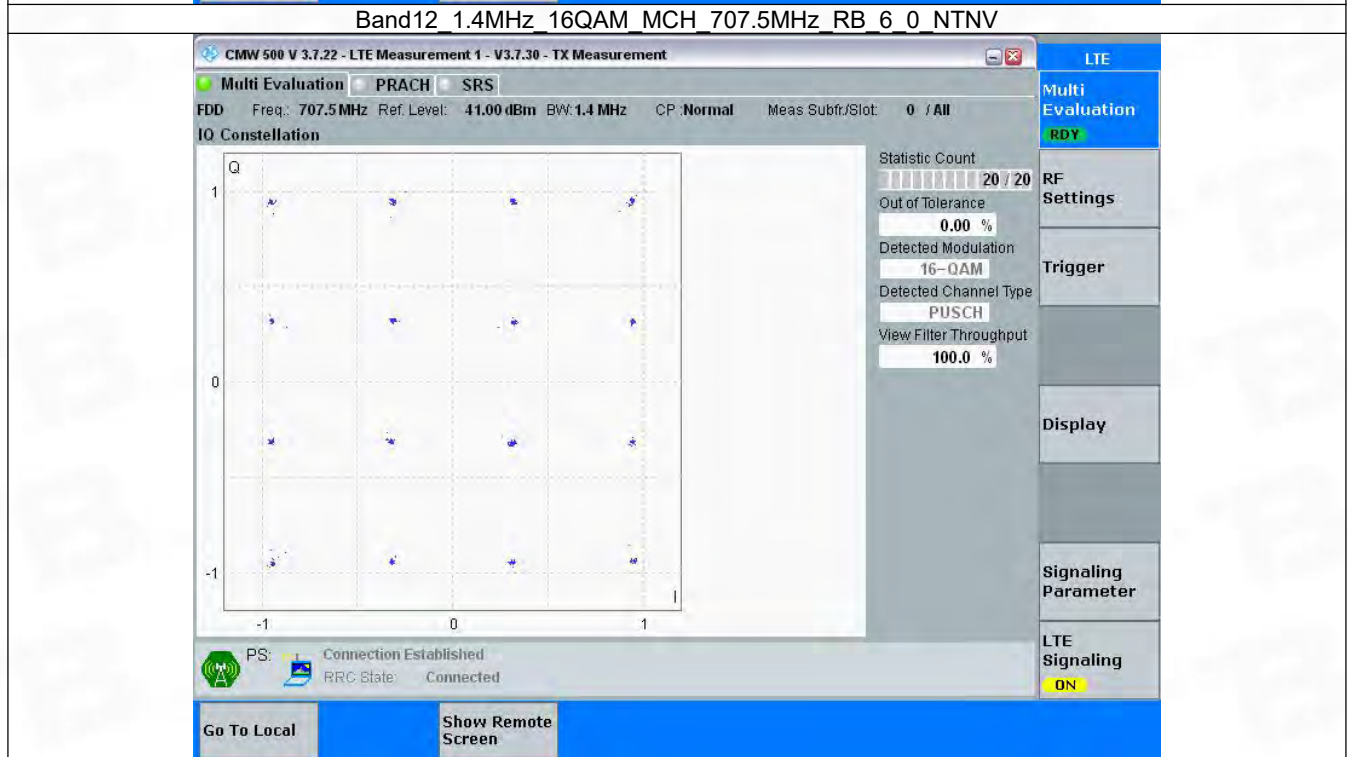
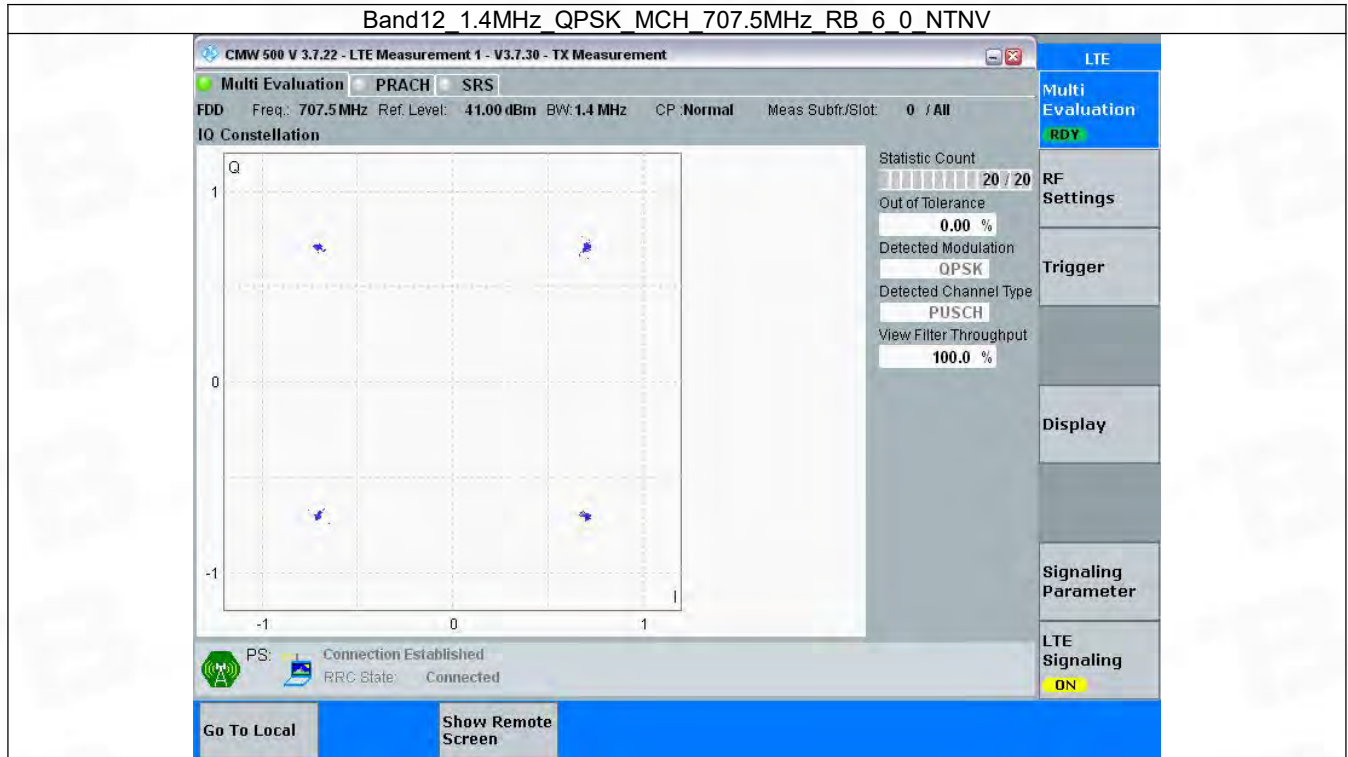
3.1 B12_1.4MHz

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

3.1.2 Test Graph

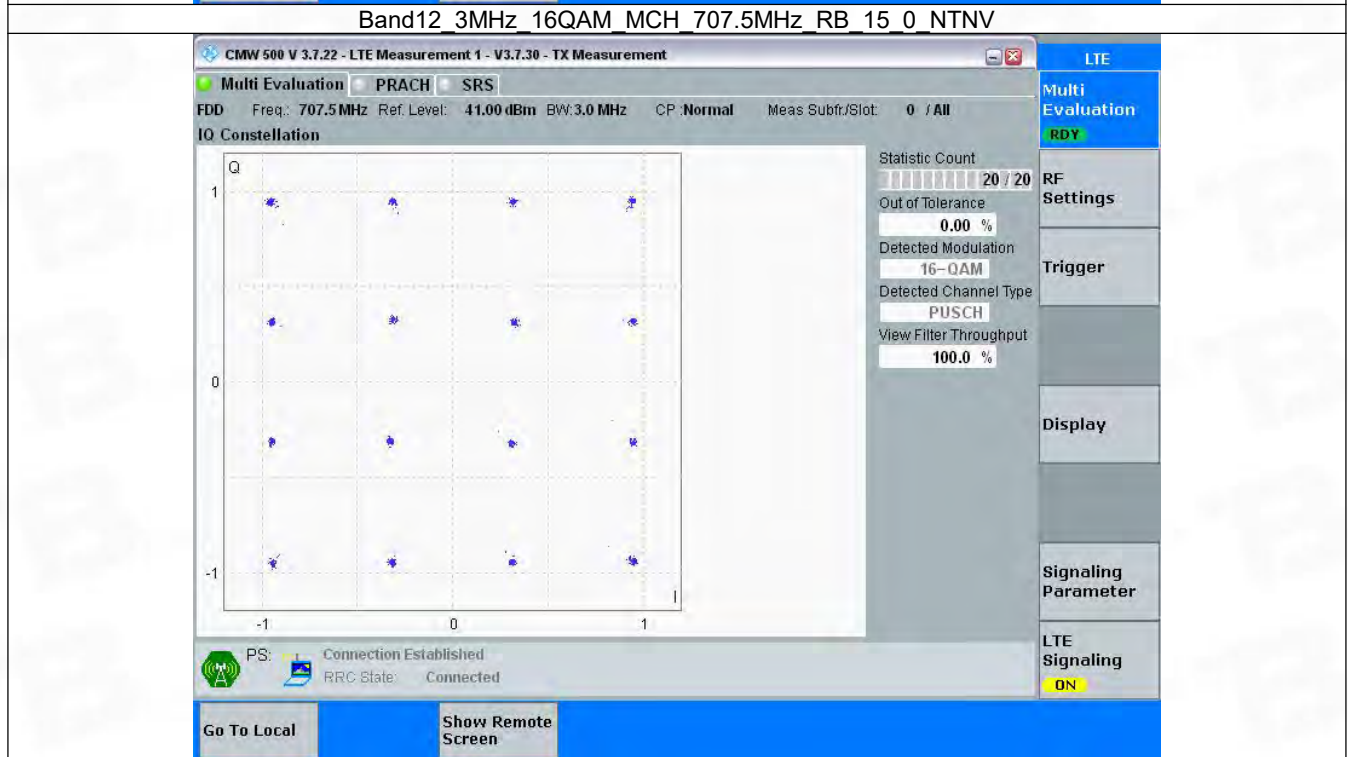
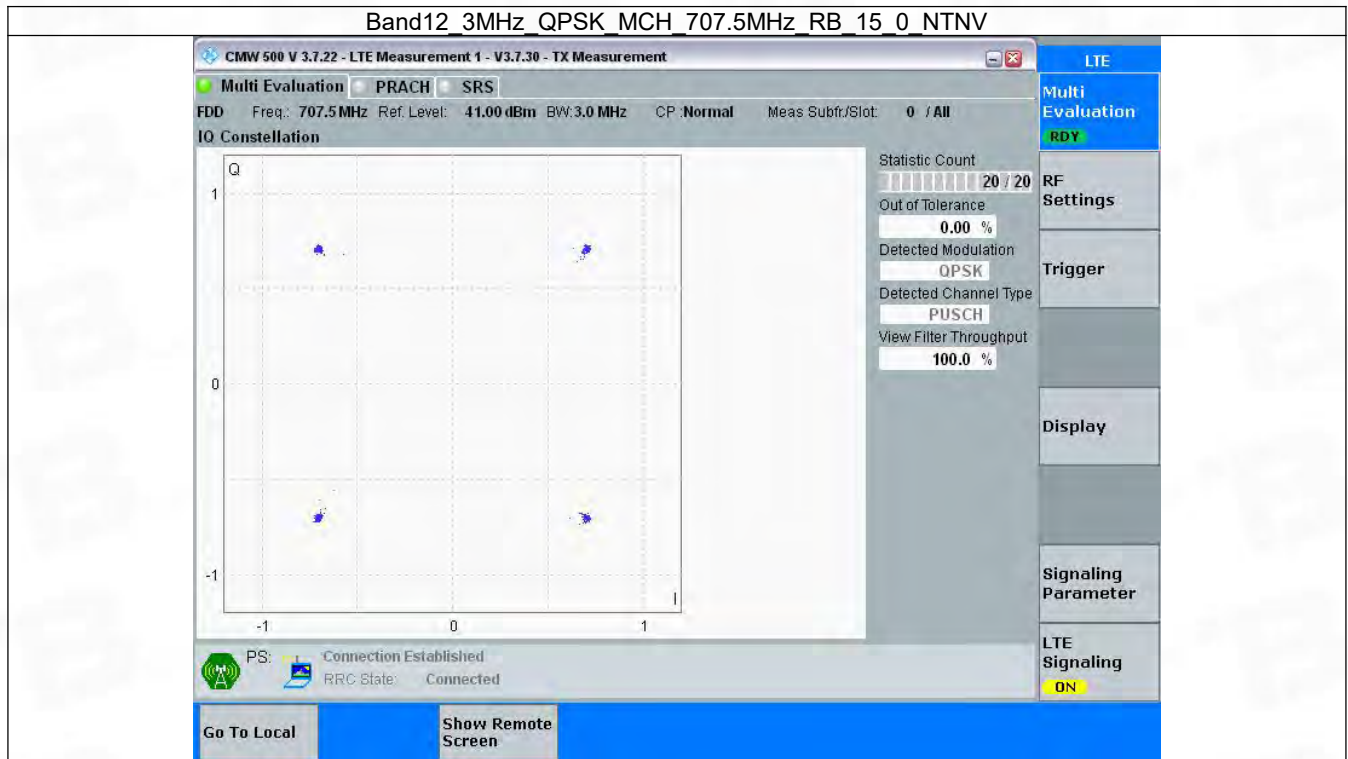


3.2 B12_3MHz

3.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTV						
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

3.2.2 Test Graph

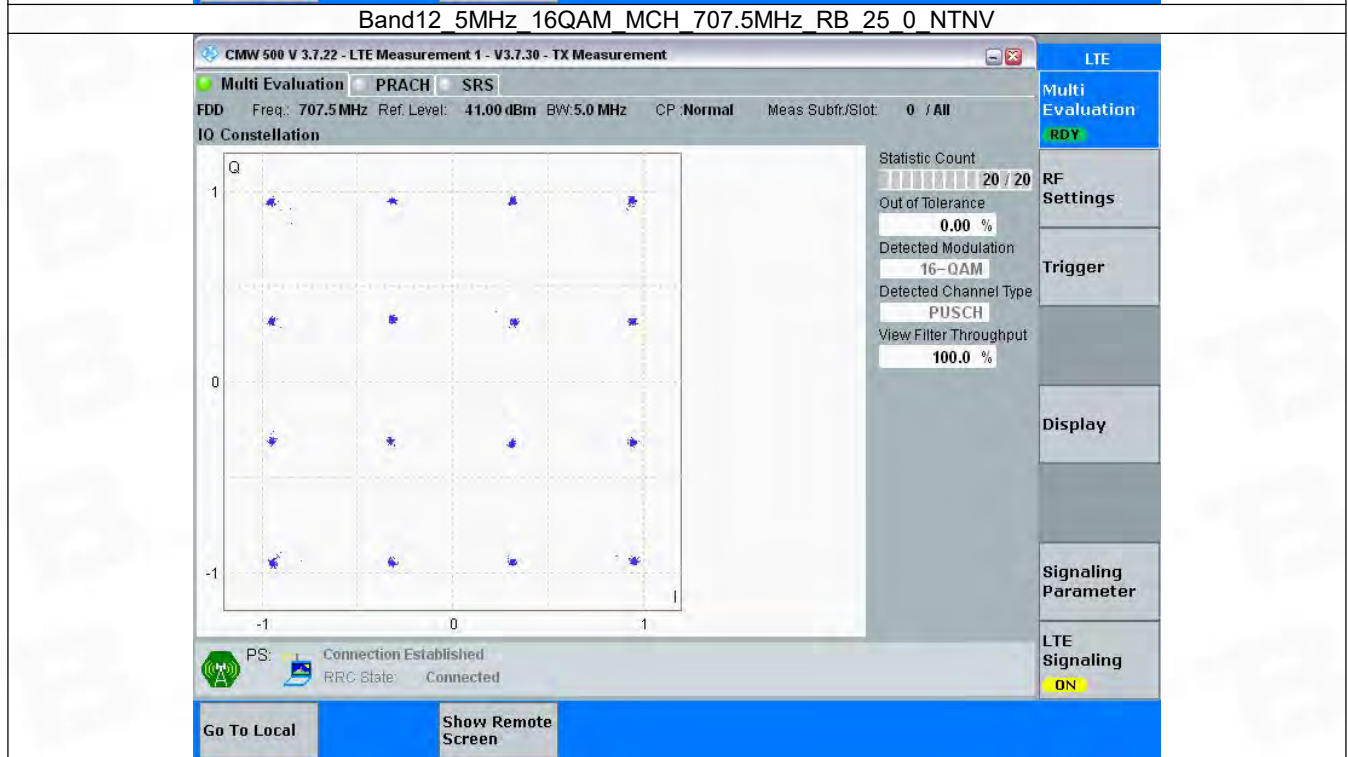
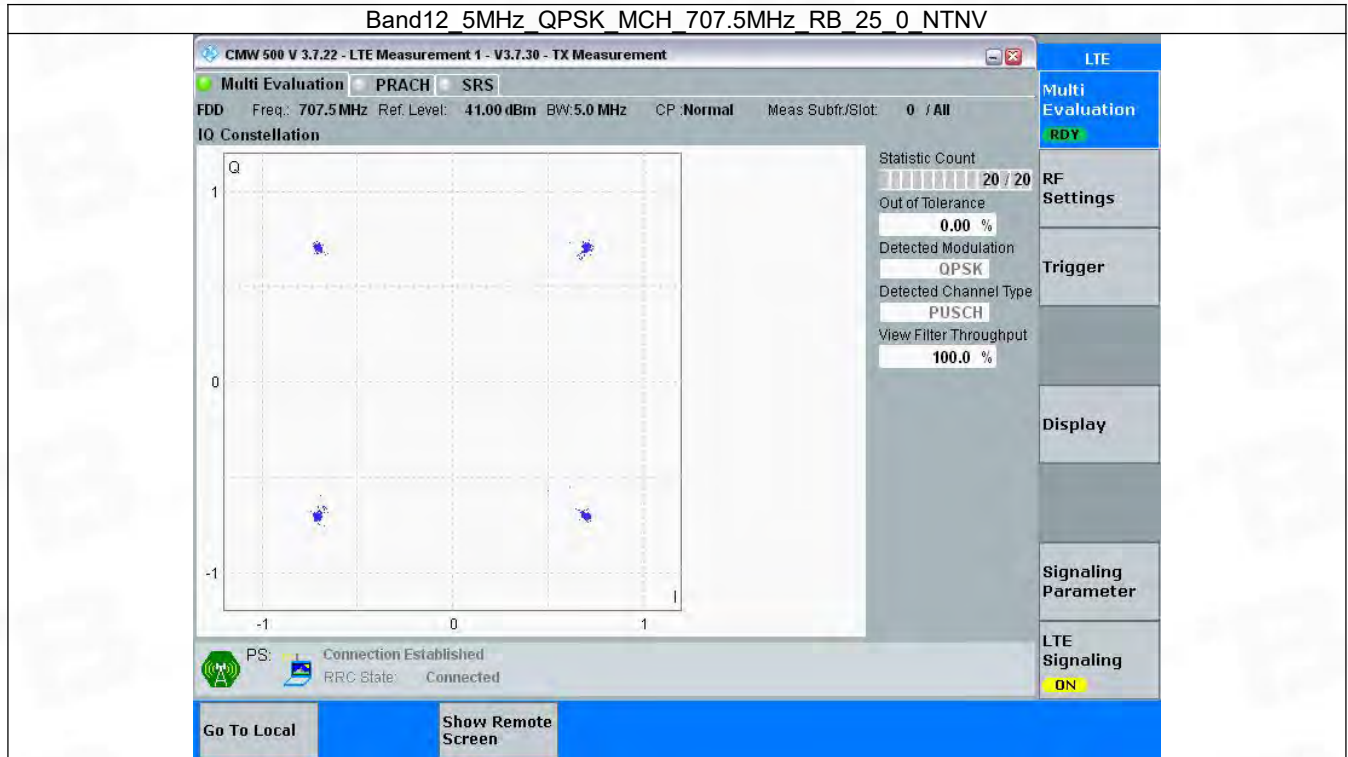


3.3 B12_5MHz

3.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTV						
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

3.3.2 Test Graph

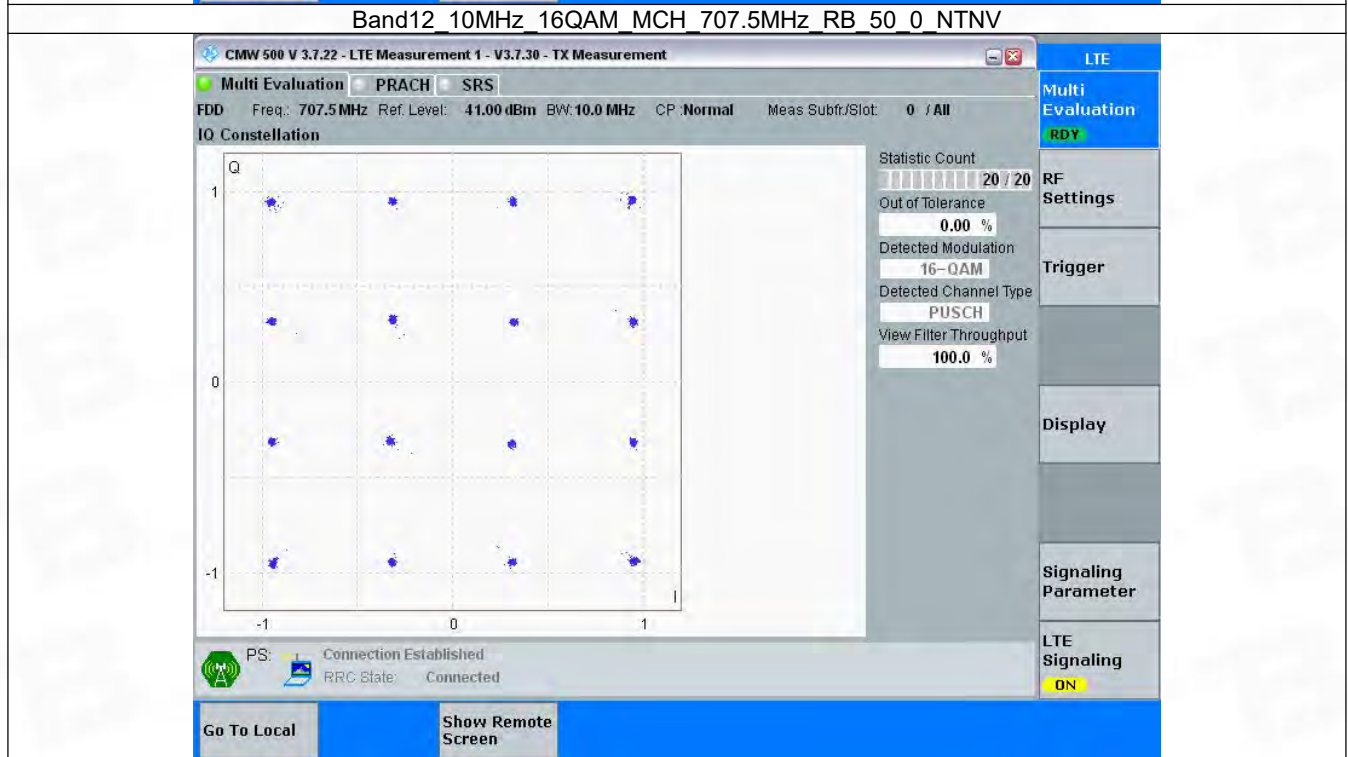
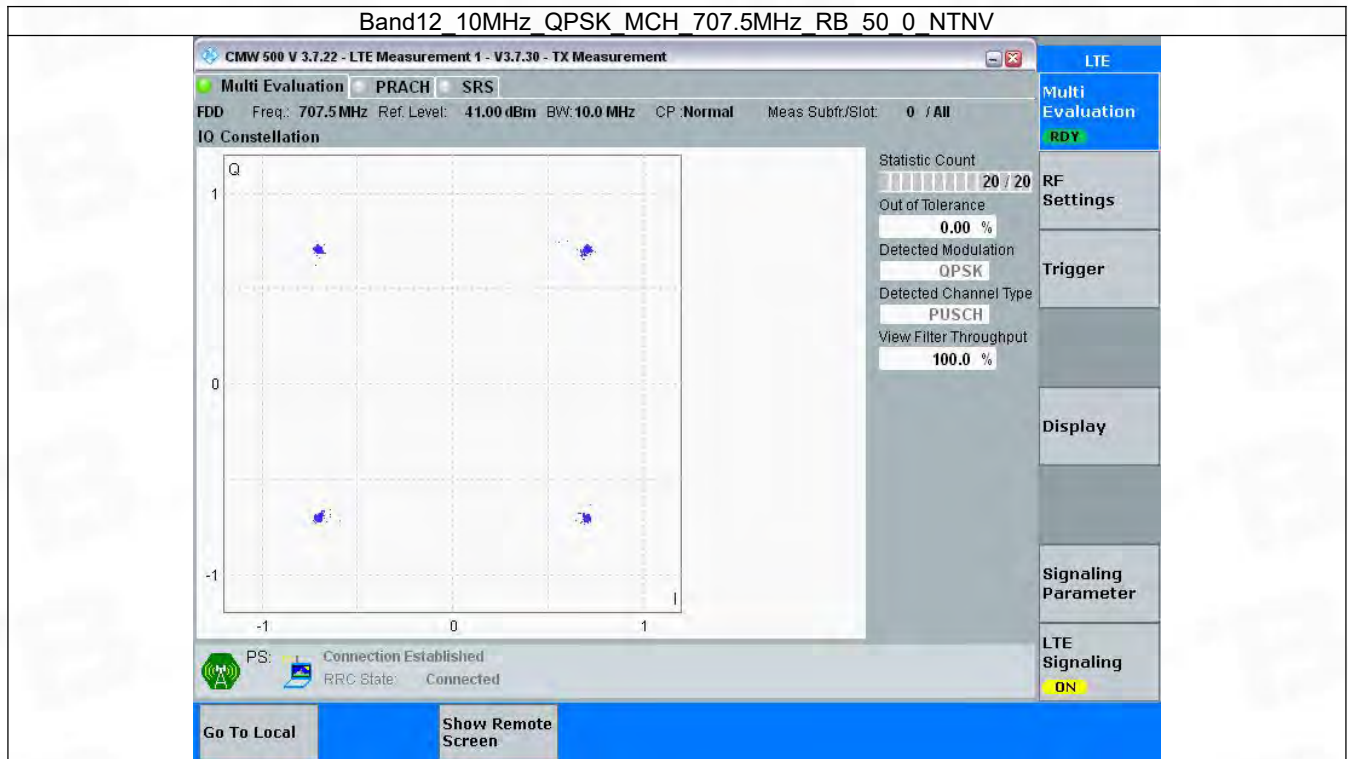


3.4 B12_10MHz

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

3.4.2 Test Graph



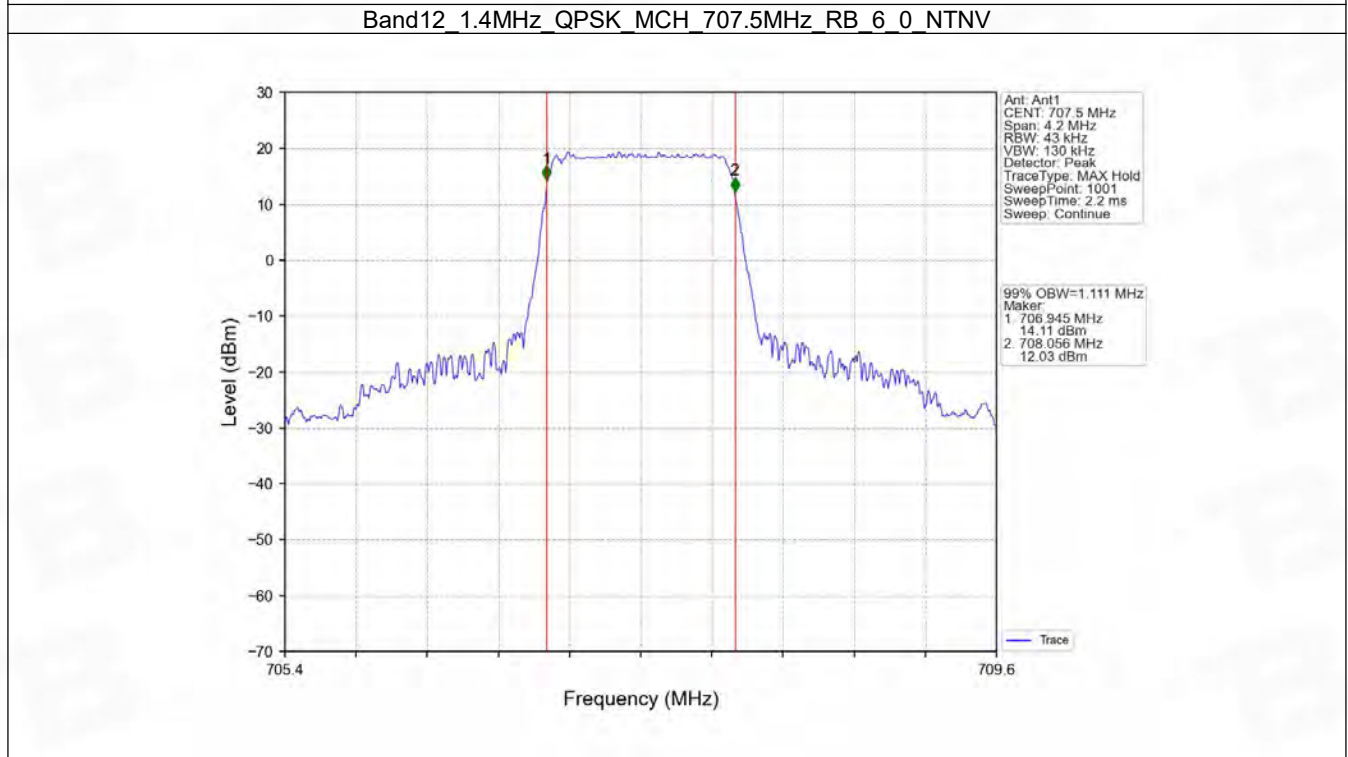
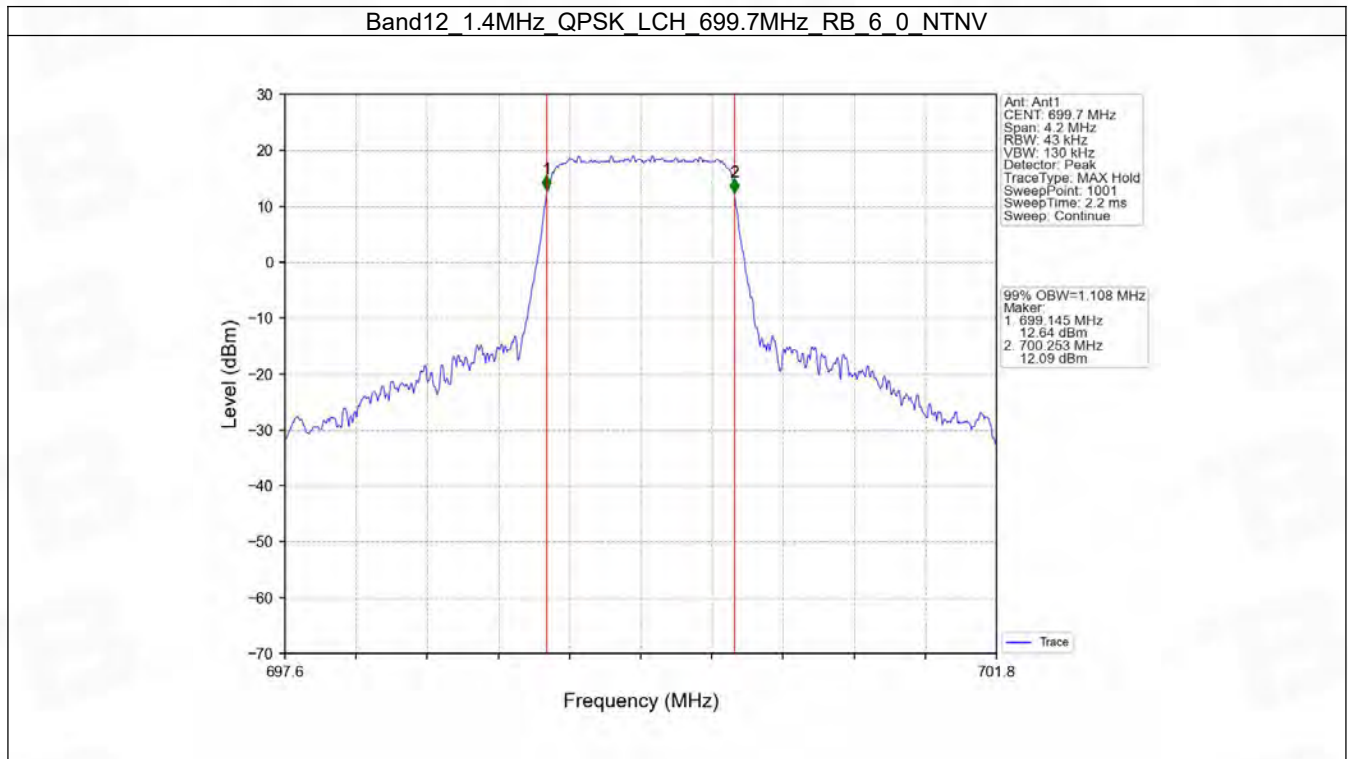
4. 99% & 26dB Bandwidth

4.1 Band12_OBW

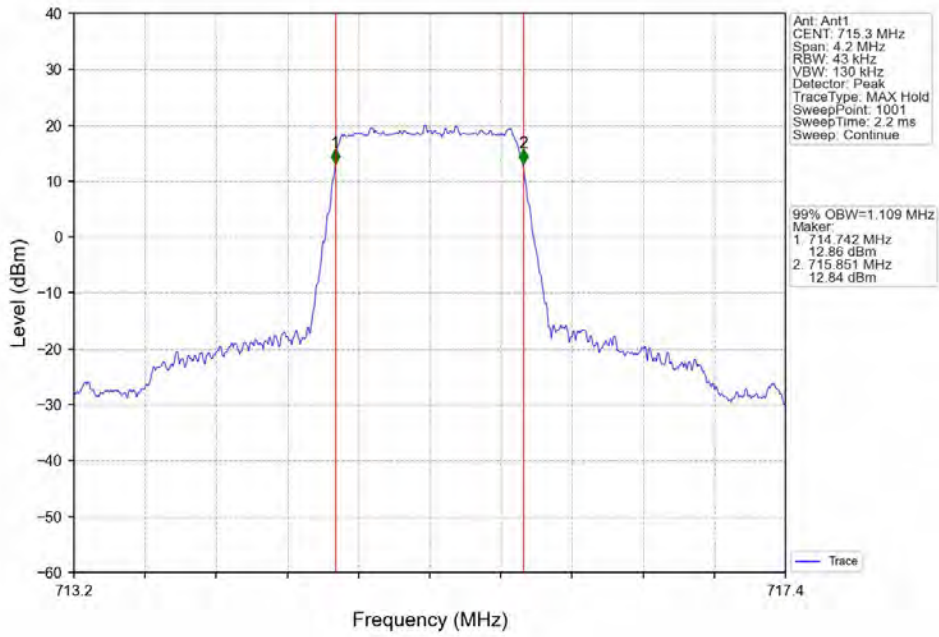
4.1.1 Test Result

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.108	/	Pass
		707.5	6	0	1.111	/	Pass
		715.3	6	0	1.109	/	Pass
	16QAM	699.7	6	0	1.108	/	Pass
		707.5	6	0	1.114	/	Pass
		715.3	6	0	1.109	/	Pass
3	QPSK	700.5	15	0	2.721	/	Pass
		707.5	15	0	2.719	/	Pass
		714.5	15	0	2.732	/	Pass
	16QAM	700.5	15	0	2.720	/	Pass
		707.5	15	0	2.722	/	Pass
		714.5	15	0	2.729	/	Pass
5	QPSK	701.5	25	0	4.586	/	Pass
		707.5	25	0	4.560	/	Pass
		713.5	25	0	4.544	/	Pass
	16QAM	701.5	25	0	4.535	/	Pass
		707.5	25	0	4.542	/	Pass
		713.5	25	0	4.561	/	Pass
10	QPSK	704	50	0	9.060	/	Pass
		707.5	50	0	9.017	/	Pass
		711	50	0	9.040	/	Pass
	16QAM	704	50	0	9.048	/	Pass
		707.5	50	0	9.029	/	Pass
		711	50	0	9.058	/	Pass

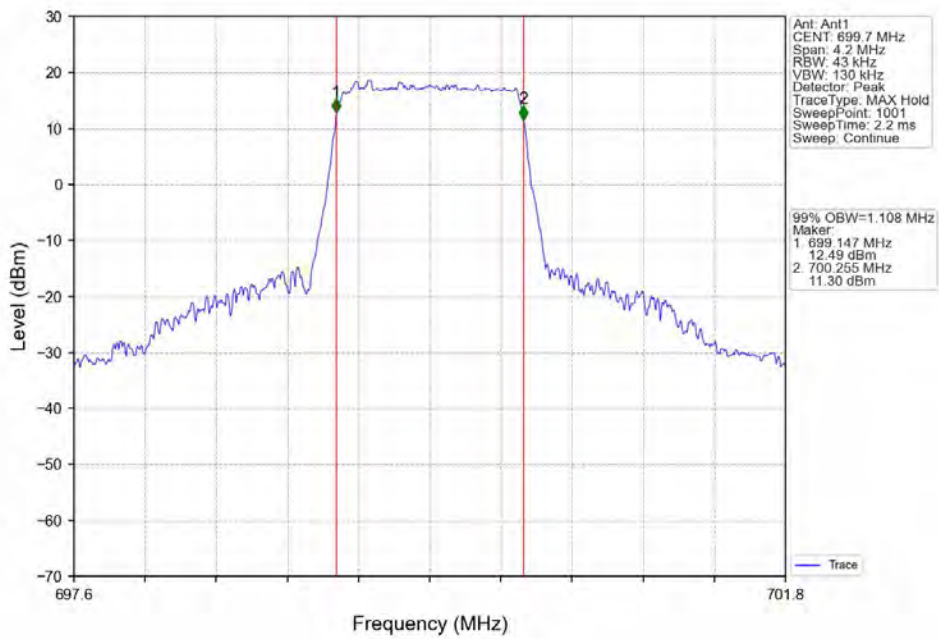
4.1.2 Test Graph



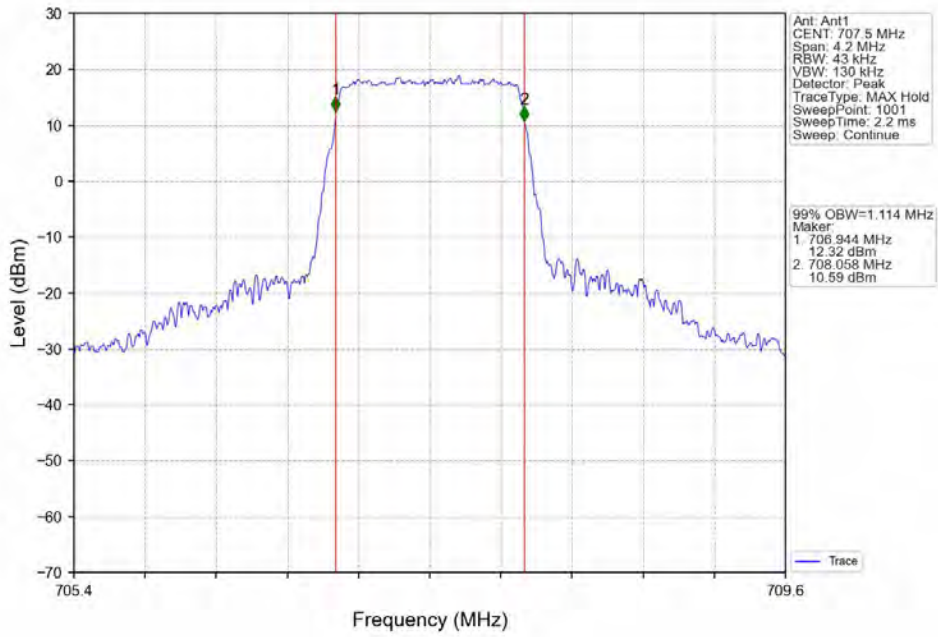
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



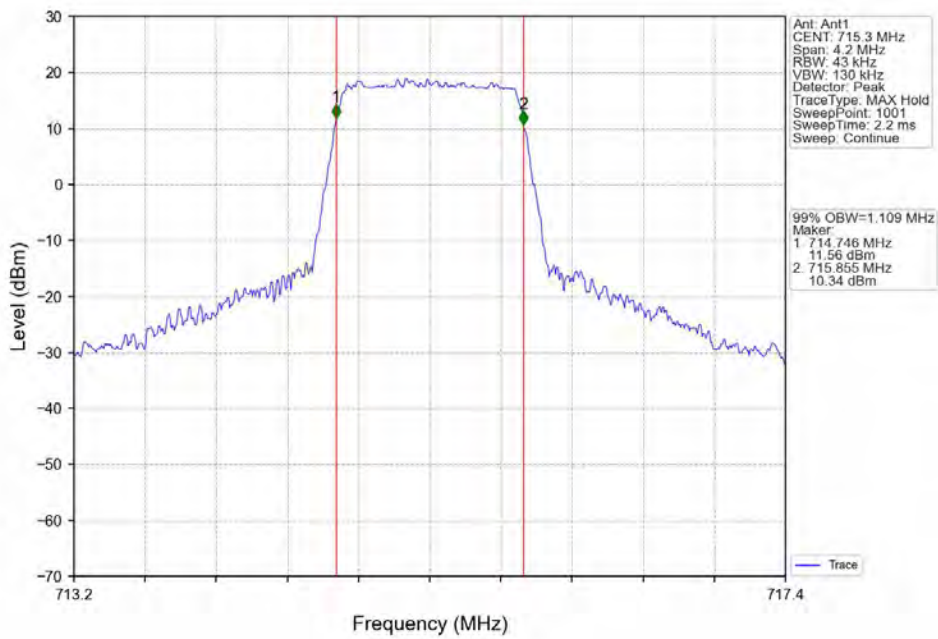
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



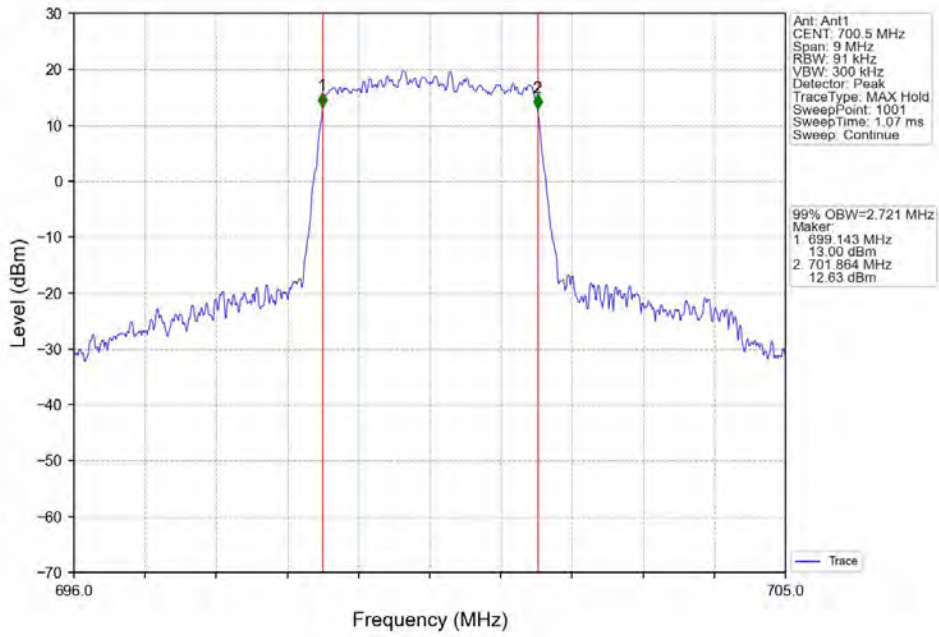
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTN



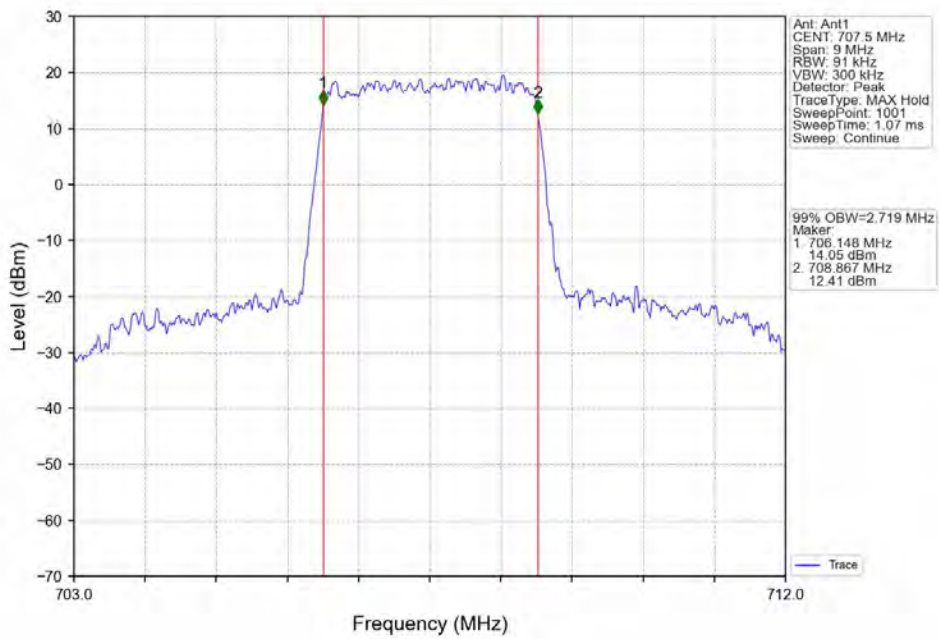
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTN



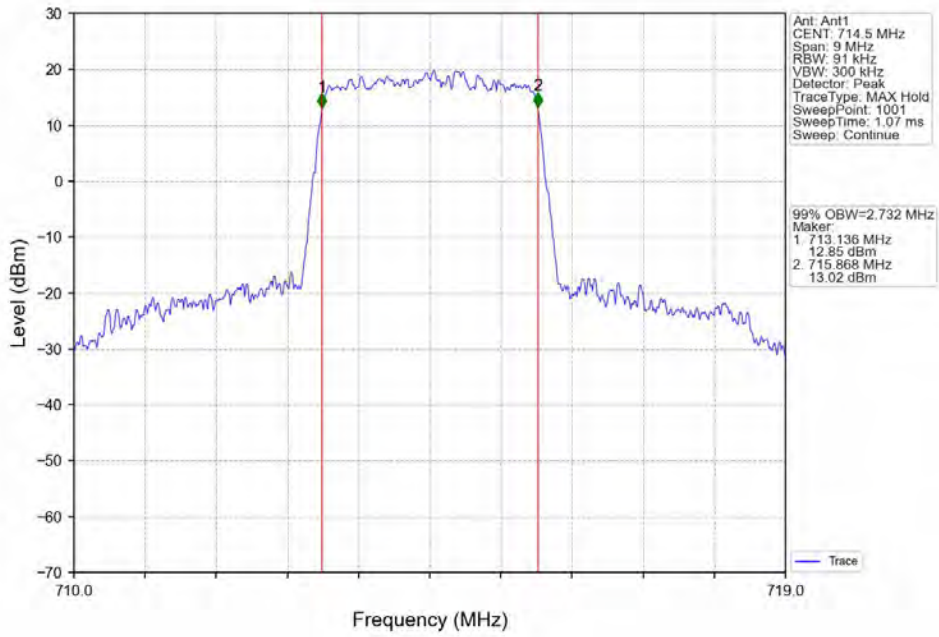
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



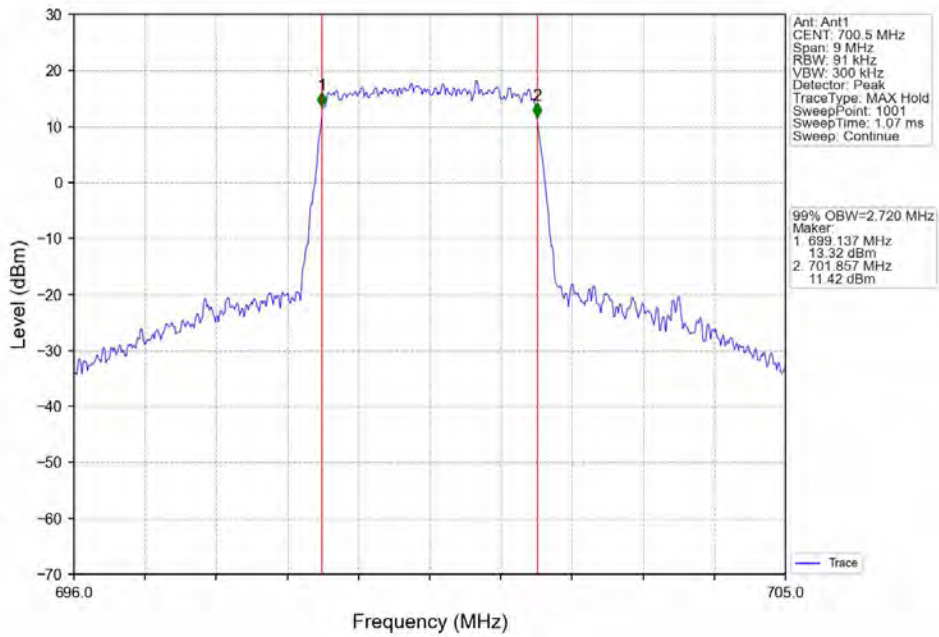
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



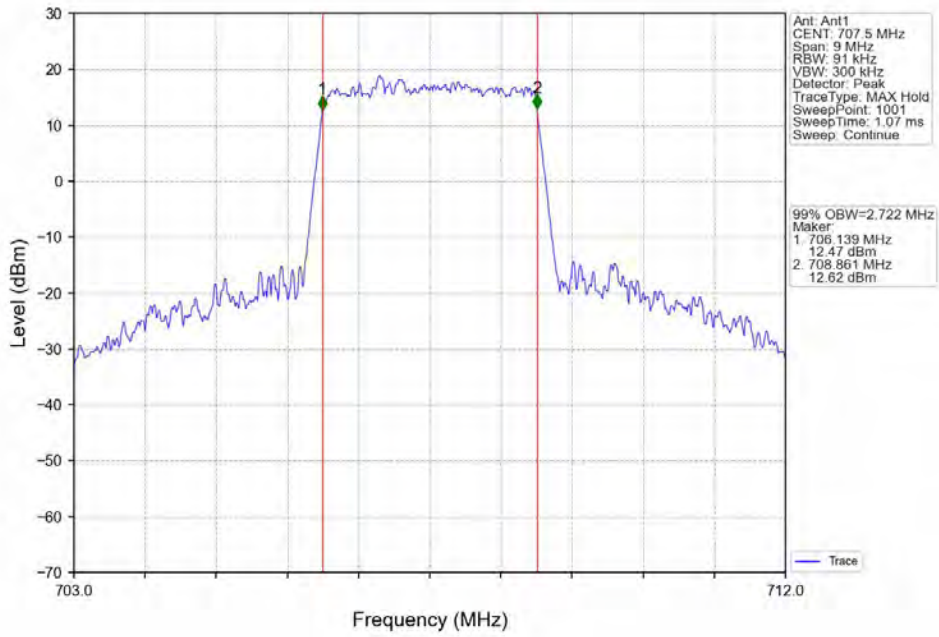
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



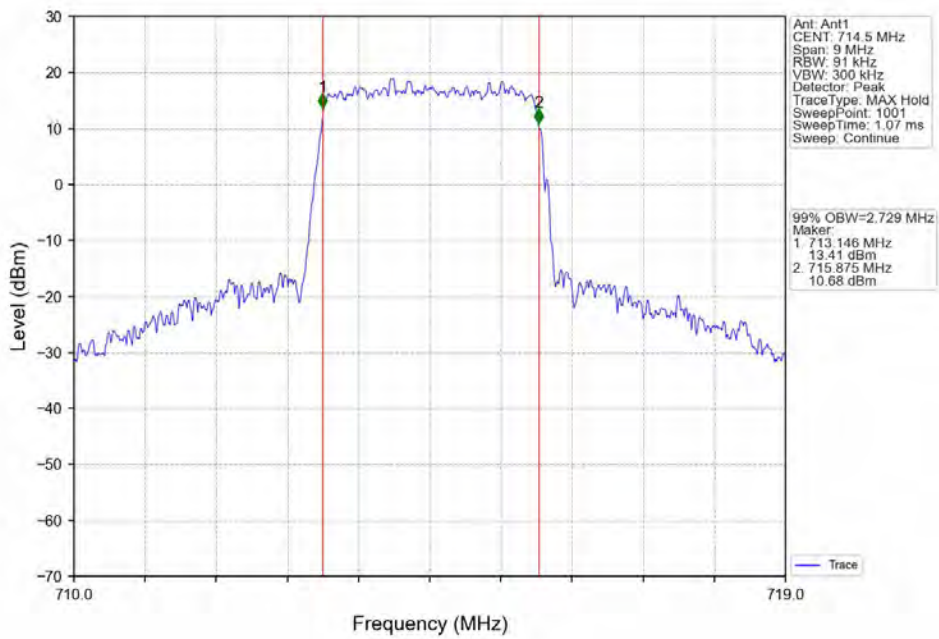
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



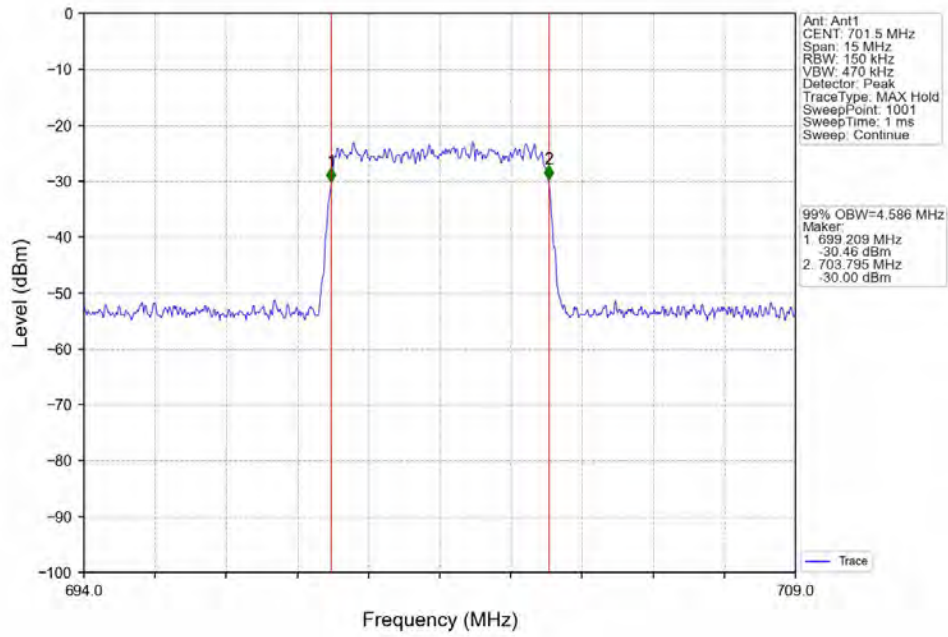
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



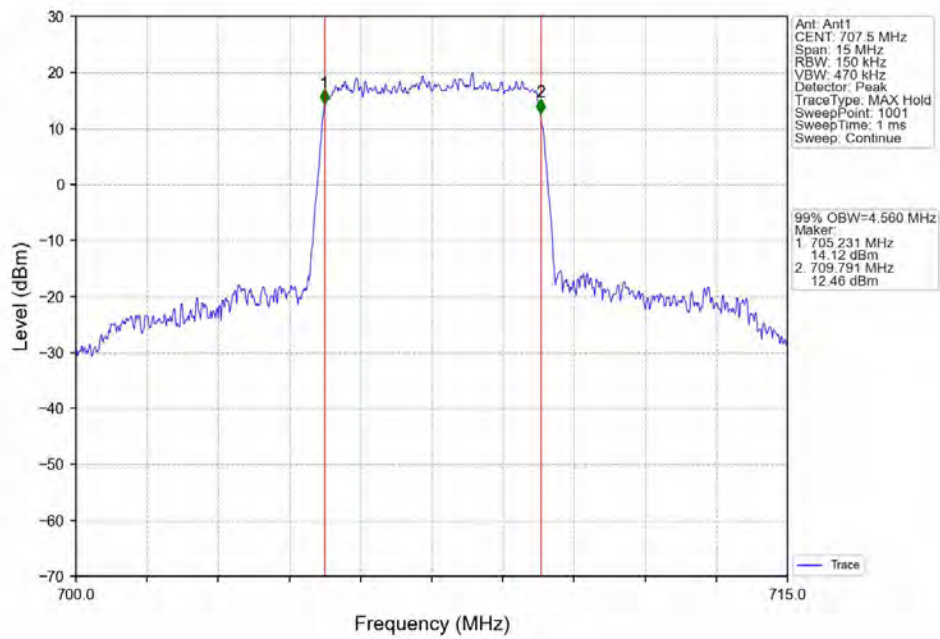
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



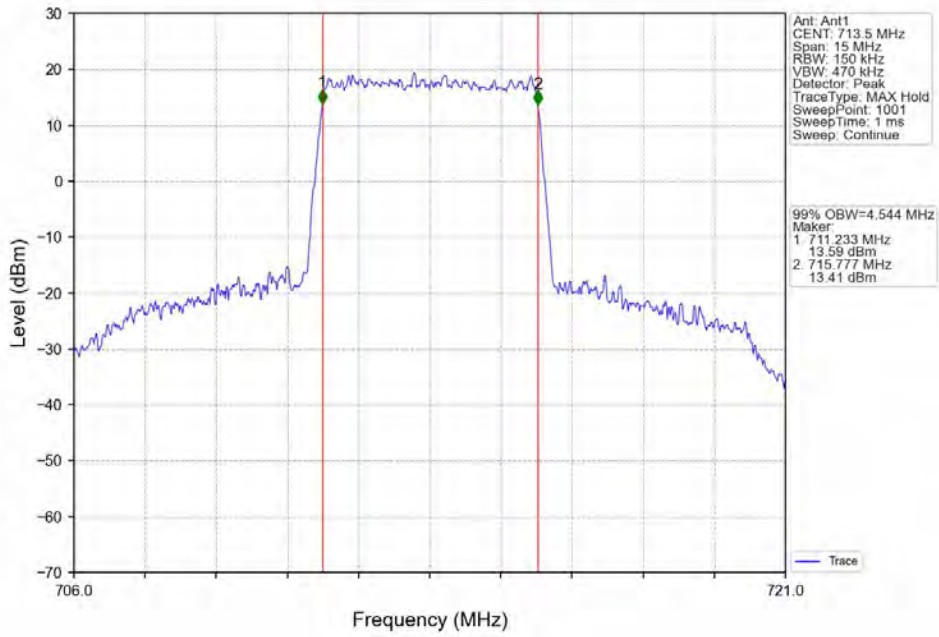
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



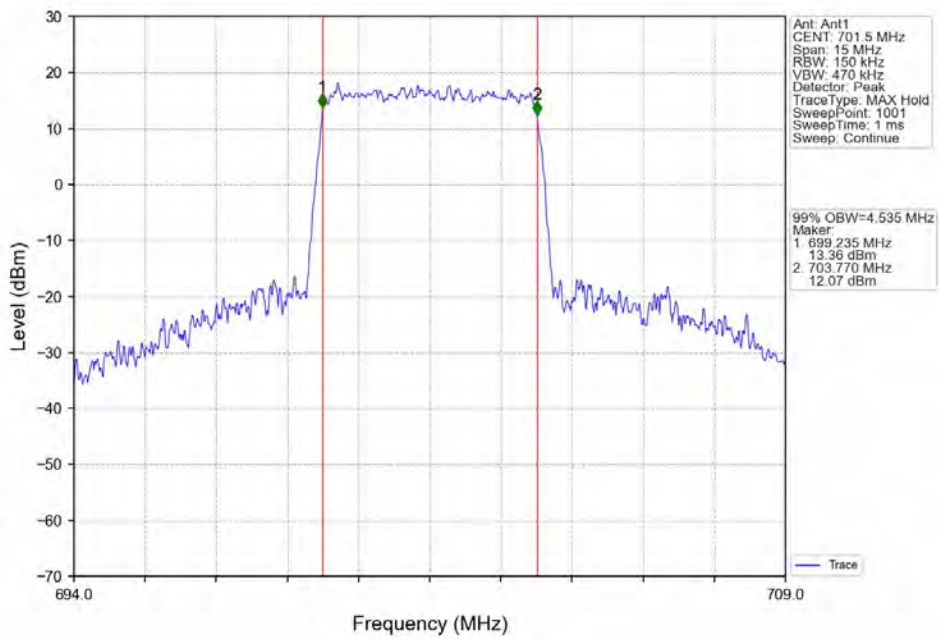
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



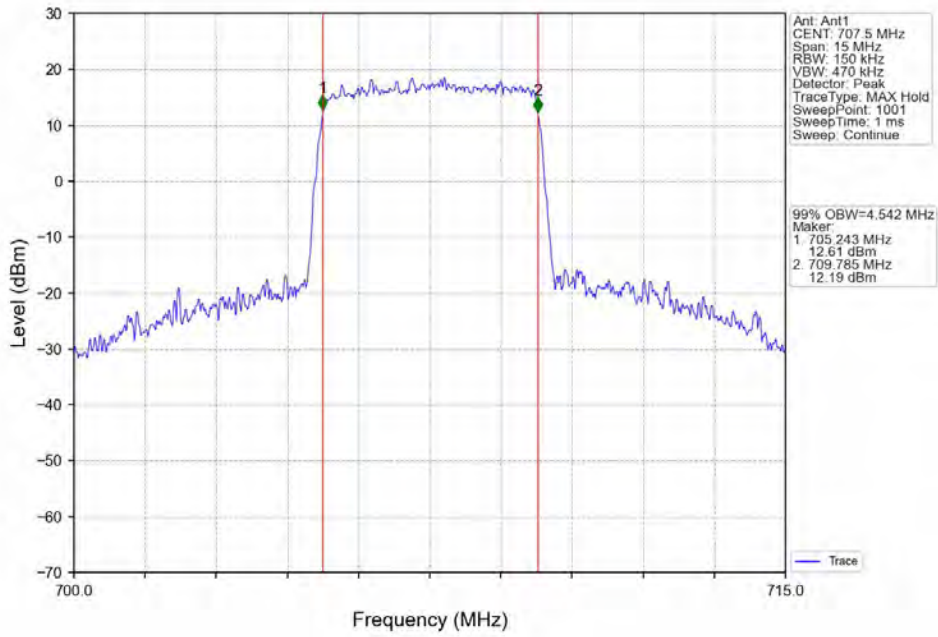
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



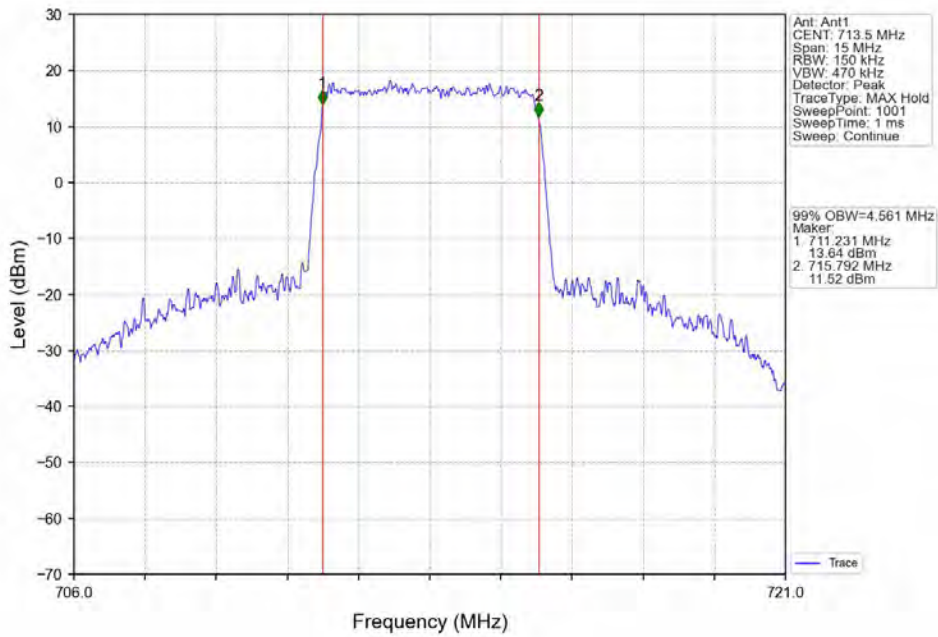
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



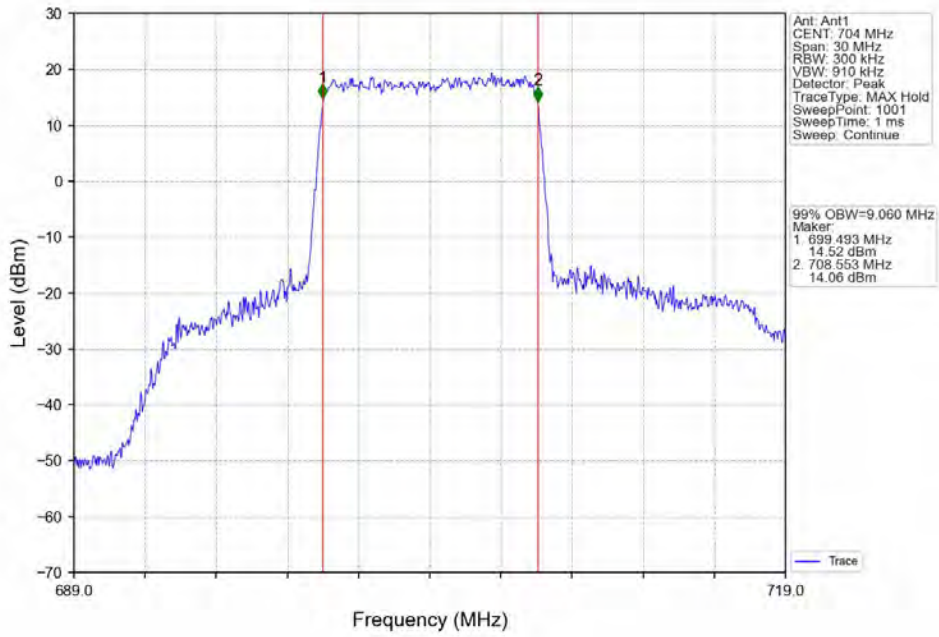
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



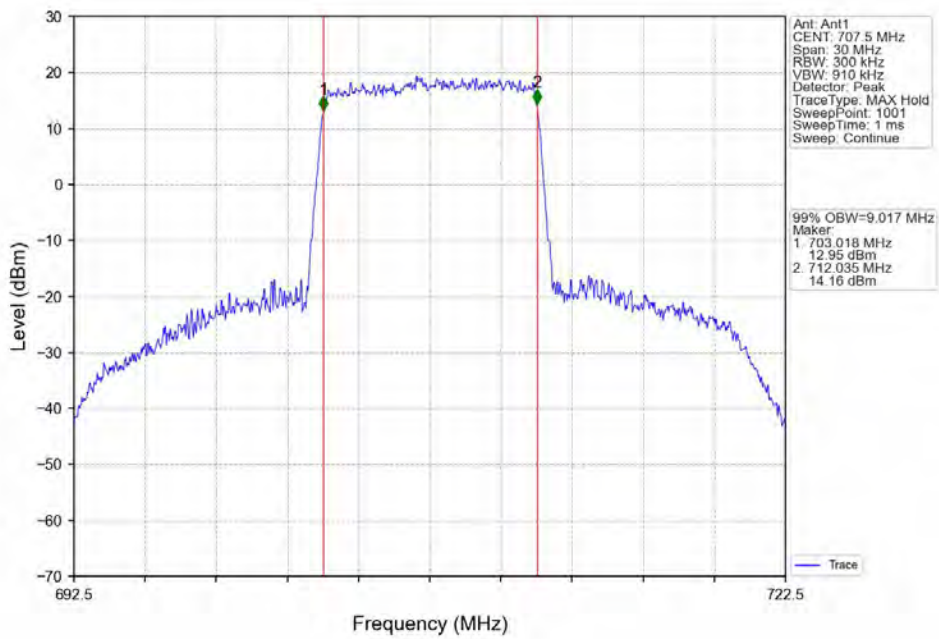
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



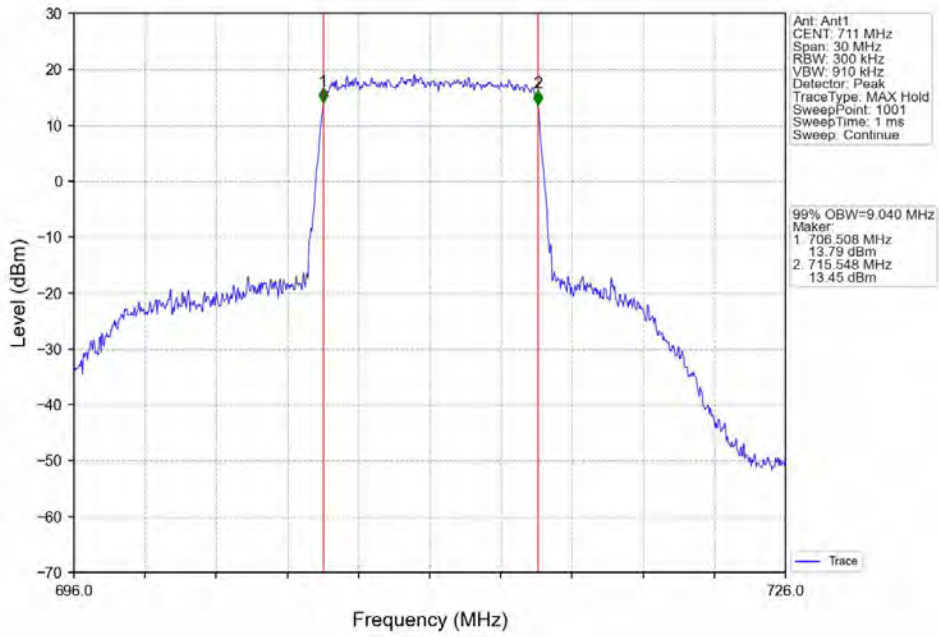
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



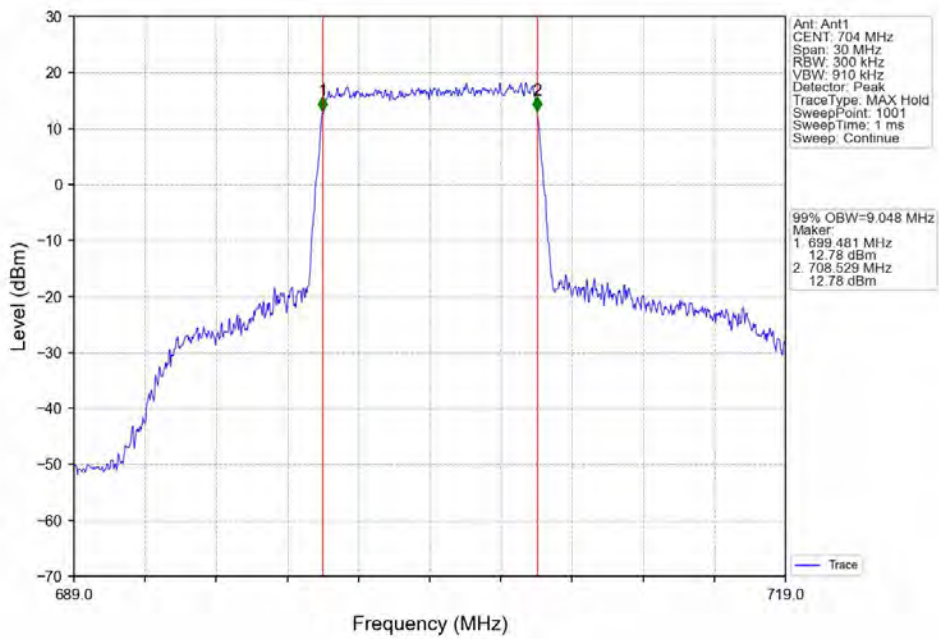
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



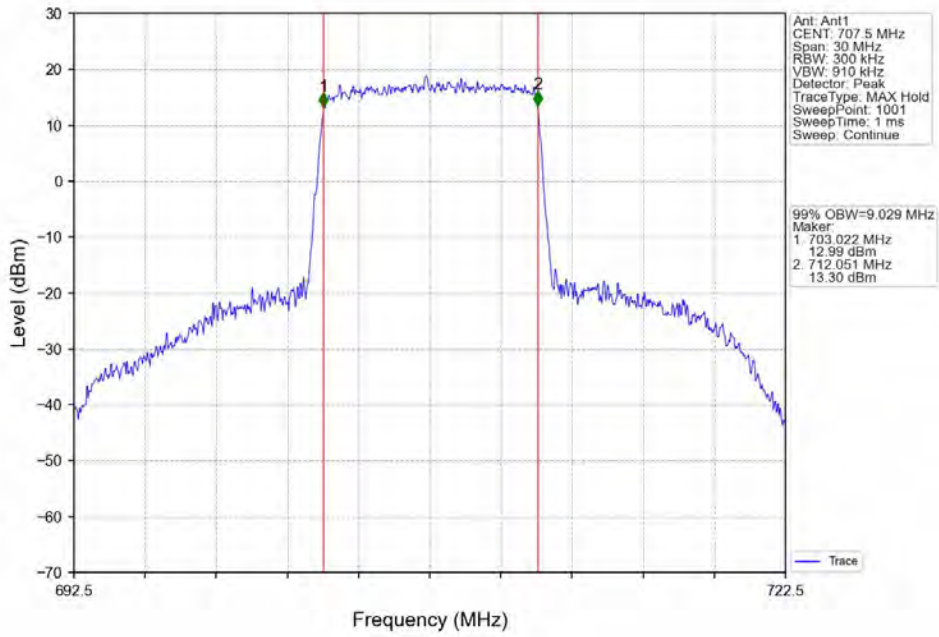
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



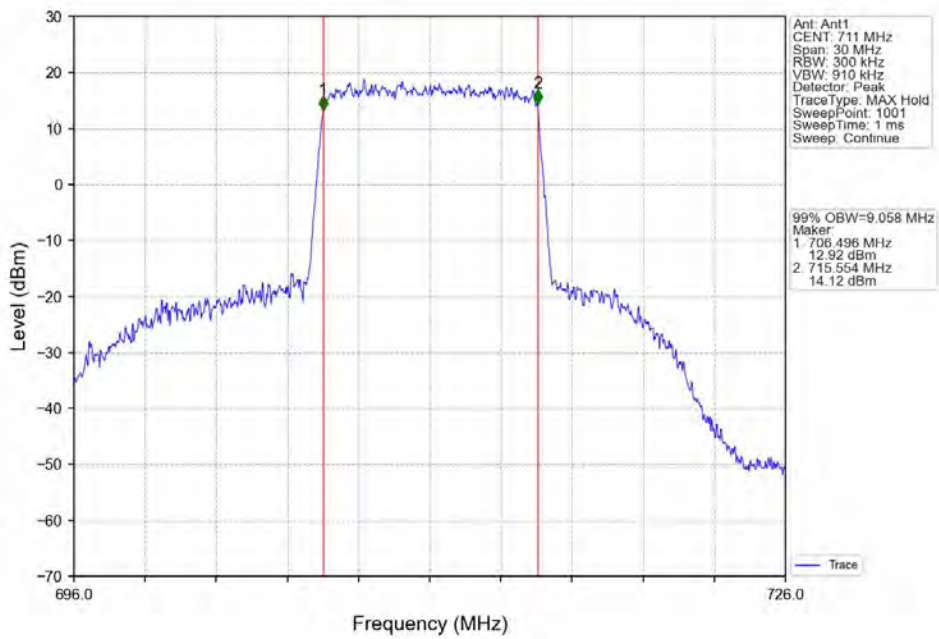
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

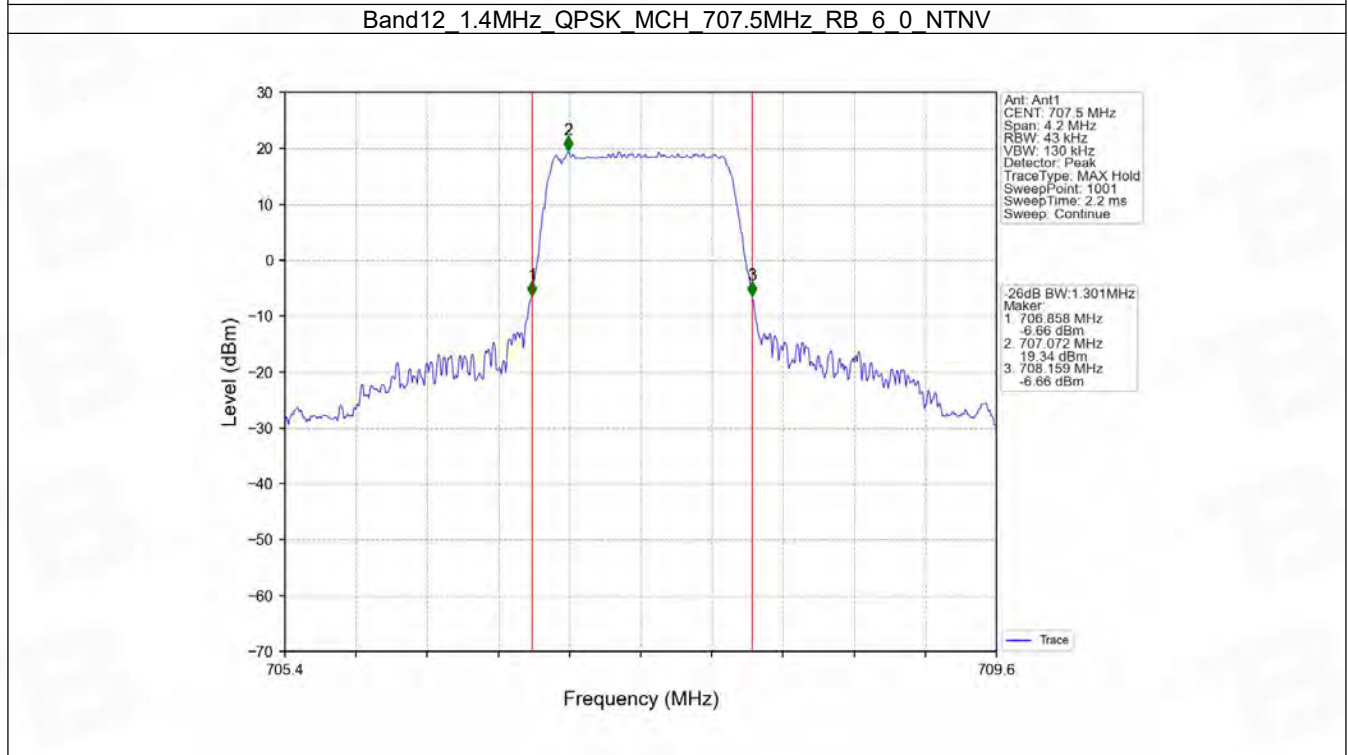
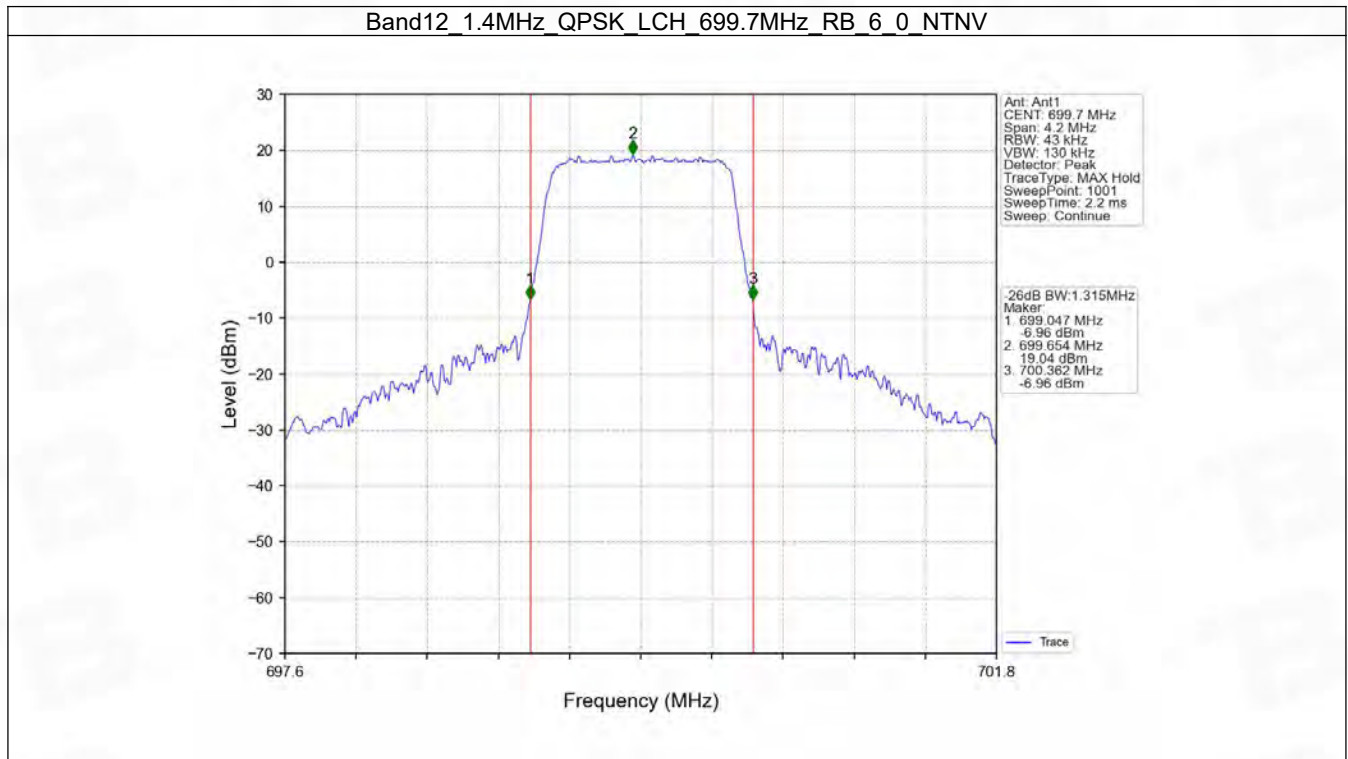


4.2 Band12_XDB

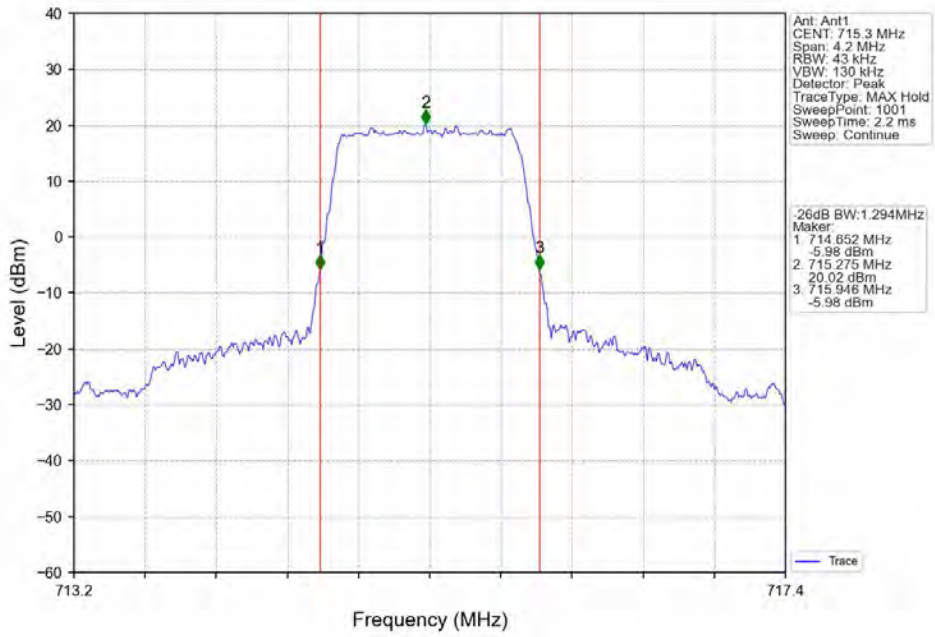
4.2.1 Test Result

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.315	/	Pass
		707.5	6	0	1.301	/	Pass
		715.3	6	0	1.294	/	Pass
	16QAM	699.7	6	0	1.287	/	Pass
		707.5	6	0	1.315	/	Pass
		715.3	6	0	1.308	/	Pass
3	QPSK	700.5	15	0	3.023	/	Pass
		707.5	15	0	3.027	/	Pass
		714.5	15	0	3.062	/	Pass
	16QAM	700.5	15	0	3.036	/	Pass
		707.5	15	0	3.043	/	Pass
		714.5	15	0	3.042	/	Pass
5	QPSK	701.5	25	0	4.983	/	Pass
		707.5	25	0	4.992	/	Pass
		713.5	25	0	4.996	/	Pass
	16QAM	701.5	25	0	4.986	/	Pass
		707.5	25	0	4.987	/	Pass
		713.5	25	0	5.020	/	Pass
10	QPSK	704	50	0	9.921	/	Pass
		707.5	50	0	9.857	/	Pass
		711	50	0	9.900	/	Pass
	16QAM	704	50	0	9.913	/	Pass
		707.5	50	0	9.852	/	Pass
		711	50	0	9.887	/	Pass

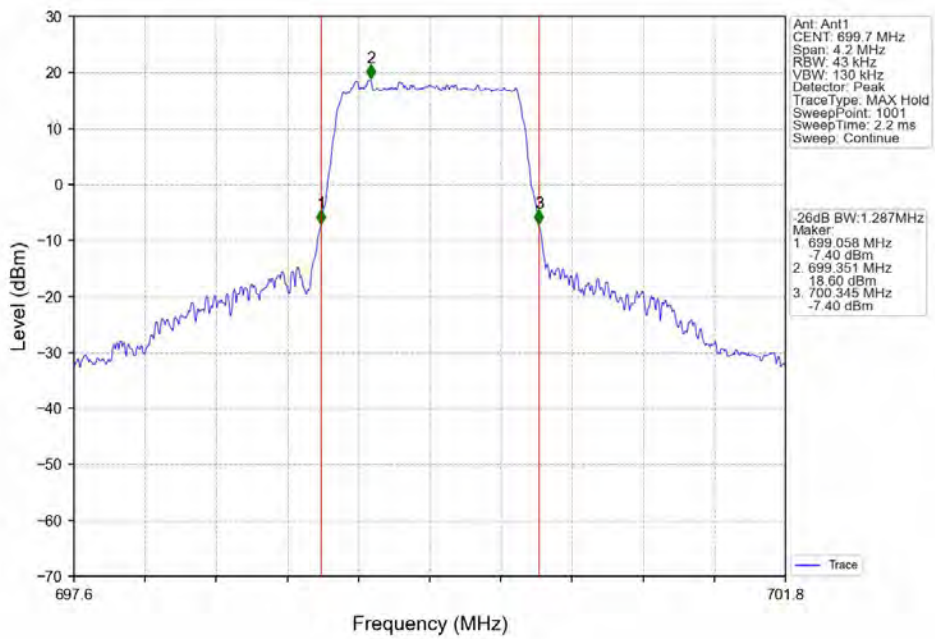
4.2.2 Test Graph



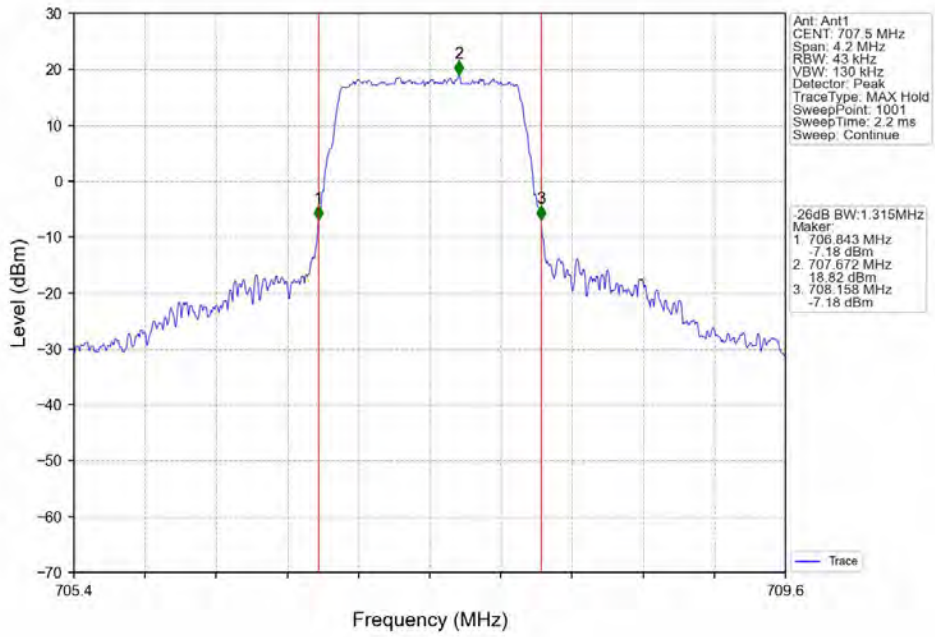
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



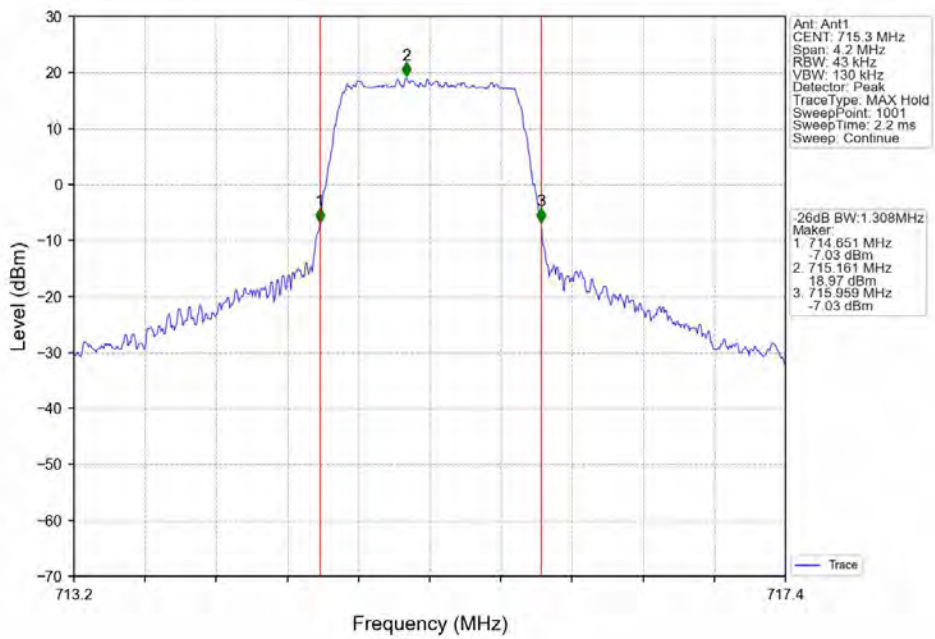
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



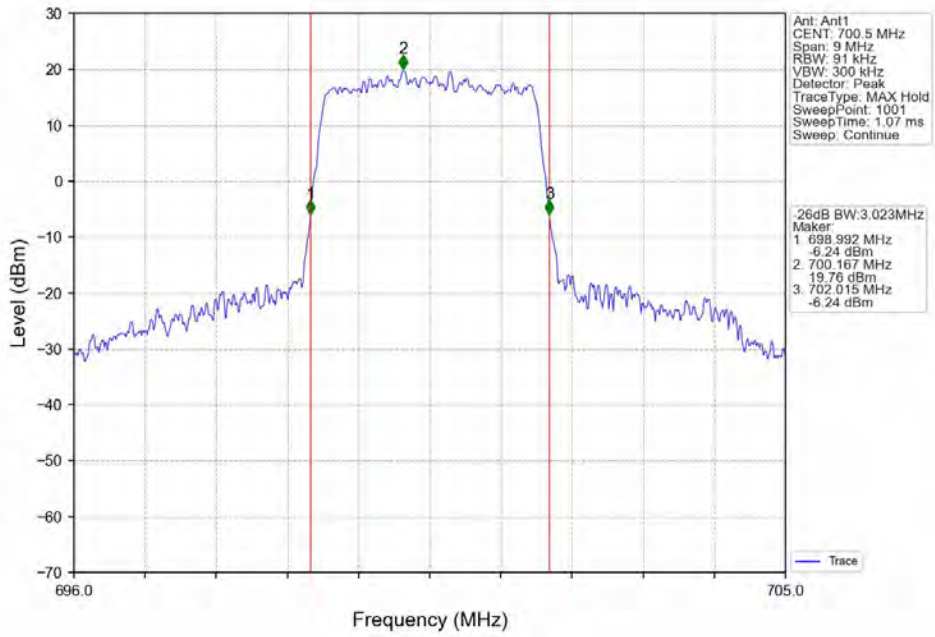
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6_0 NTN



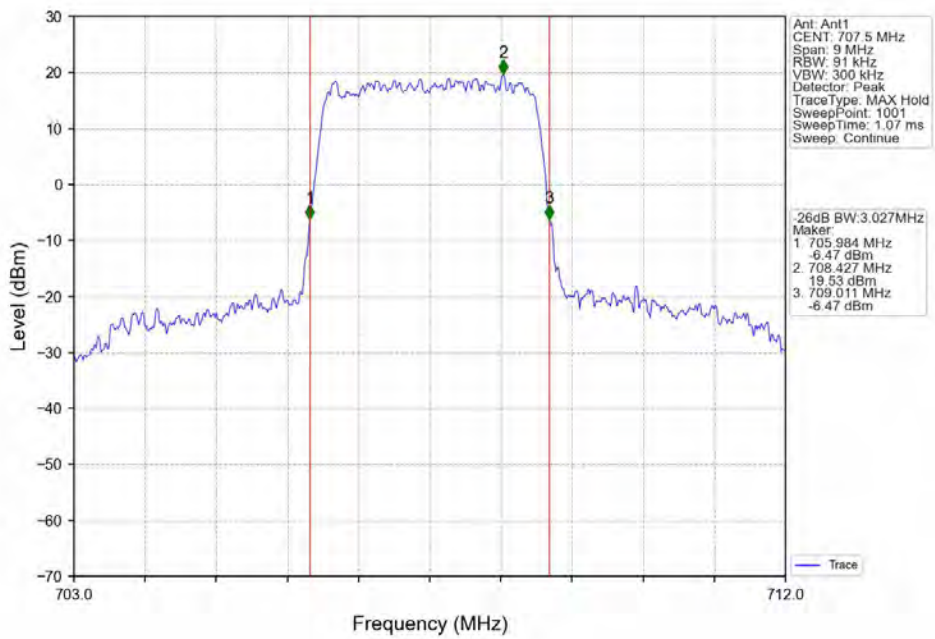
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6_0 NTN



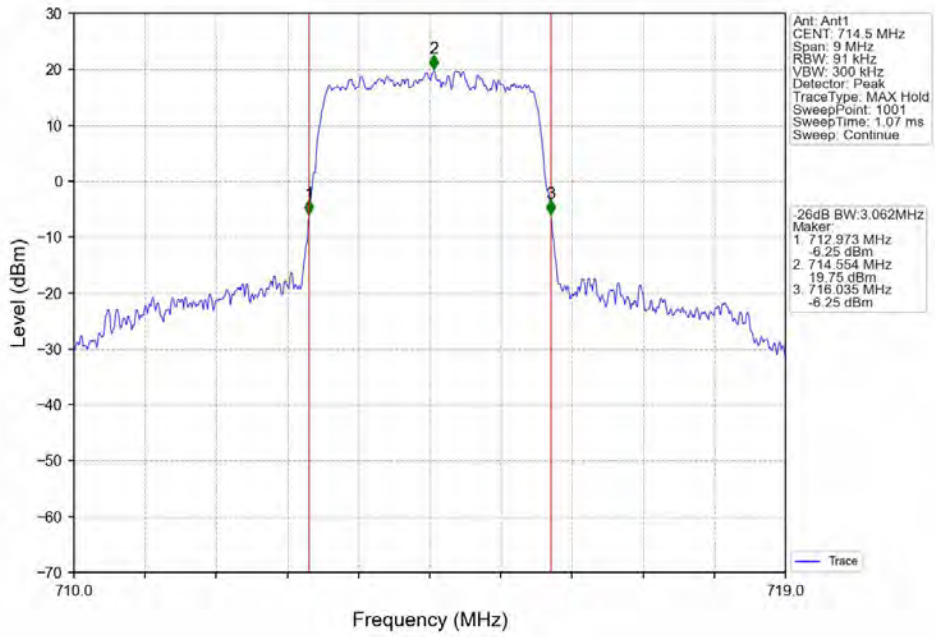
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



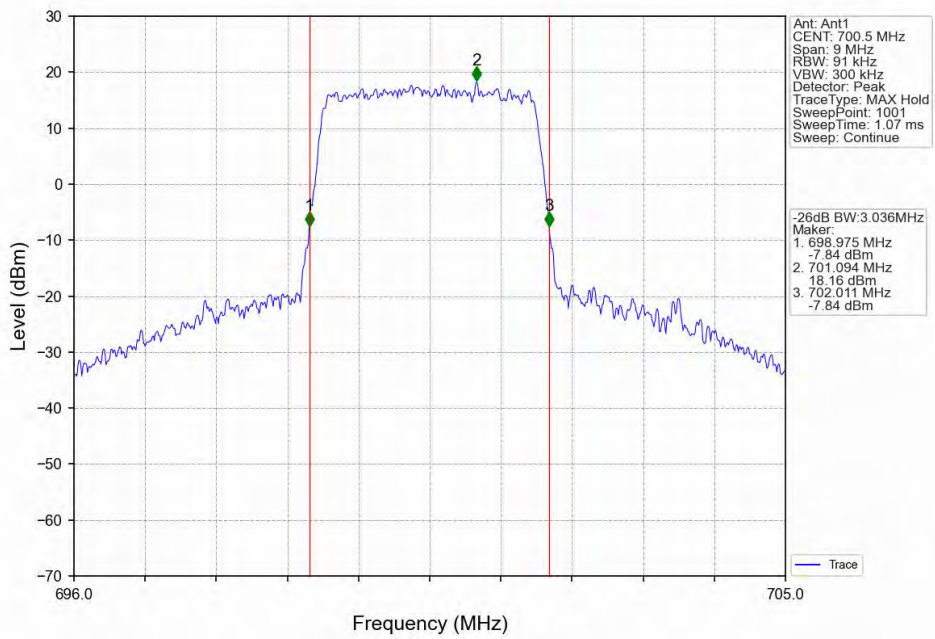
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



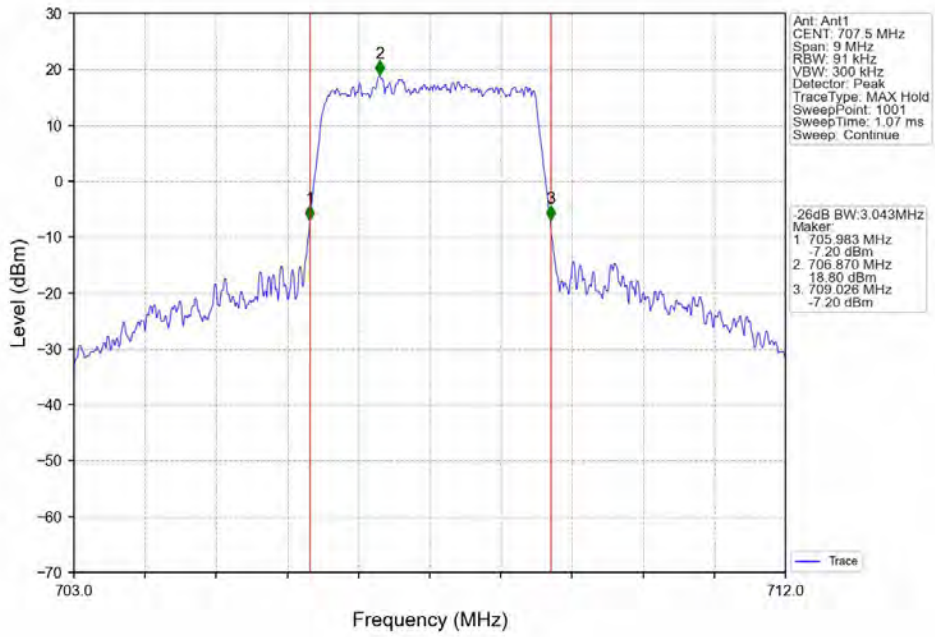
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



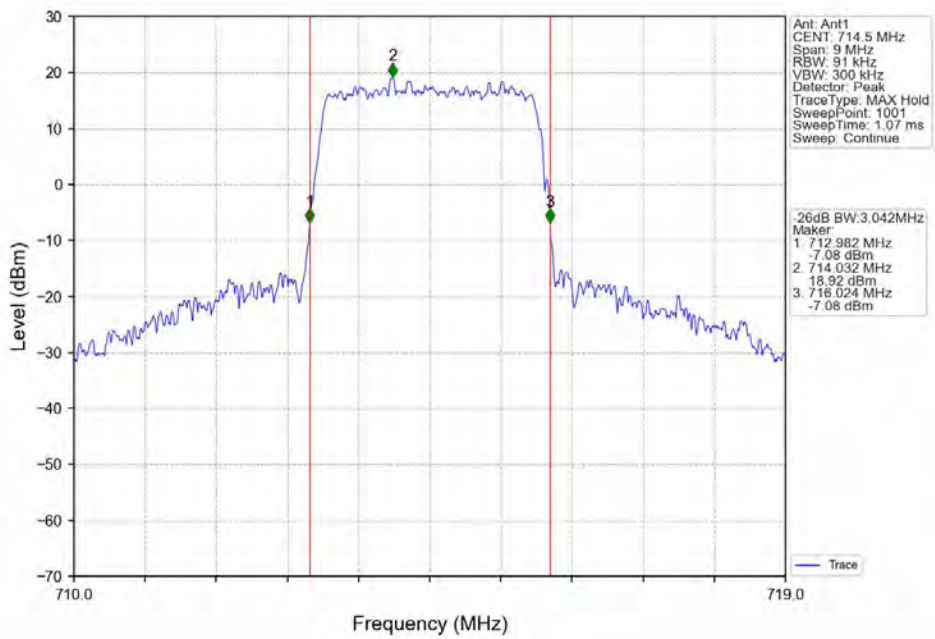
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



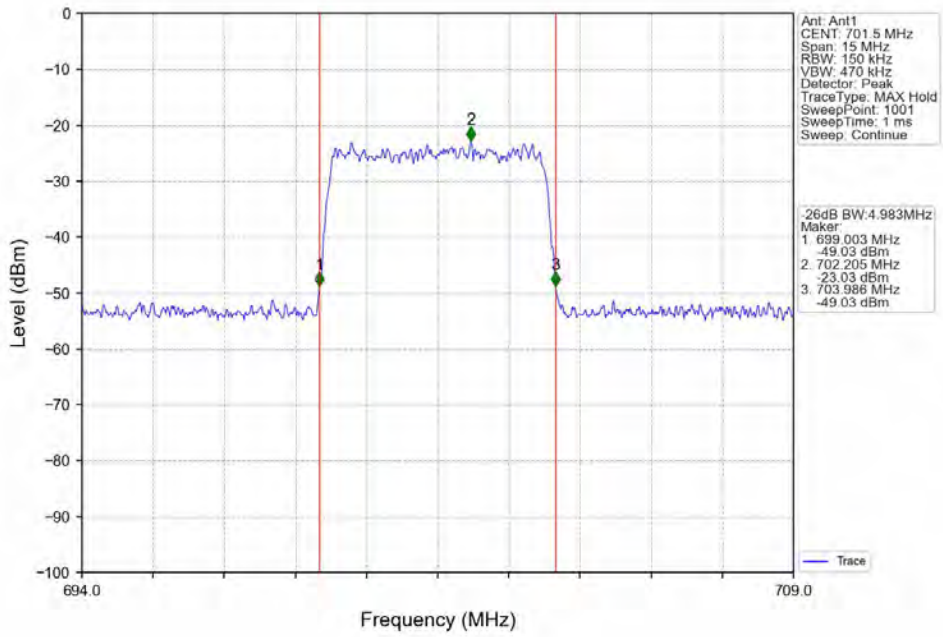
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



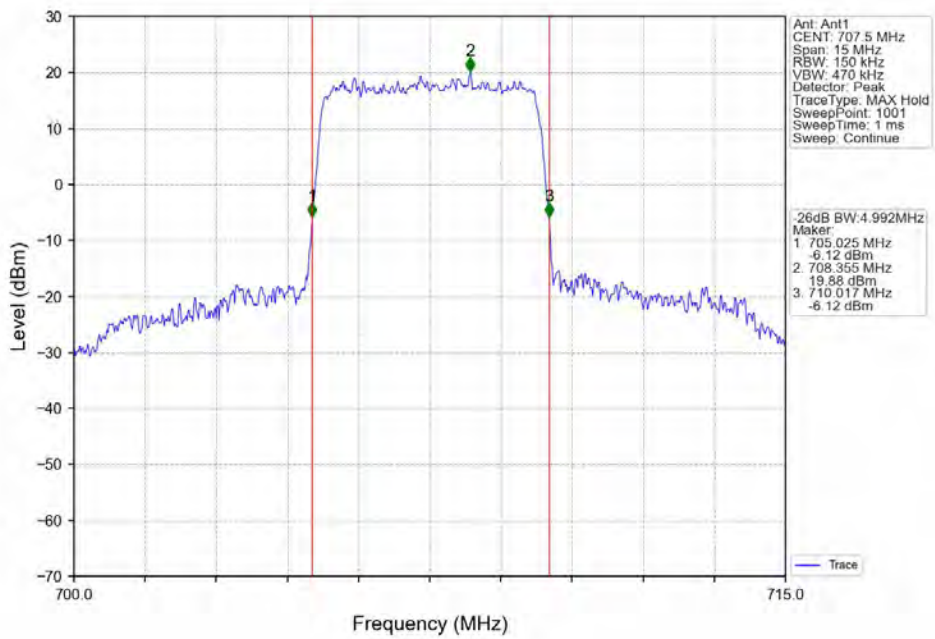
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



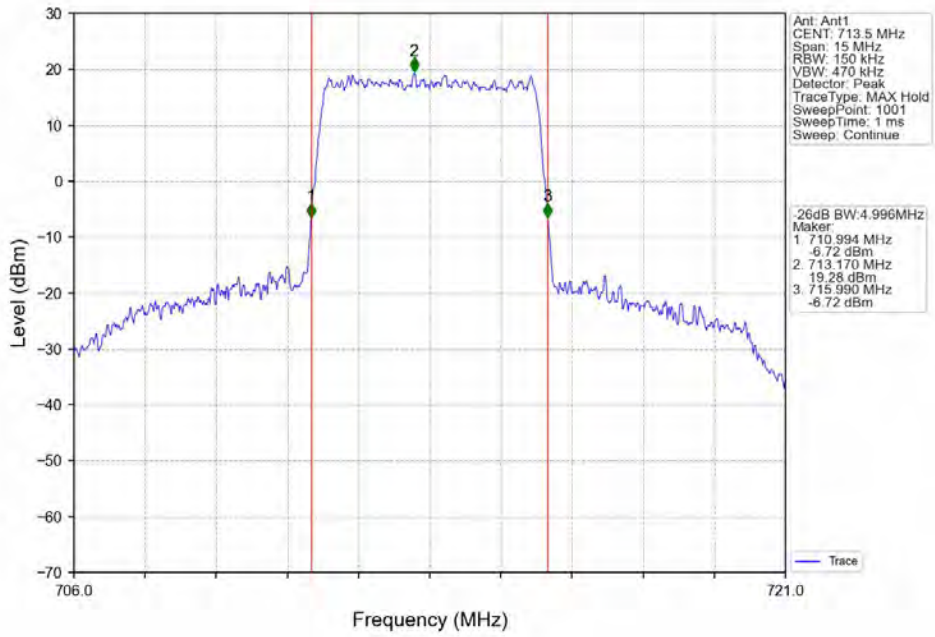
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



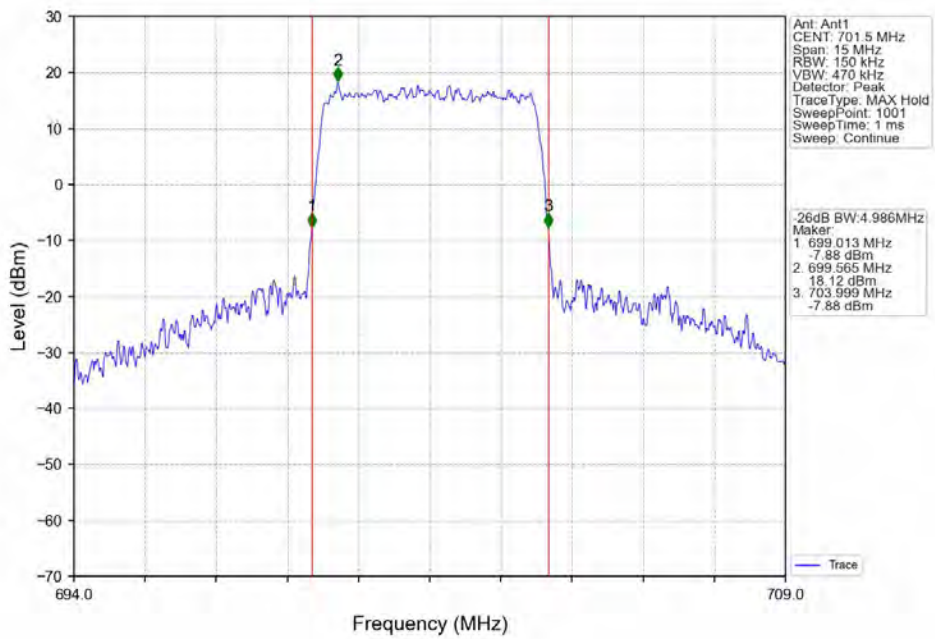
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



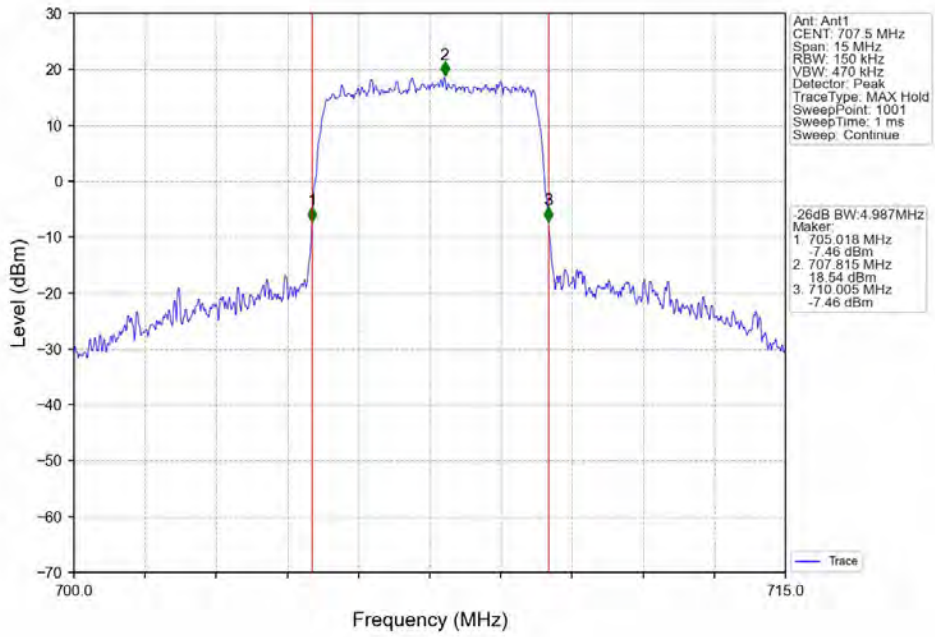
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



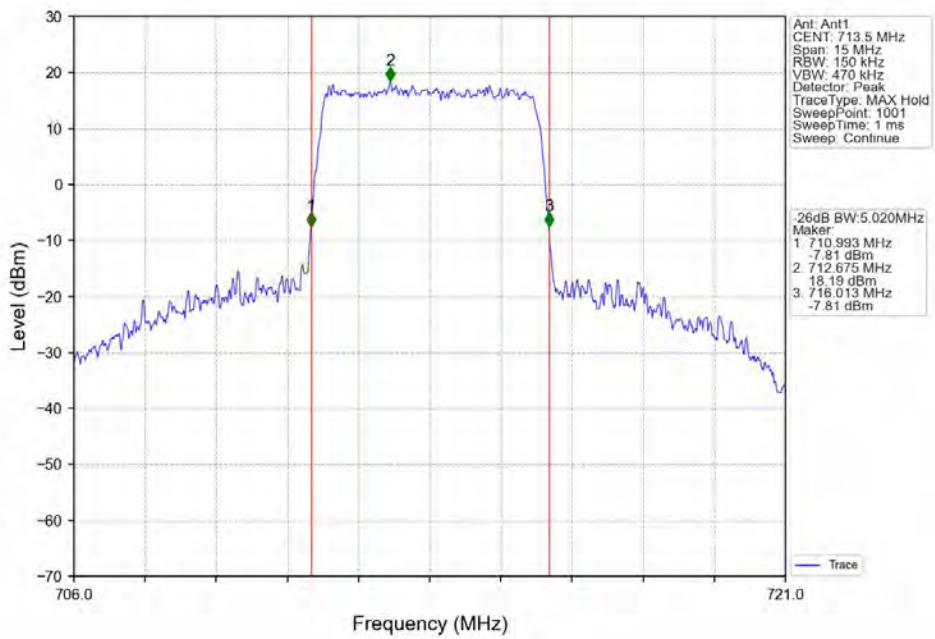
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



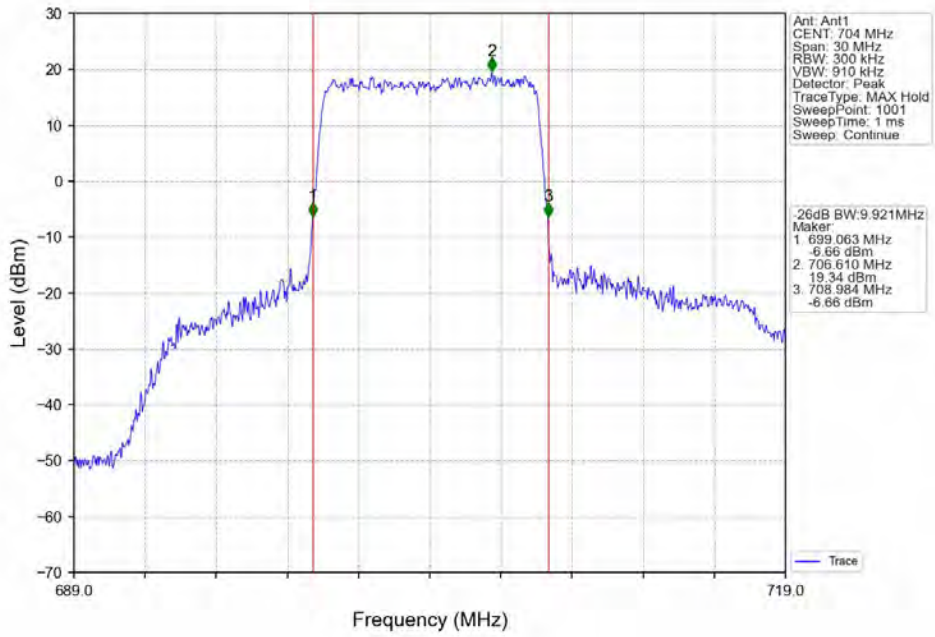
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



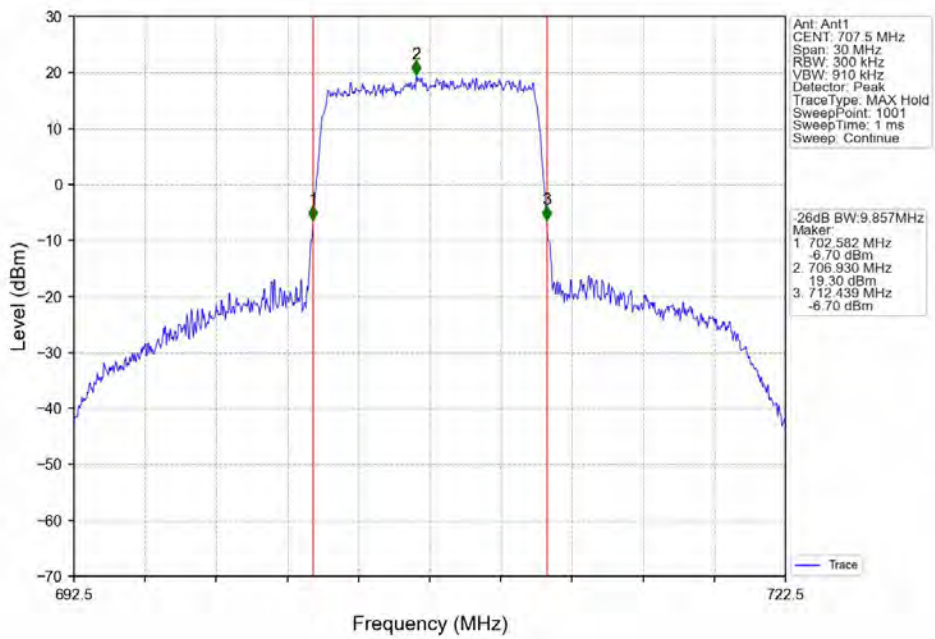
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



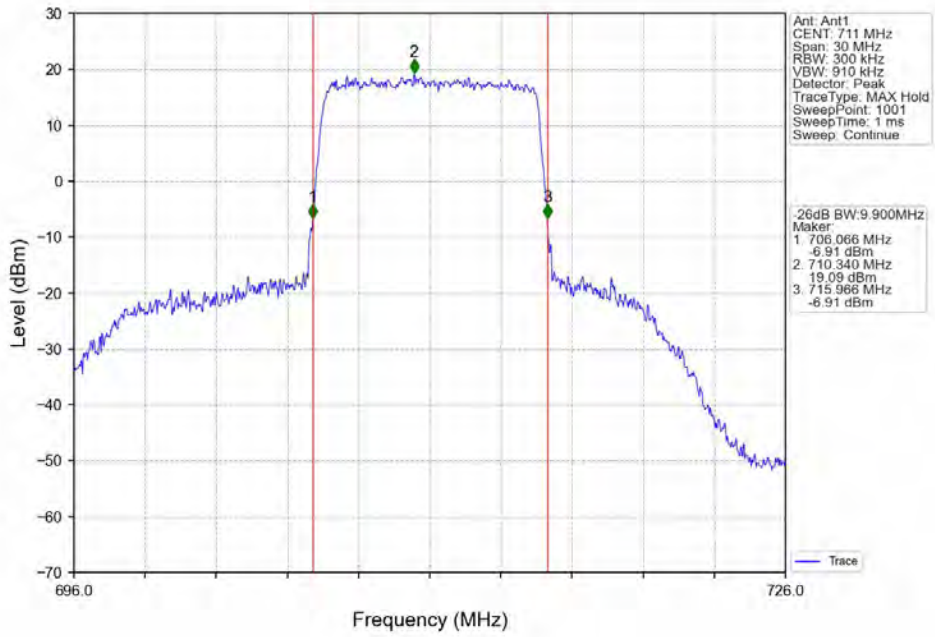
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



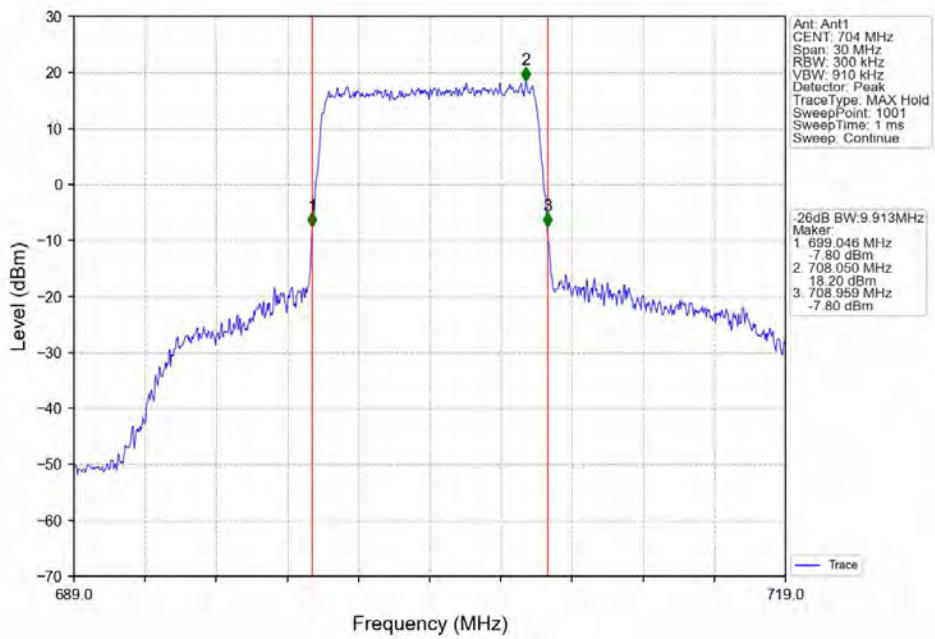
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



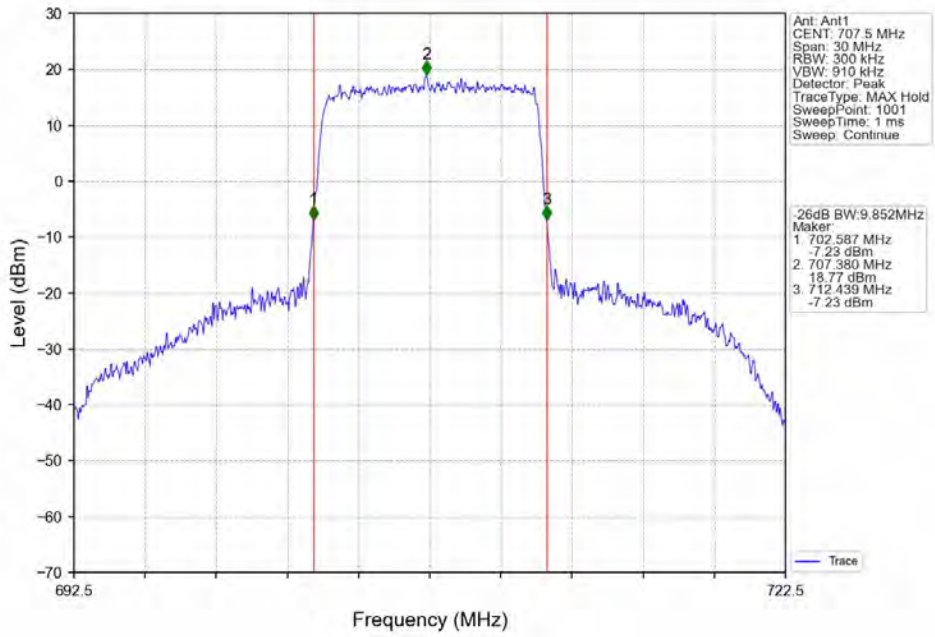
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



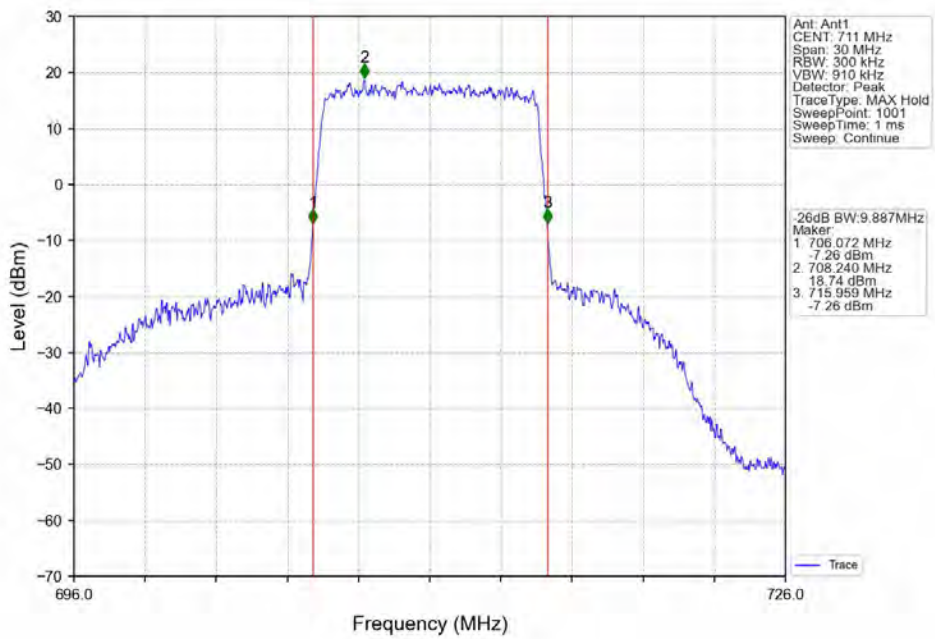
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



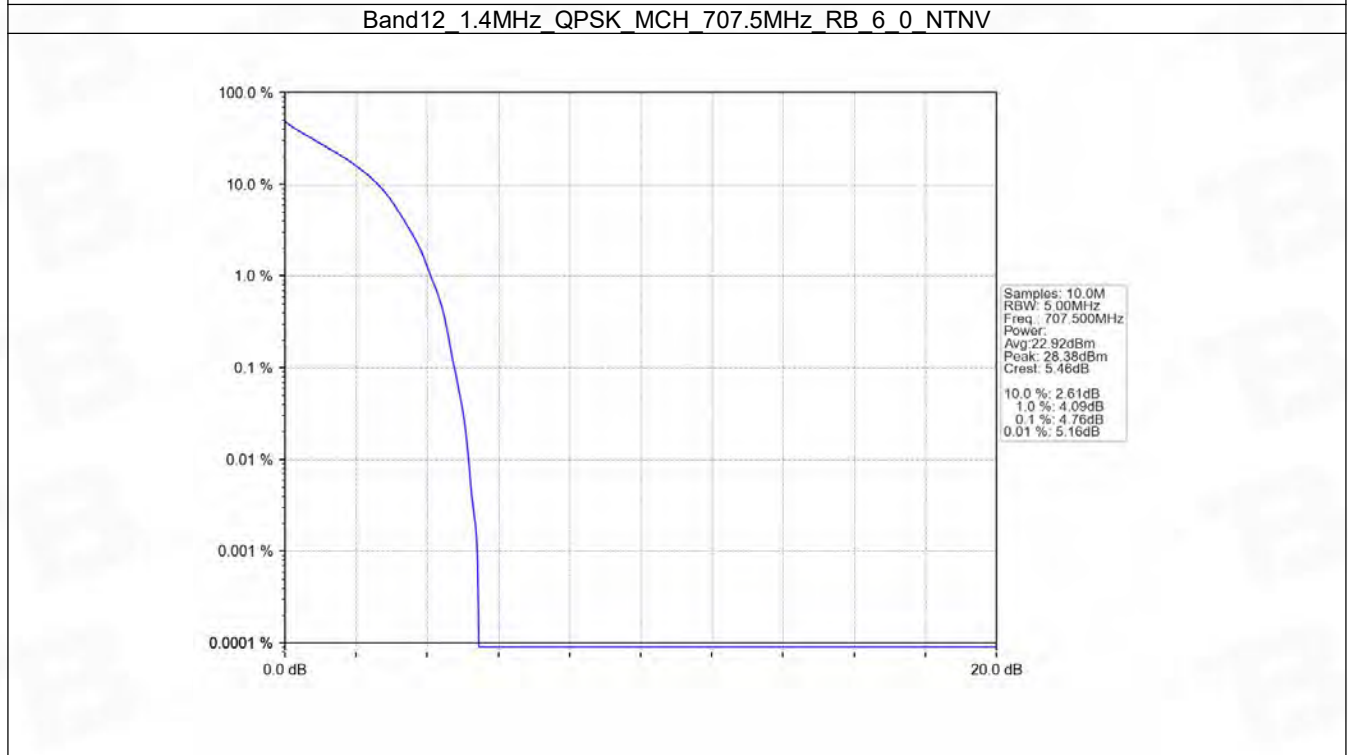
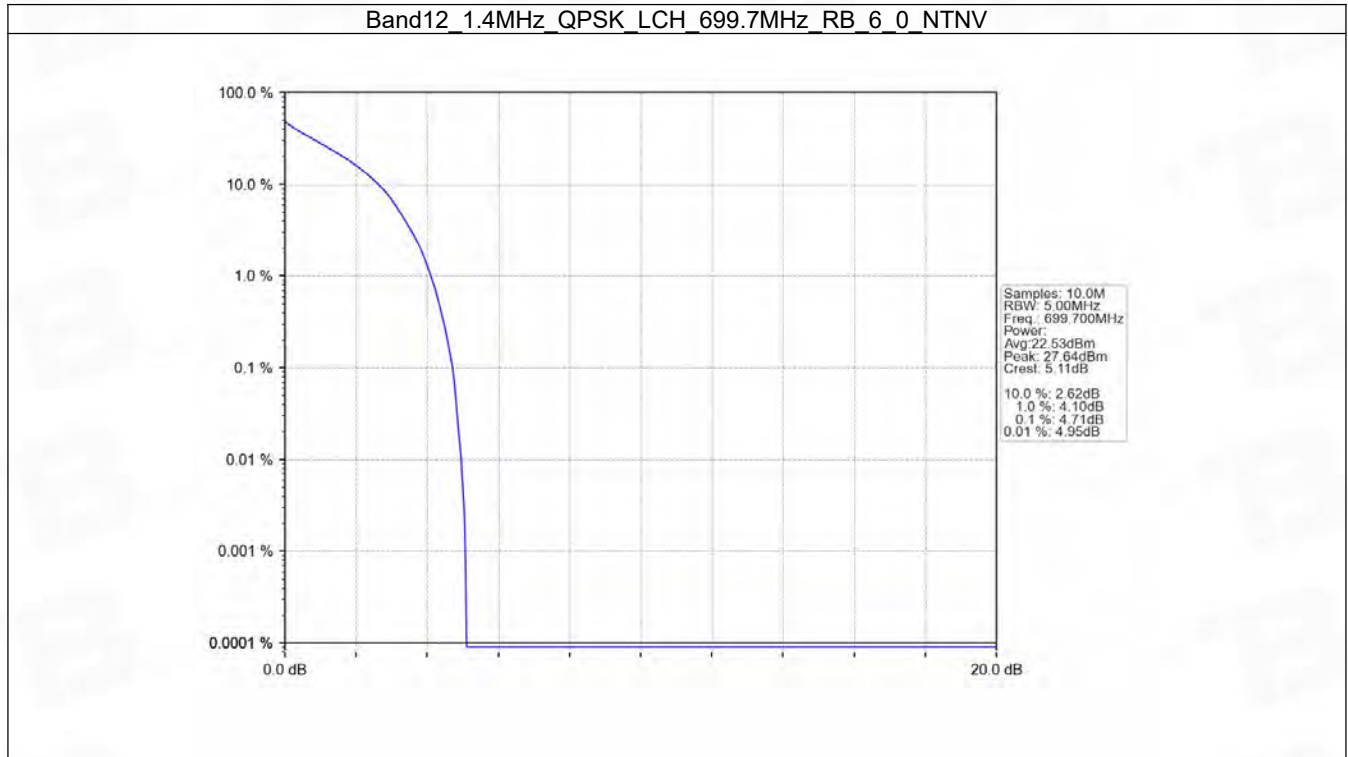
5. Peak-Average Ratio

5.1 B12_1.4MHz

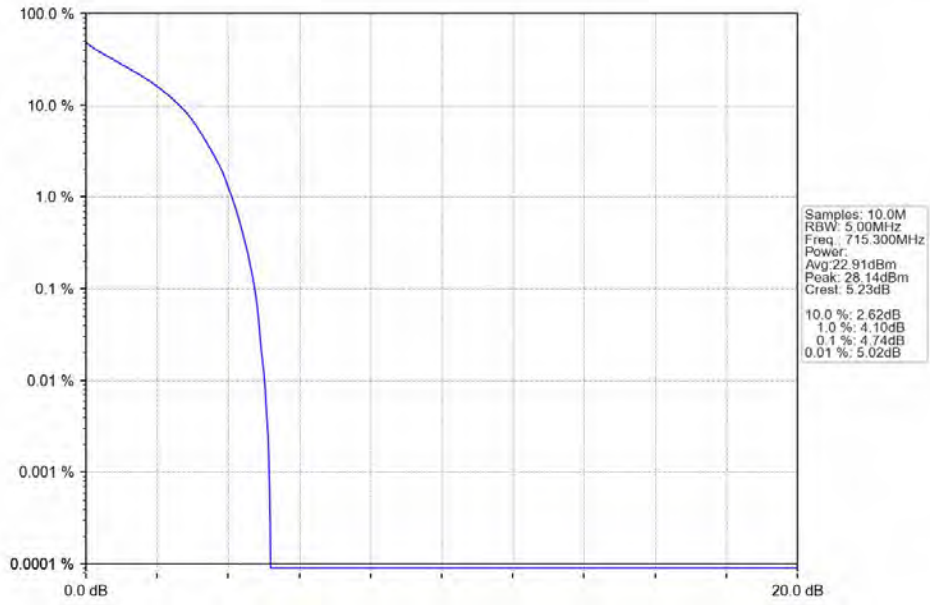
5.1.1 Test Result

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	4.71	<=13	Pass
	707.5	6	0	4.76	<=13	Pass
	715.3	6	0	4.74	<=13	Pass
16QAM	699.7	6	0	5.53	<=13	Pass
	707.5	6	0	5.63	<=13	Pass
	715.3	6	0	5.57	<=13	Pass

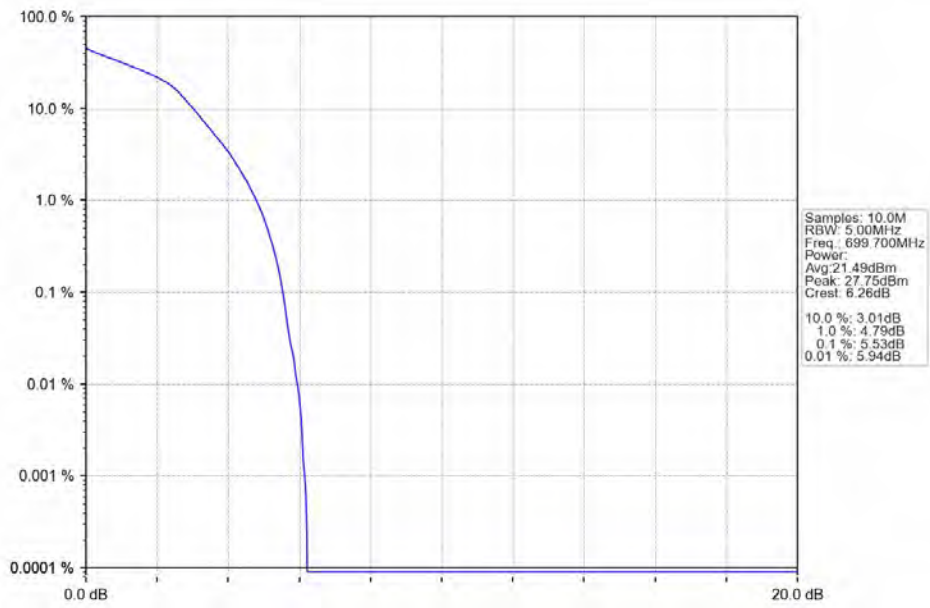
5.1.2 Test Graph



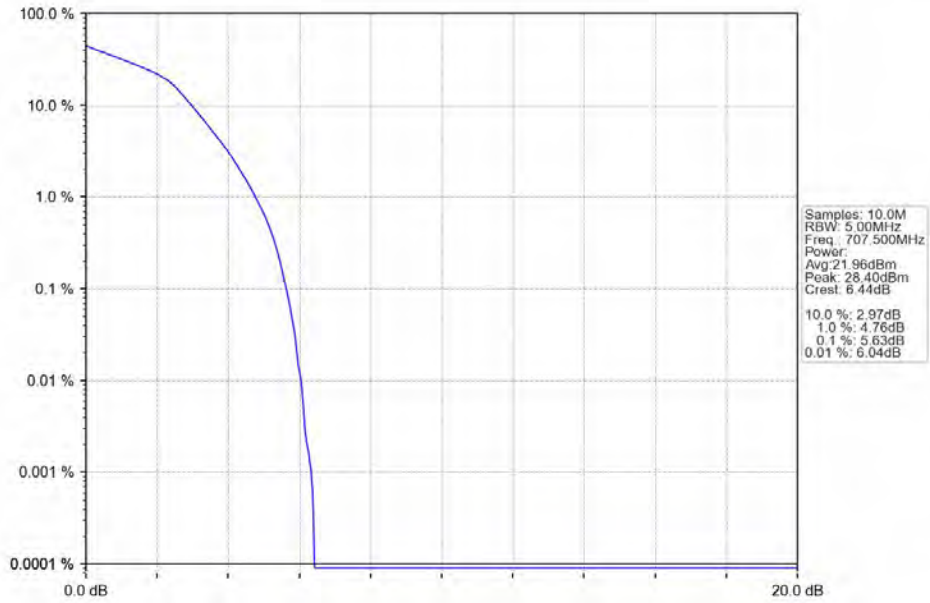
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



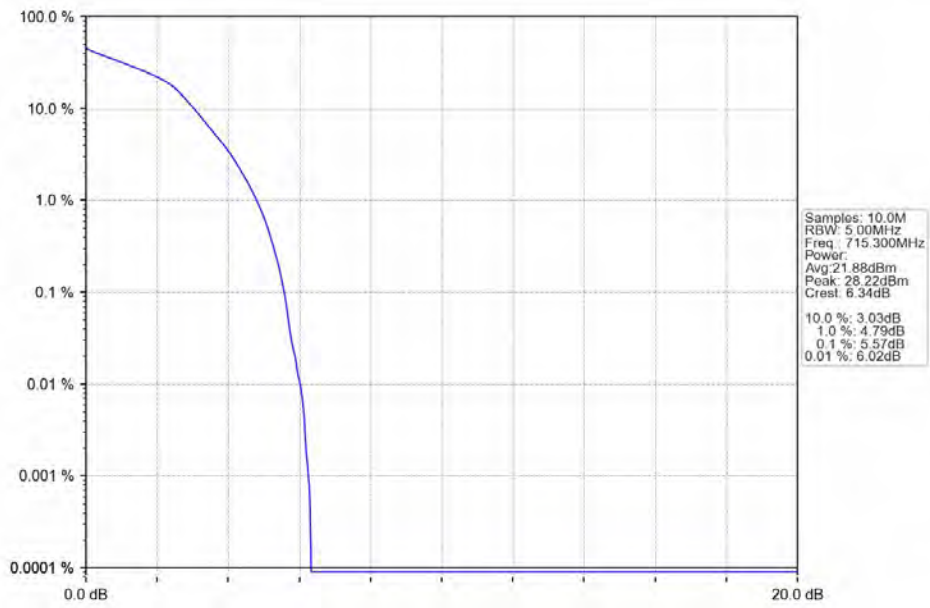
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



Band12 1.4MHz 16QAM MCH 707.5MHz RB 6.0 NTNV



Band12 1.4MHz 16QAM HCH 715.3MHz RB 6.0 NTNV

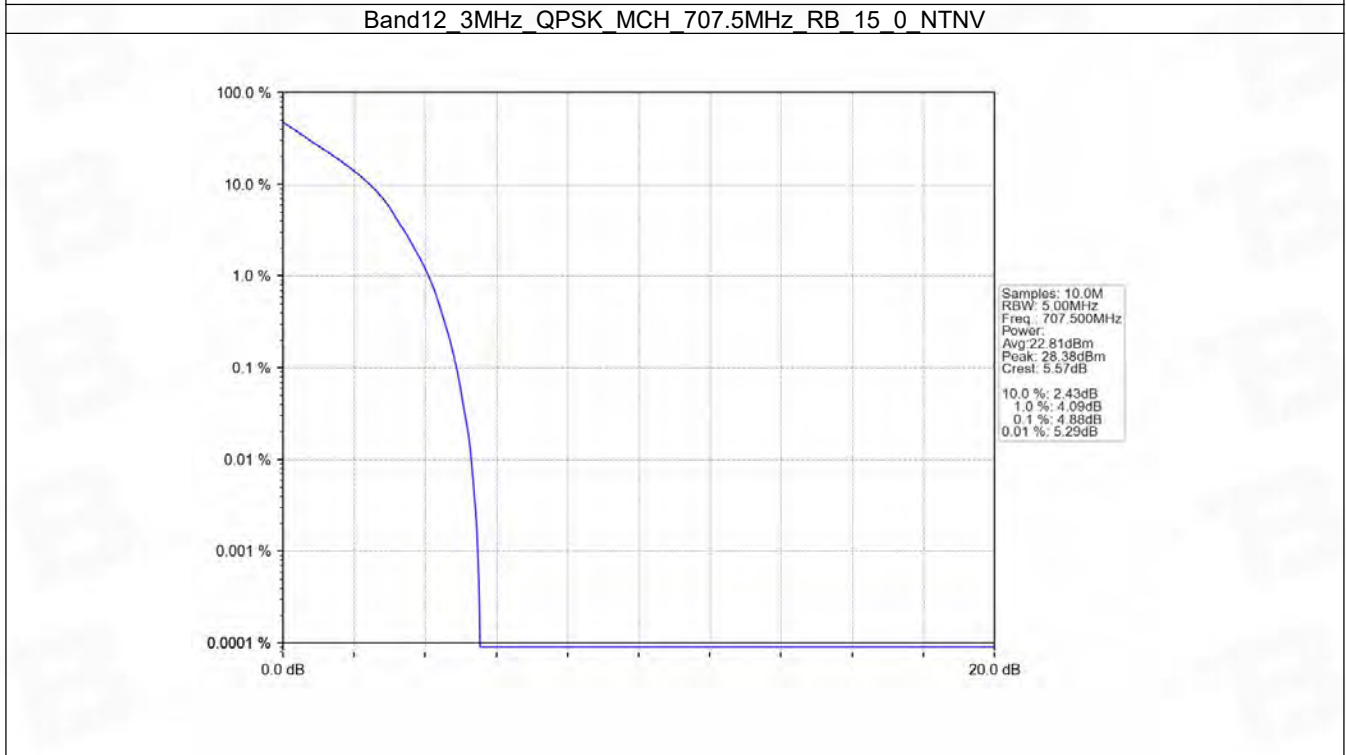
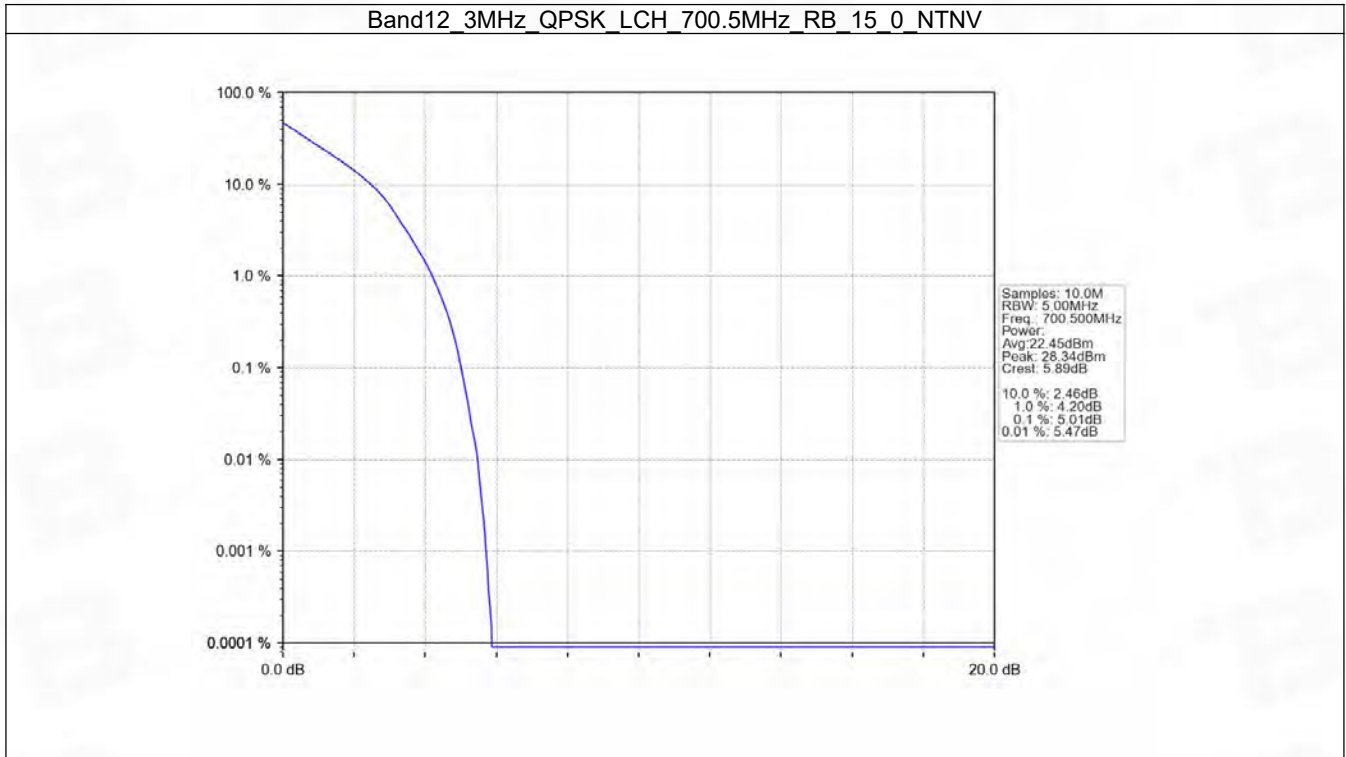


5.2 B12_3MHz

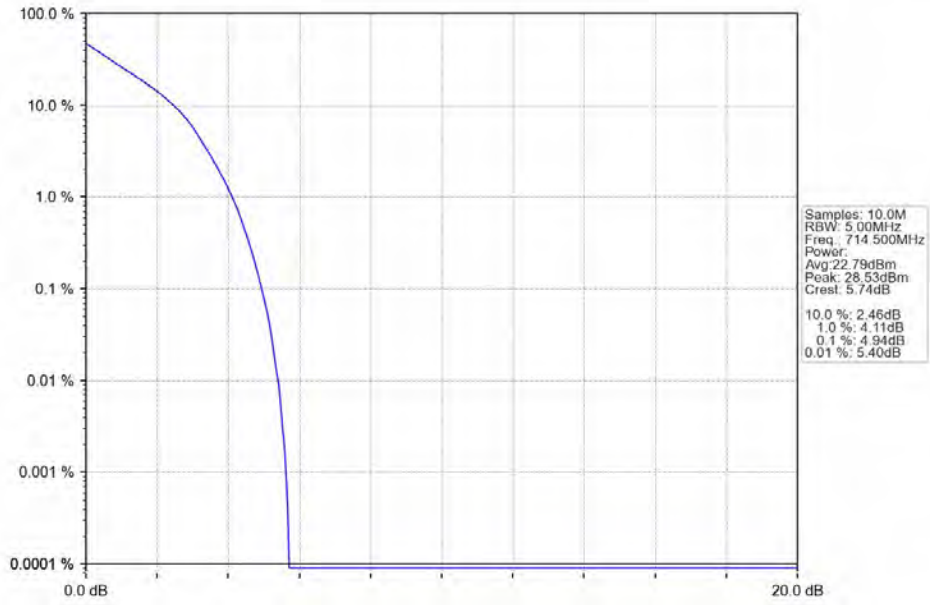
5.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.01	<=13	Pass
	707.5	15	0	4.88	<=13	Pass
	714.5	15	0	4.94	<=13	Pass
16QAM	700.5	15	0	5.84	<=13	Pass
	707.5	15	0	5.76	<=13	Pass
	714.5	15	0	5.78	<=13	Pass

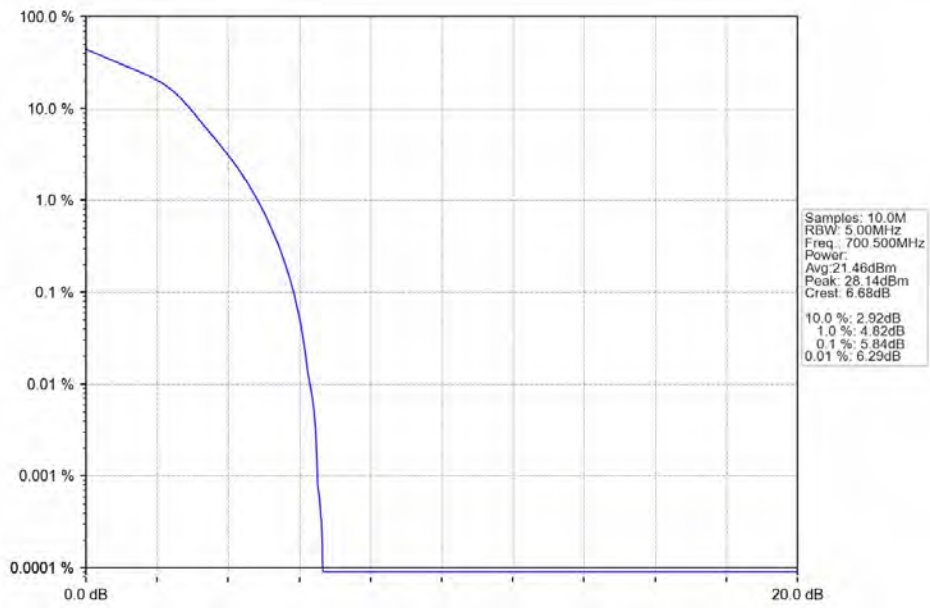
5.2.2 Test Graph



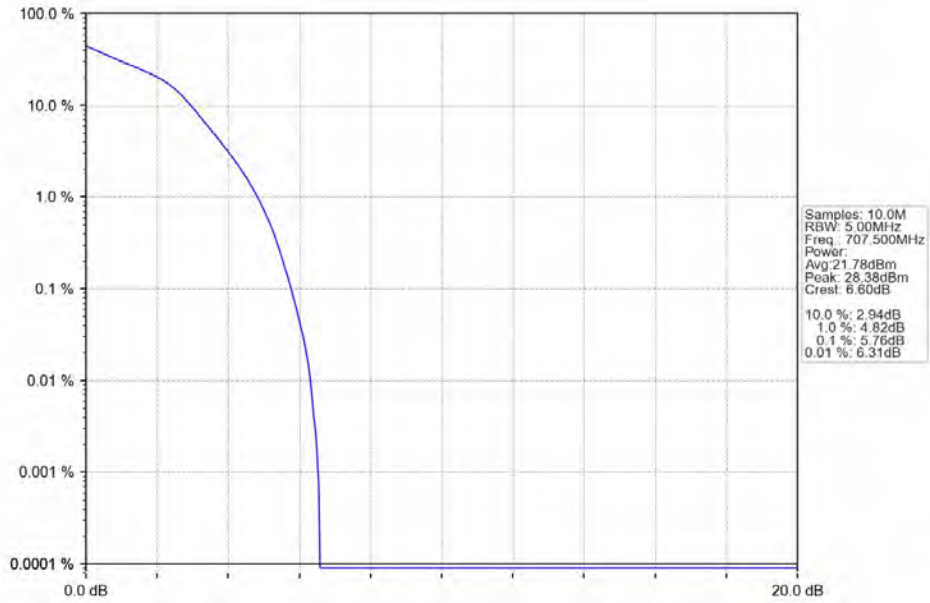
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



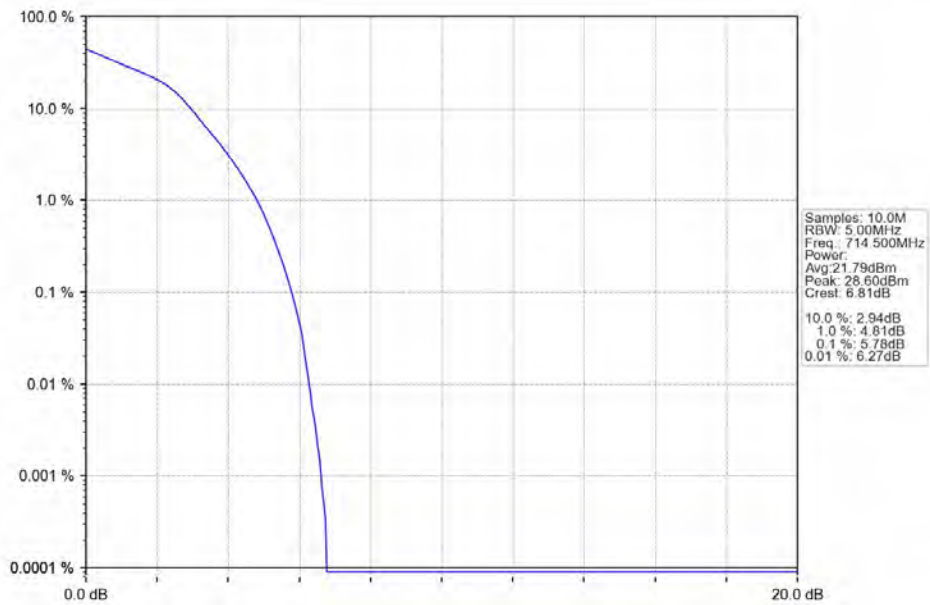
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

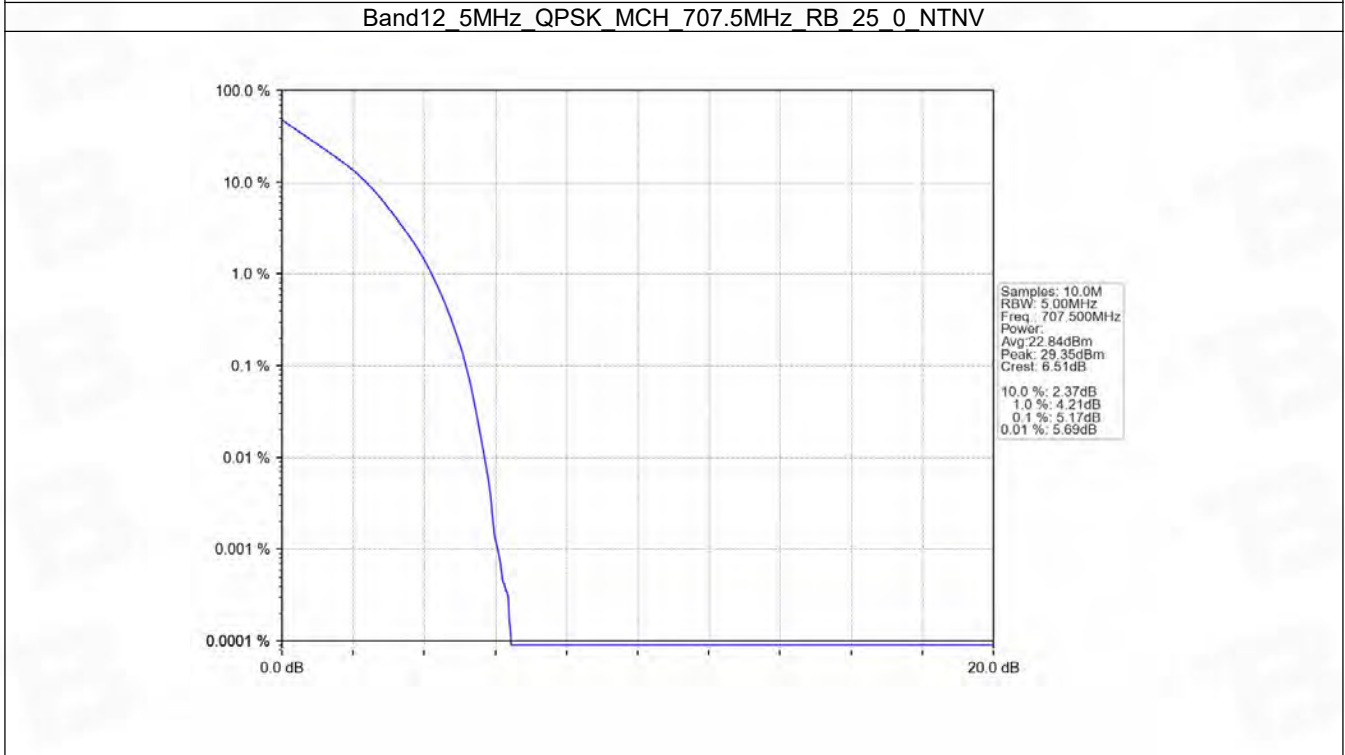
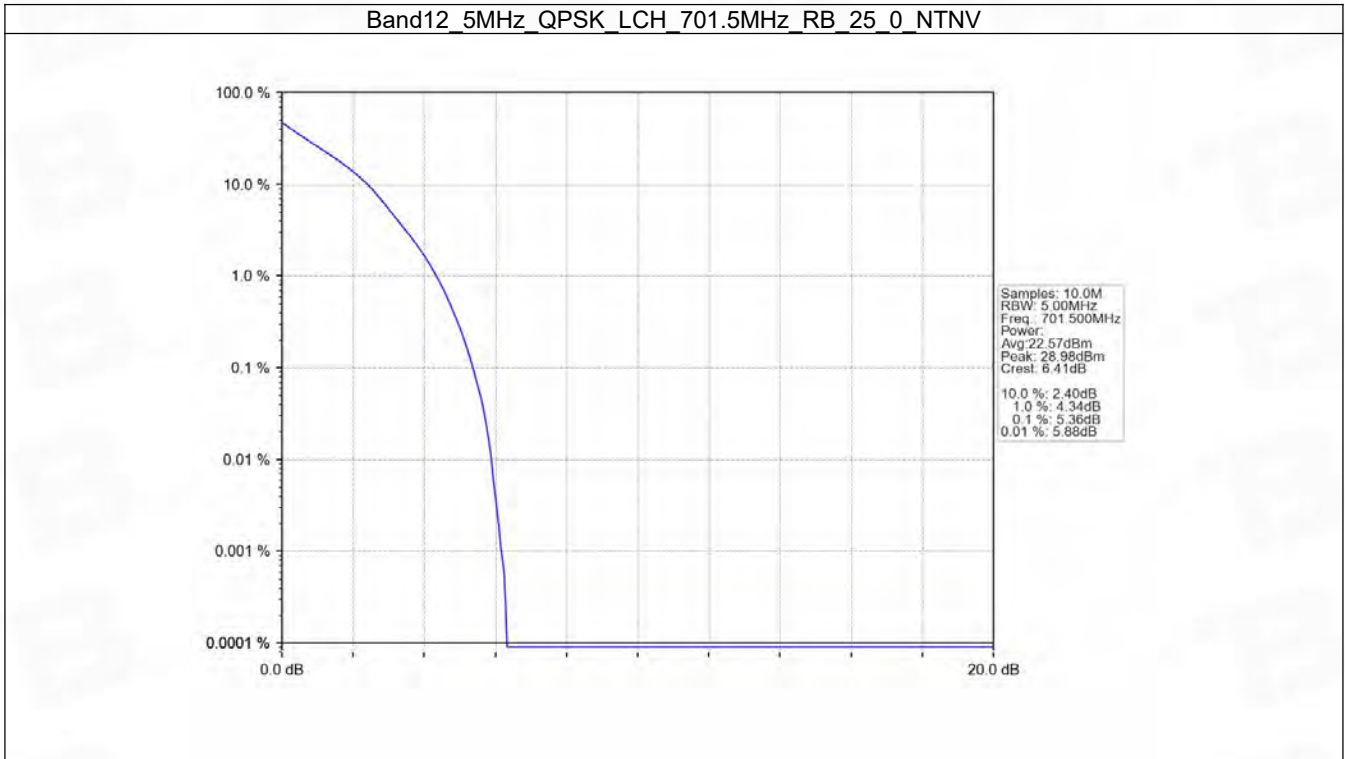


5.3 B12_5MHz

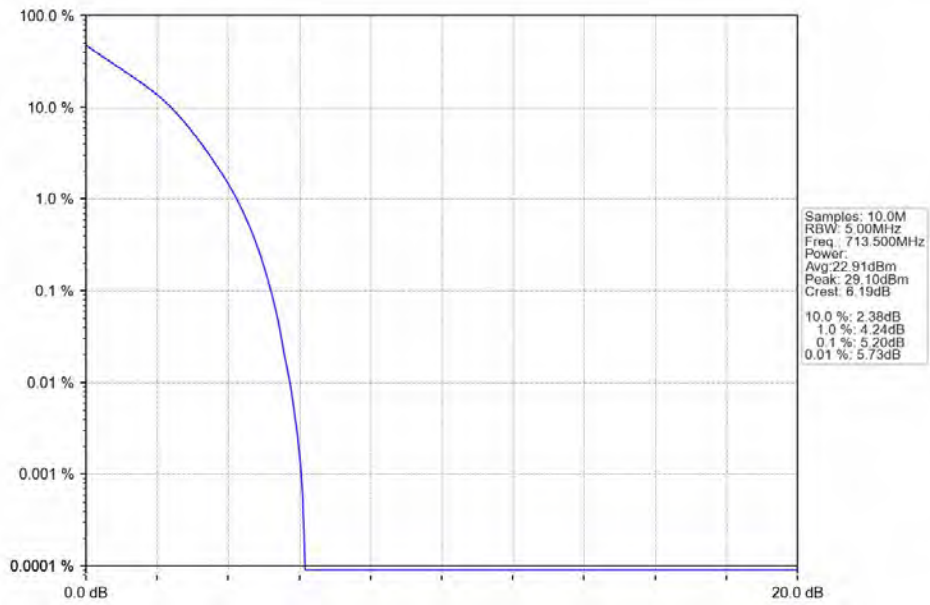
5.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.36	<=13	Pass
	707.5	25	0	5.17	<=13	Pass
	713.5	25	0	5.20	<=13	Pass
16QAM	701.5	25	0	6.07	<=13	Pass
	707.5	25	0	5.90	<=13	Pass
	713.5	25	0	5.89	<=13	Pass

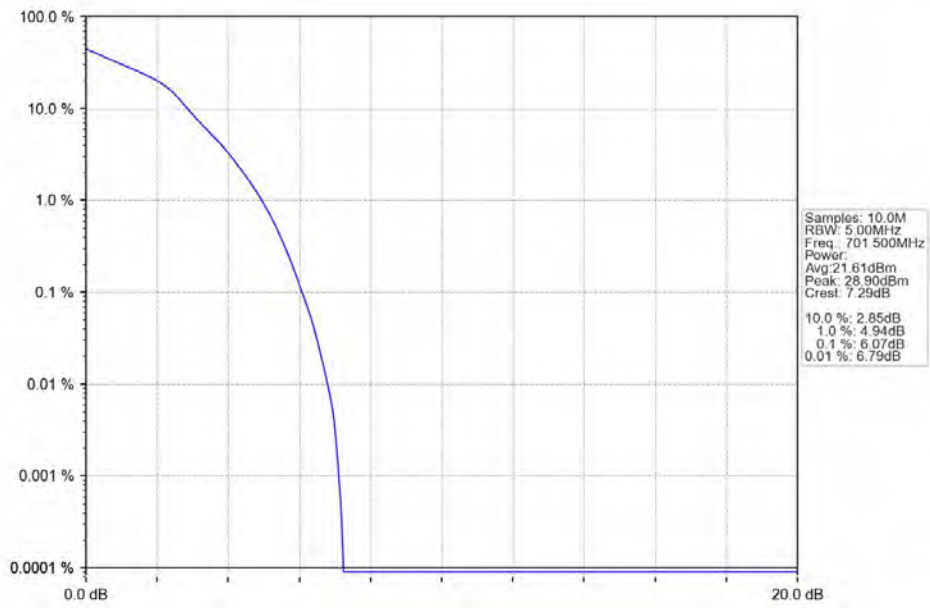
5.3.2 Test Graph



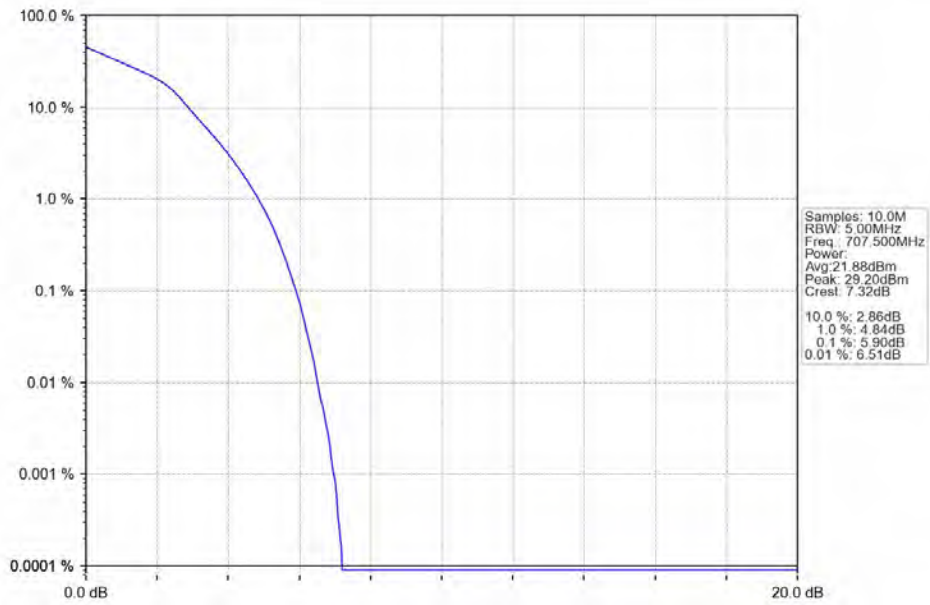
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



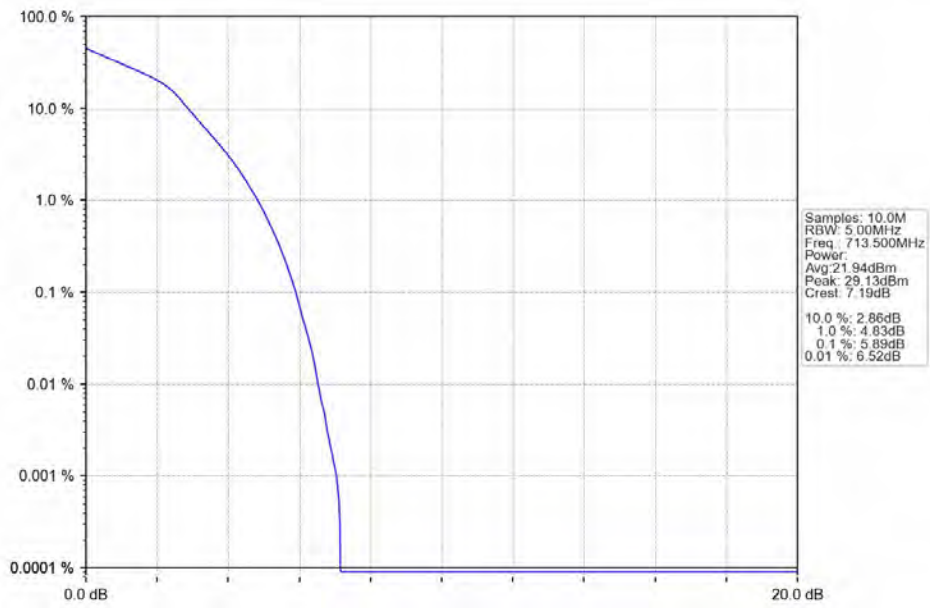
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

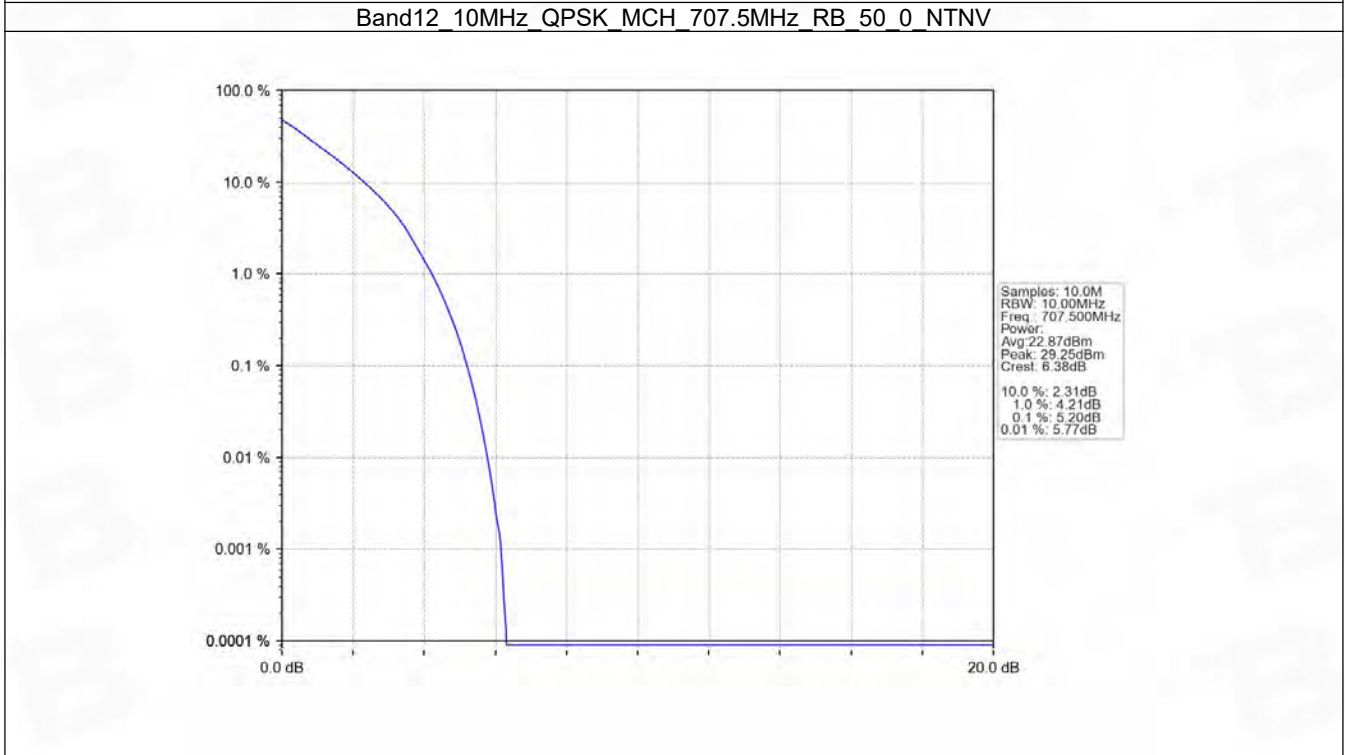
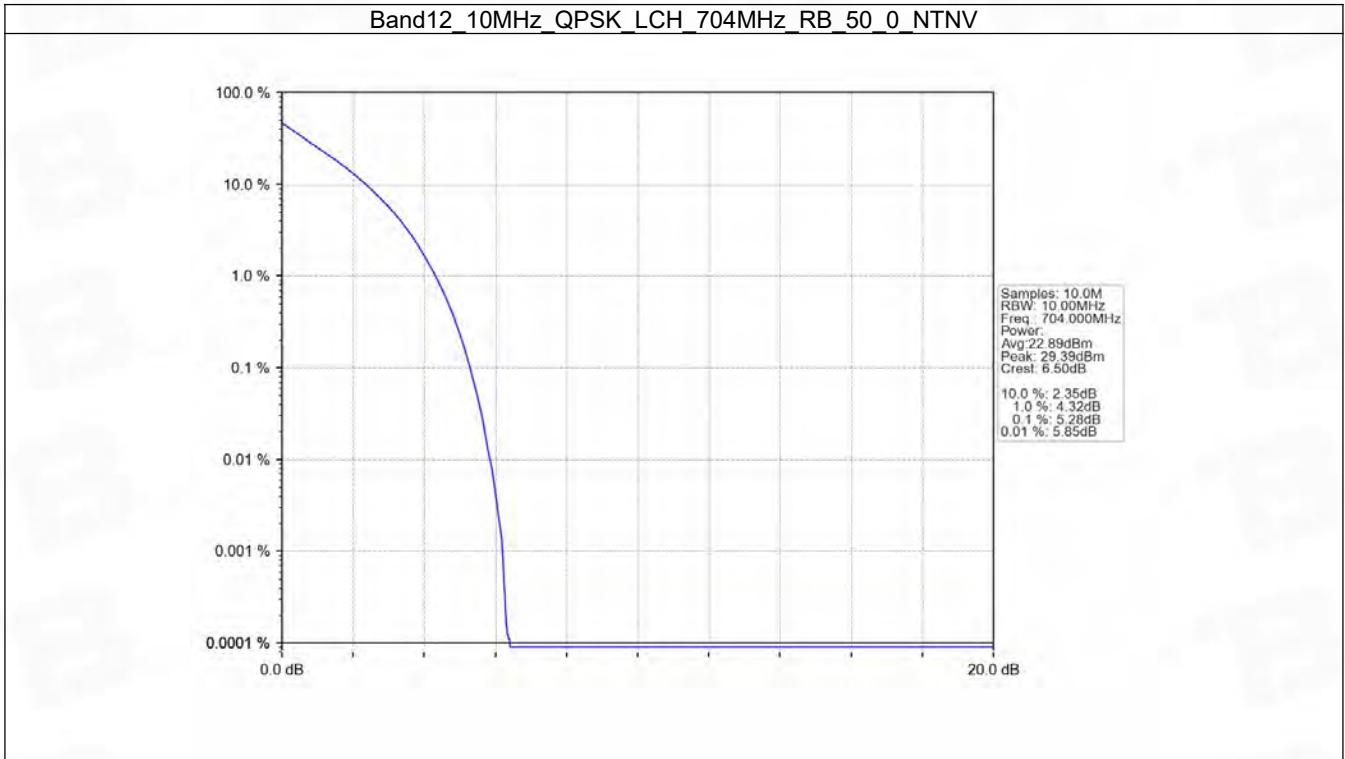


5.4 B12_10MHz

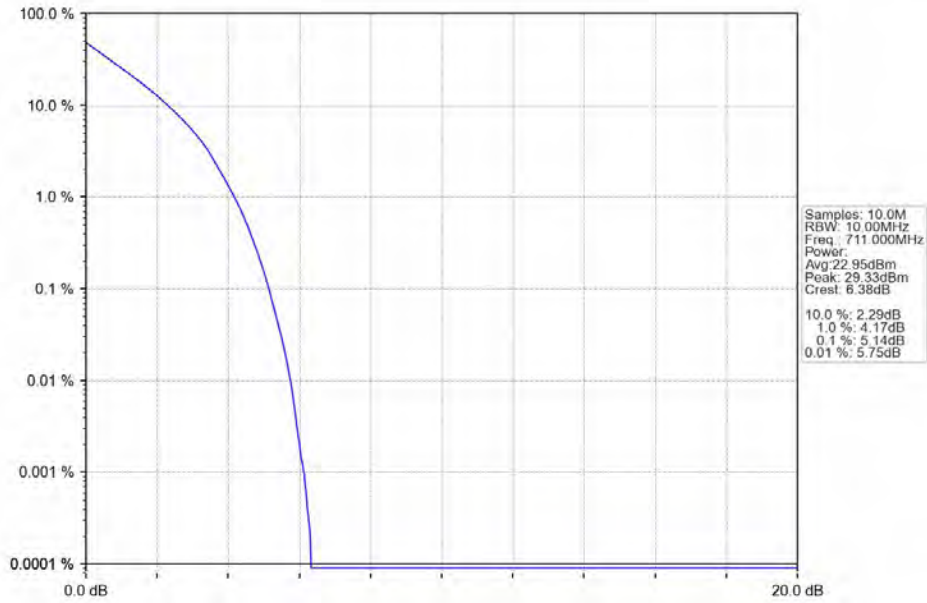
5.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.28	<=13	Pass
	707.5	50	0	5.20	<=13	Pass
	711	50	0	5.14	<=13	Pass
16QAM	704	50	0	6.06	<=13	Pass
	707.5	50	0	5.99	<=13	Pass
	711	50	0	5.89	<=13	Pass

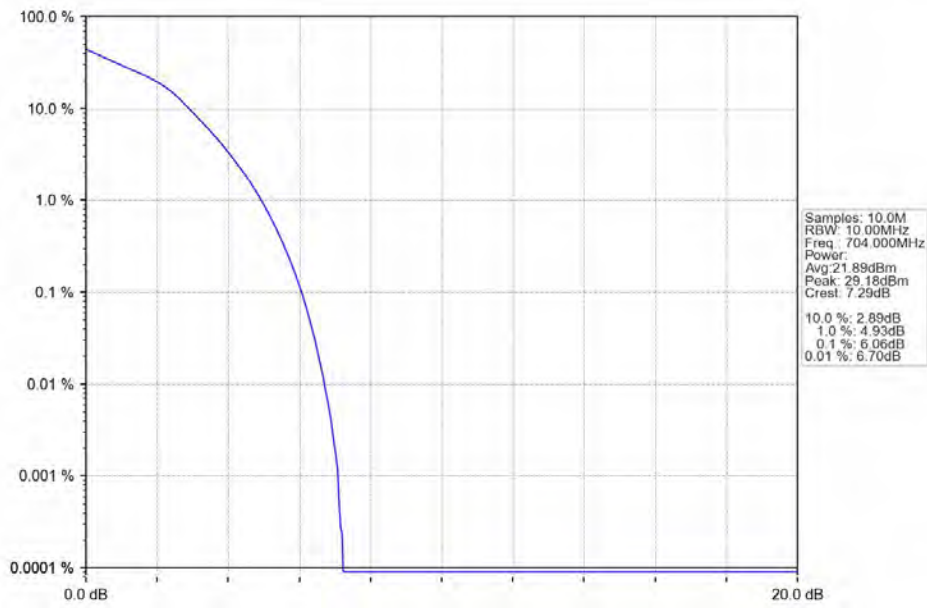
5.4.2 Test Graph



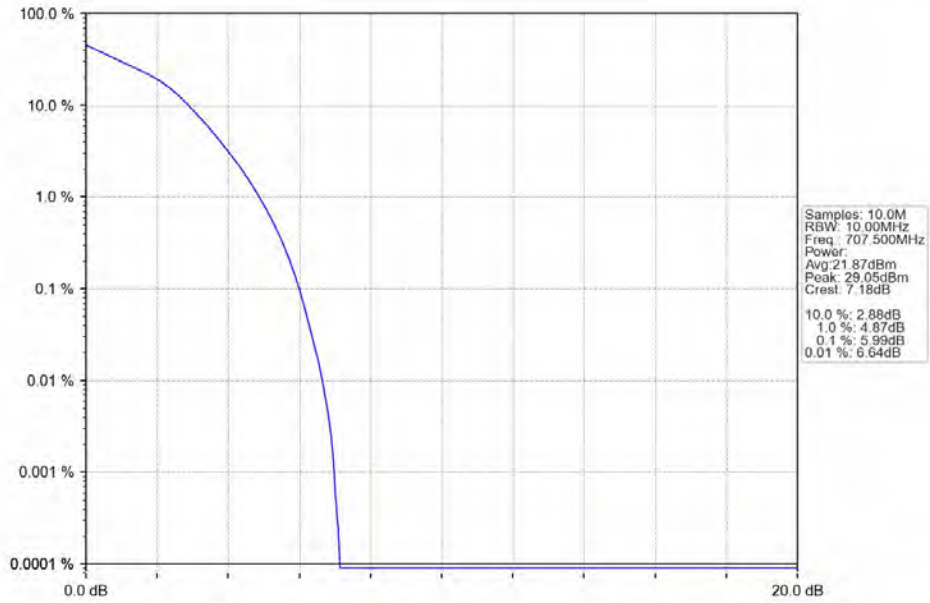
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



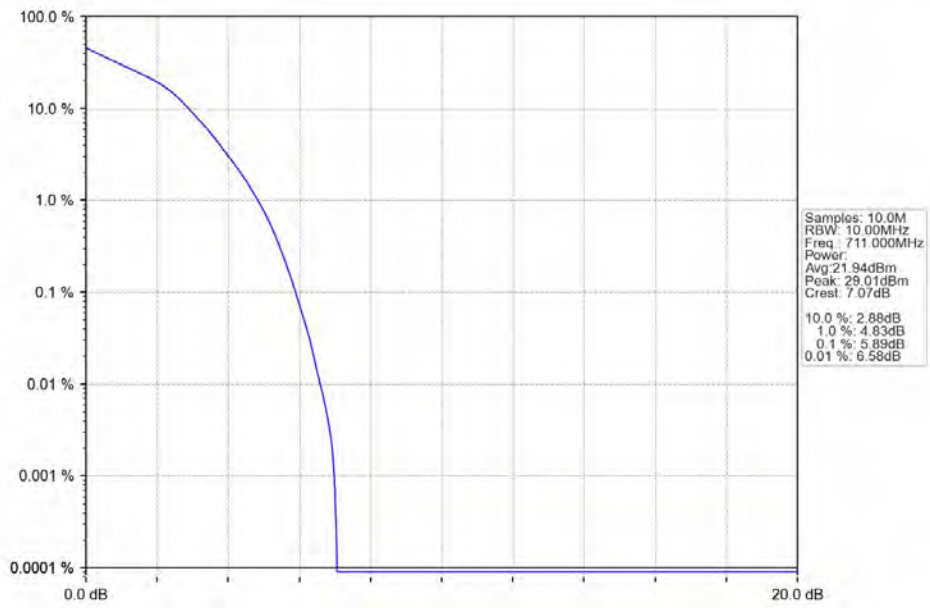
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



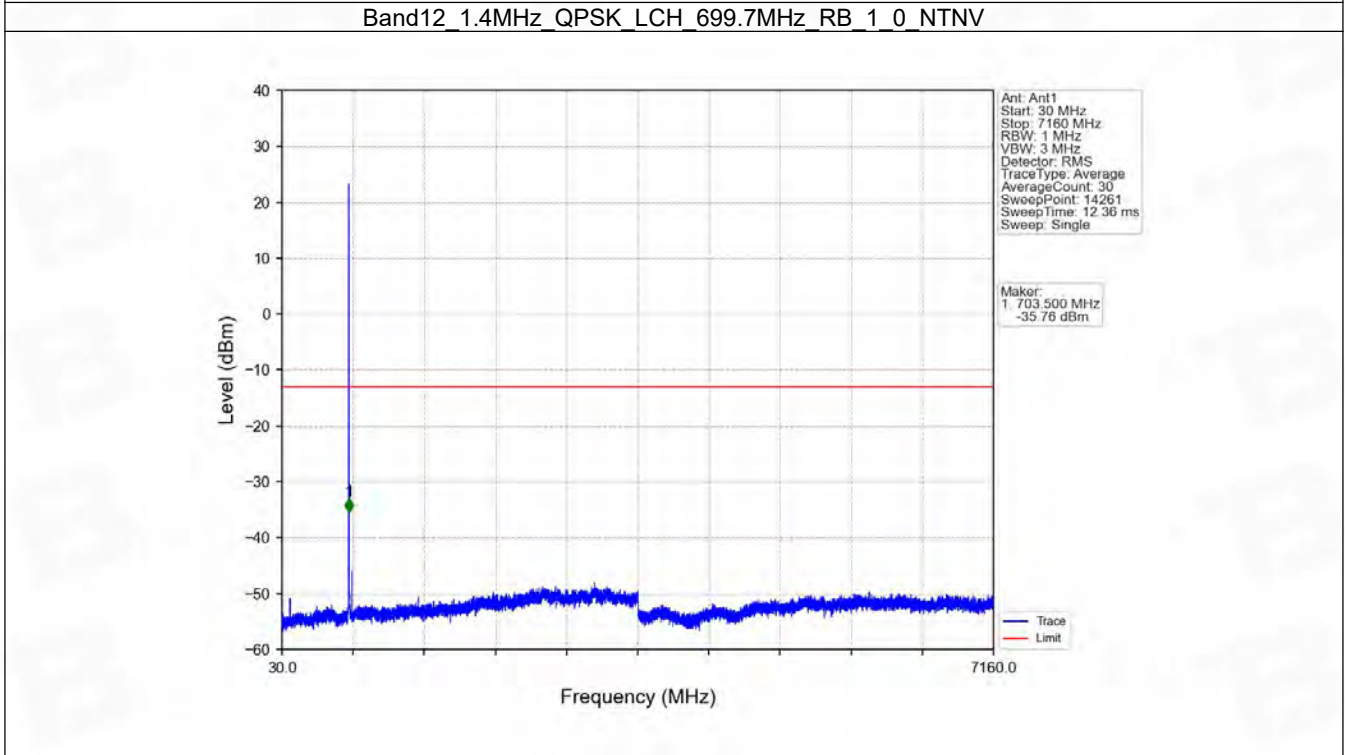
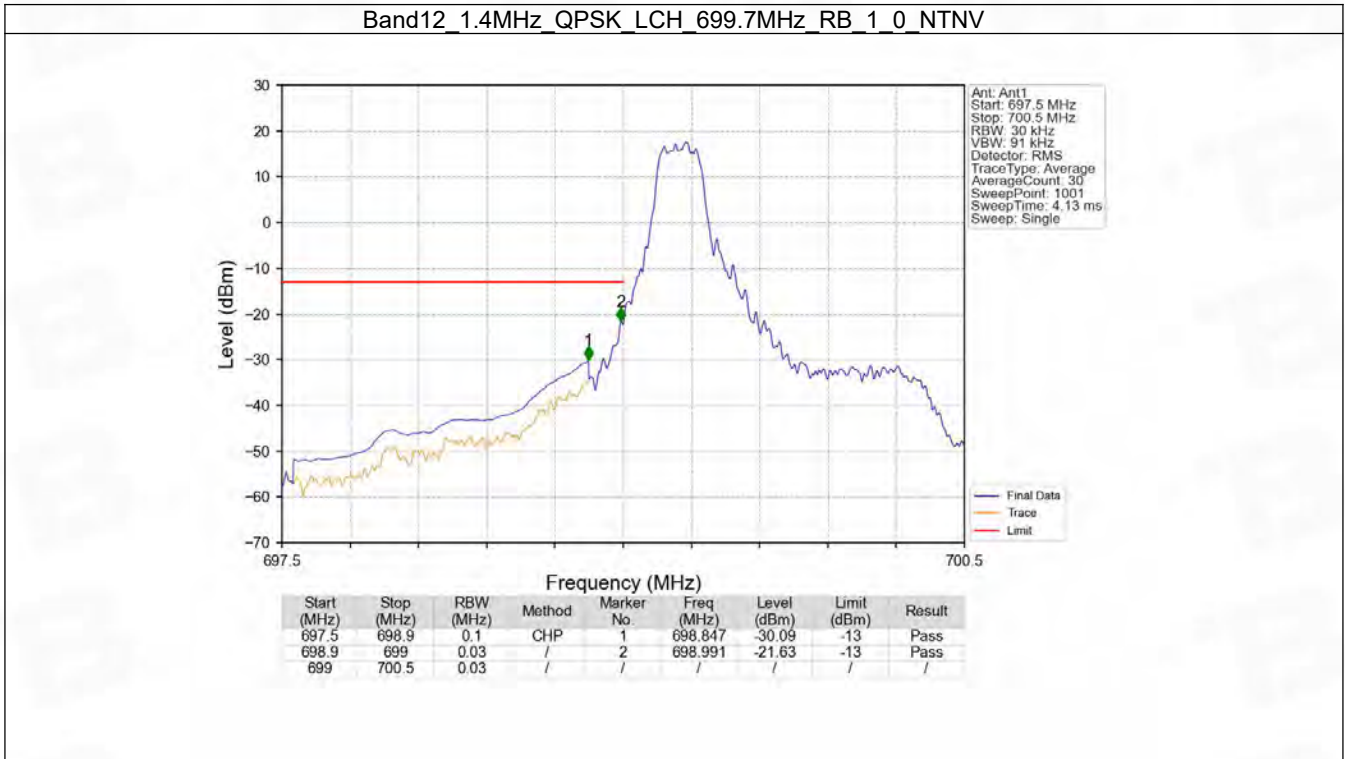
6. Spurious Emission

6.1 B12_1.4MHz

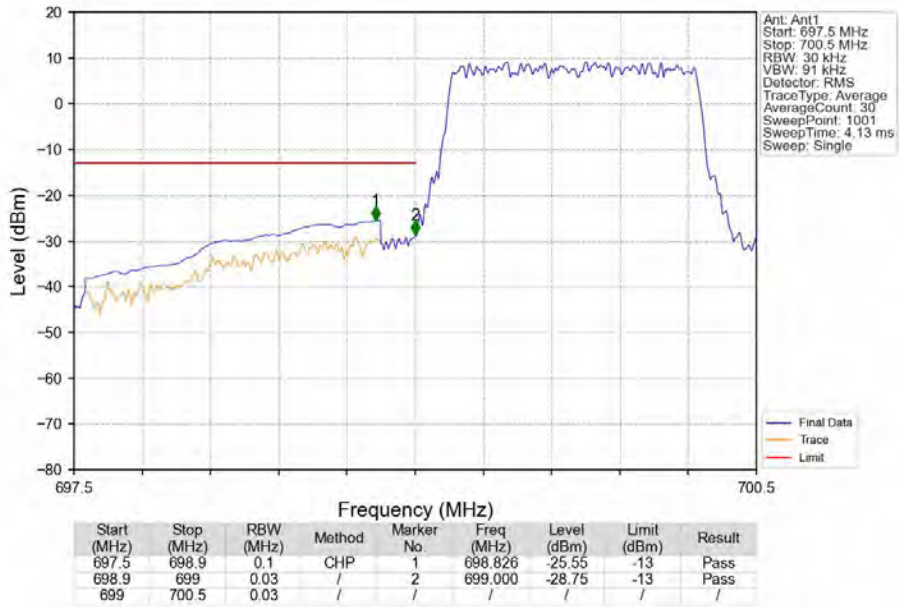
6.1.1 Test Result

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
	715.3	1	0	Refer To Test Graph		Pass
		1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
16QAM	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	715.3	1	0	Refer To Test Graph		Pass
		1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

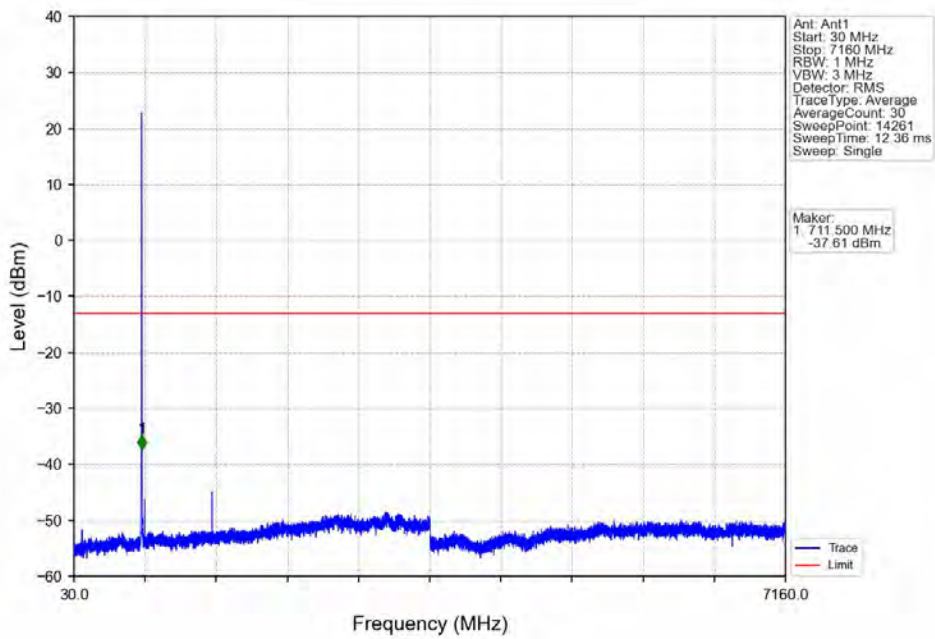
6.1.2 Test Graph



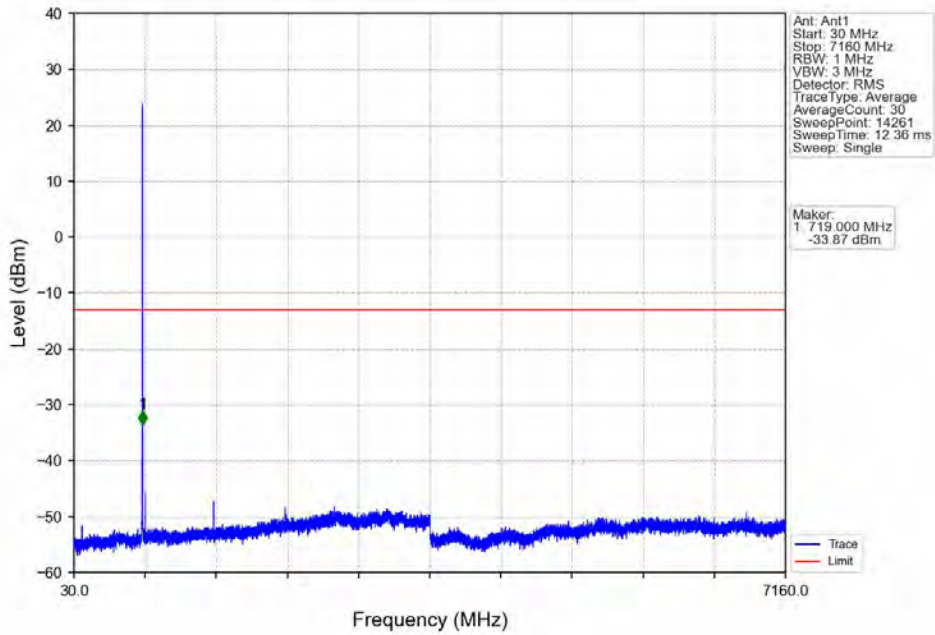
Band12 1.4MHz QPSK LCH 699.7MHz RB 6 0 NTV



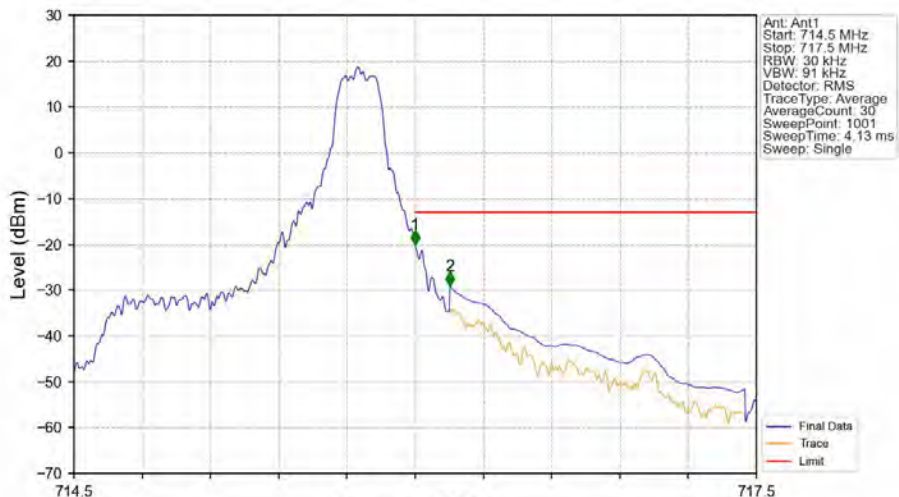
Band12 1.4MHz QPSK MCH 707.5MHz RB 1 0 NTV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTV

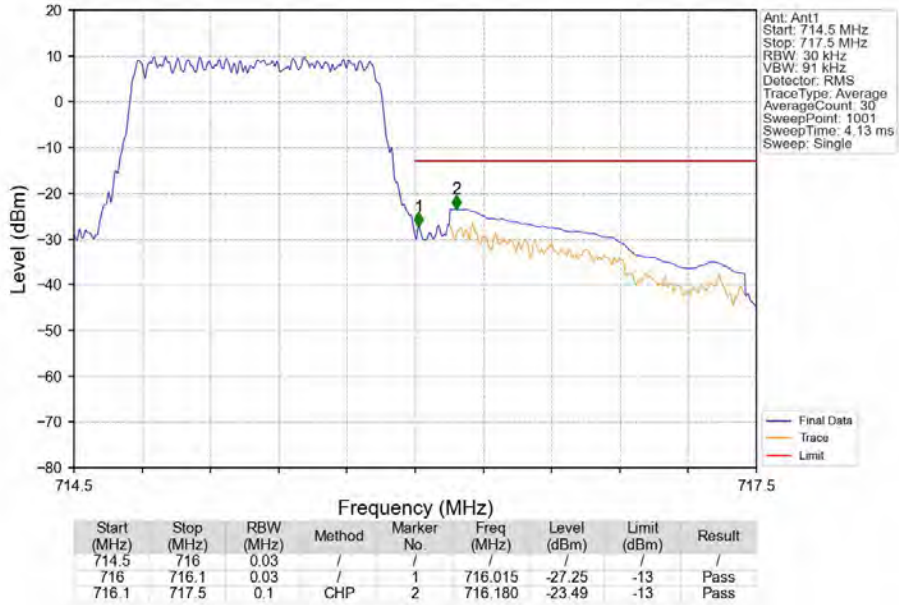


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTV

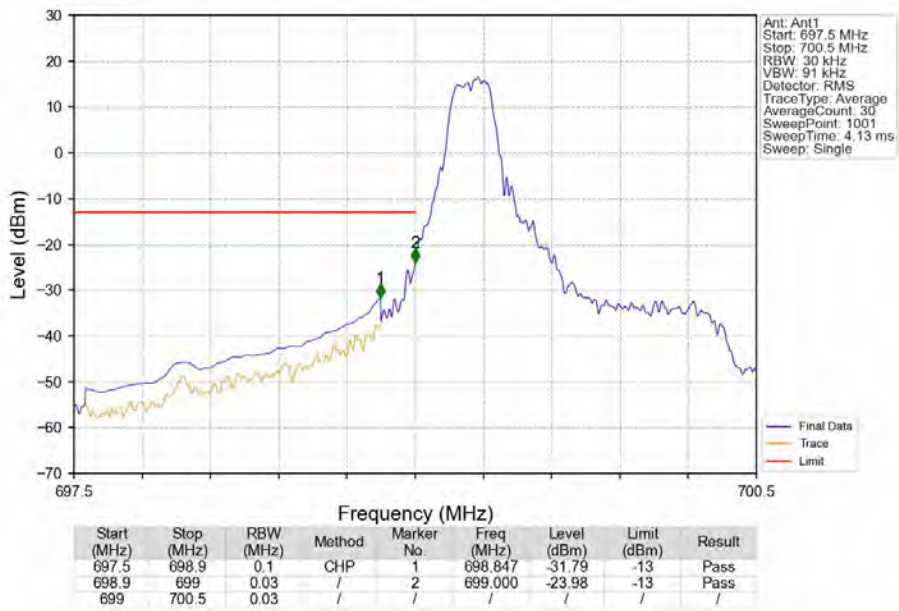


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	1	716.000	-20.17	-13	Pass
716	716.1	0.03	/	2	716.153	-29.16	-13	Pass
716.1	717.5	0.1	CHP					

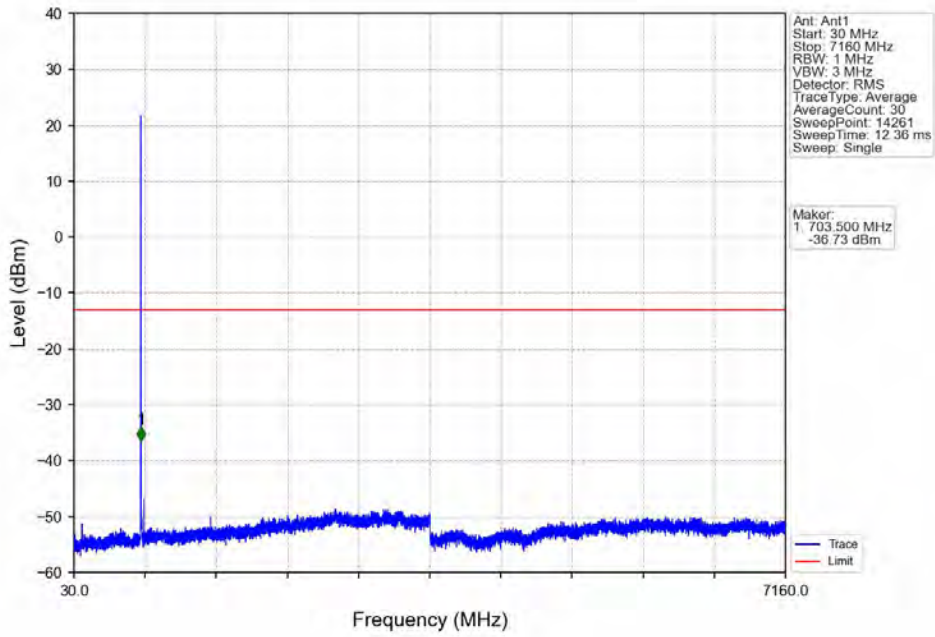
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



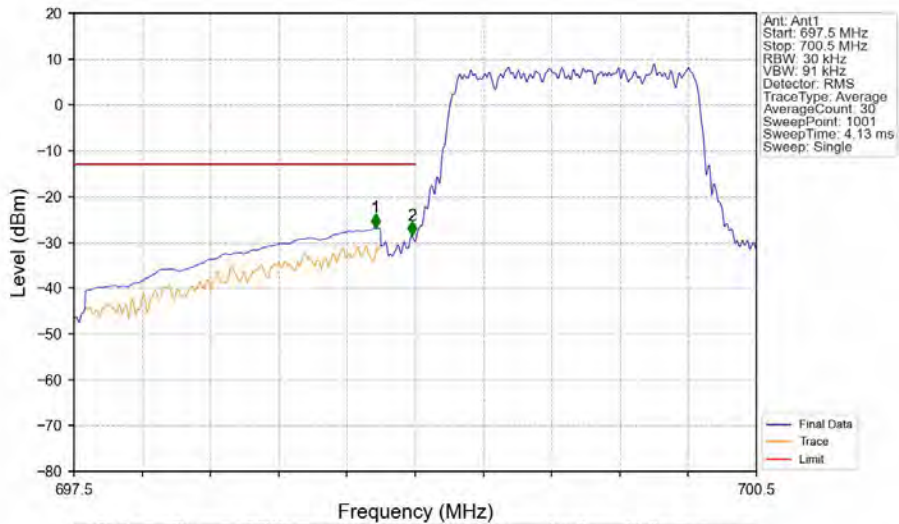
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



Band12 1.4MHz 16QAM LCH 699.7MHz RB 1 0 NTV

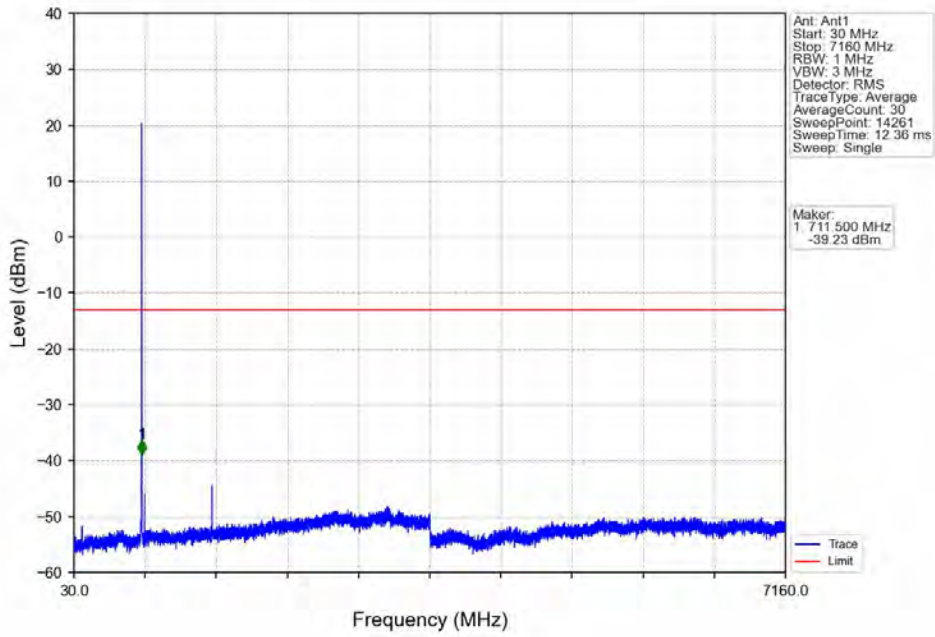


Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTV

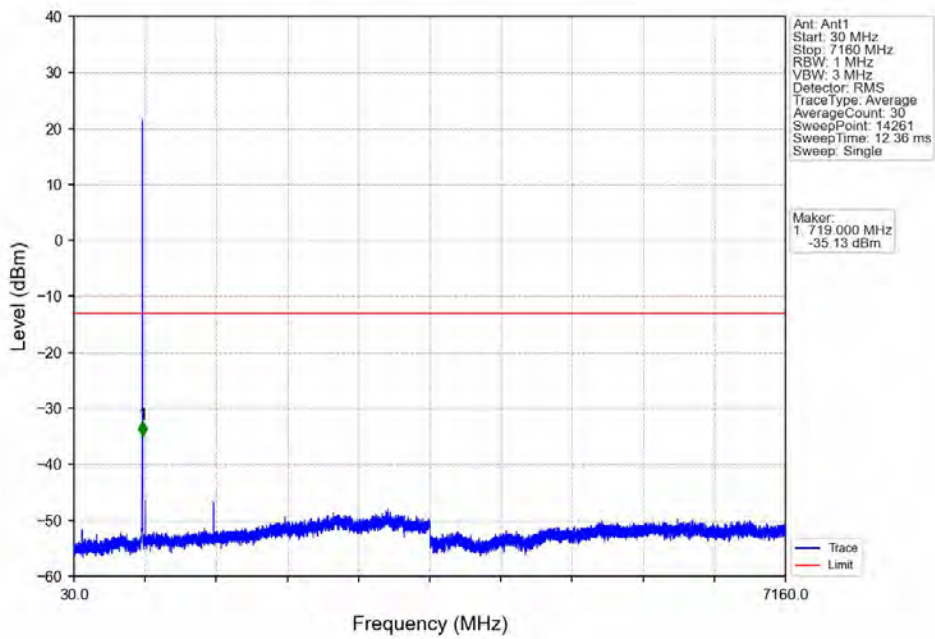


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.826	-26.83	-13	Pass
698.9	699	0.03	/	2	698.985	-28.55	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

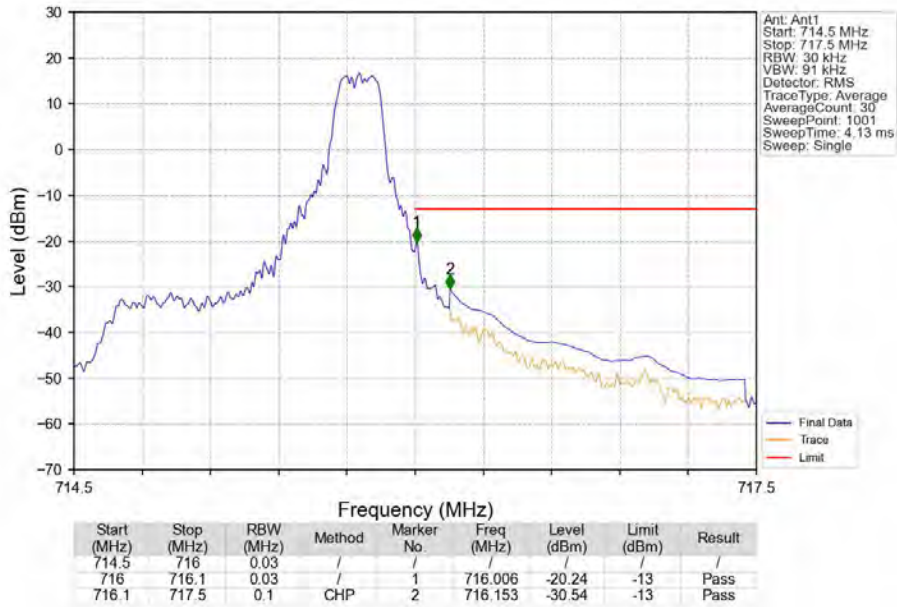
Band12 1.4MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



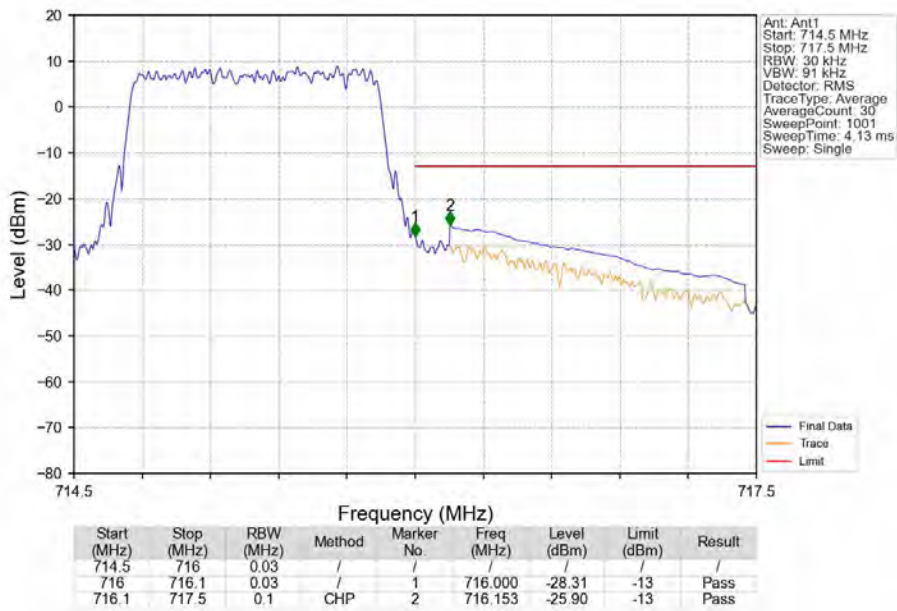
Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 0 NTNV



Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 5 NTNV



Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV

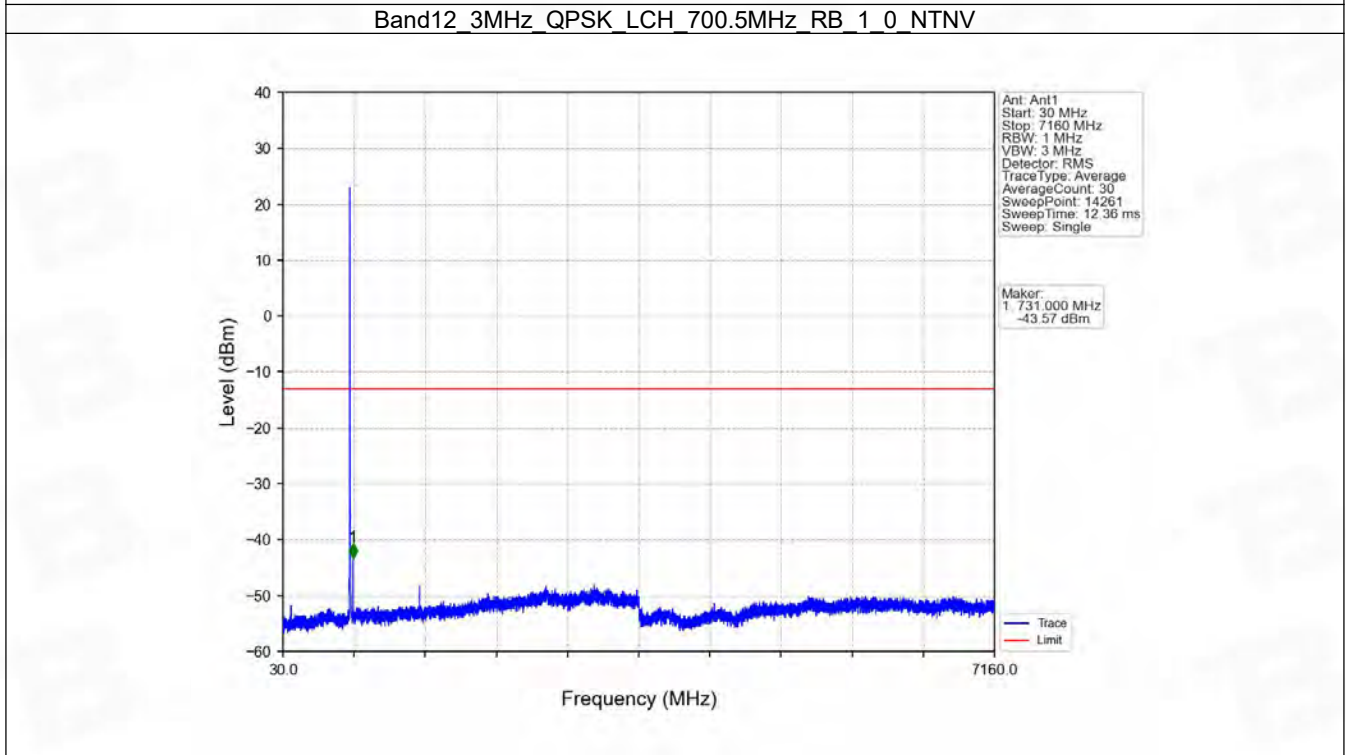
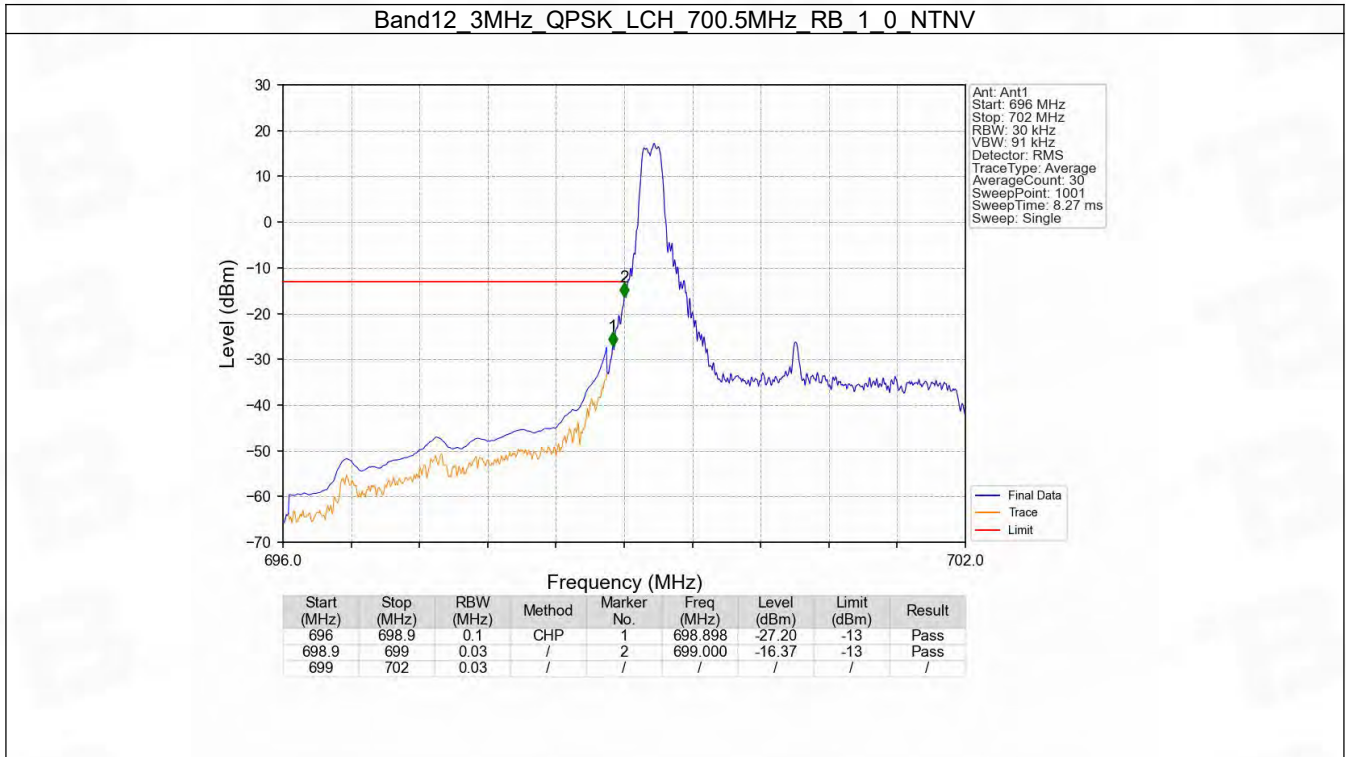


6.2 B12_3MHz

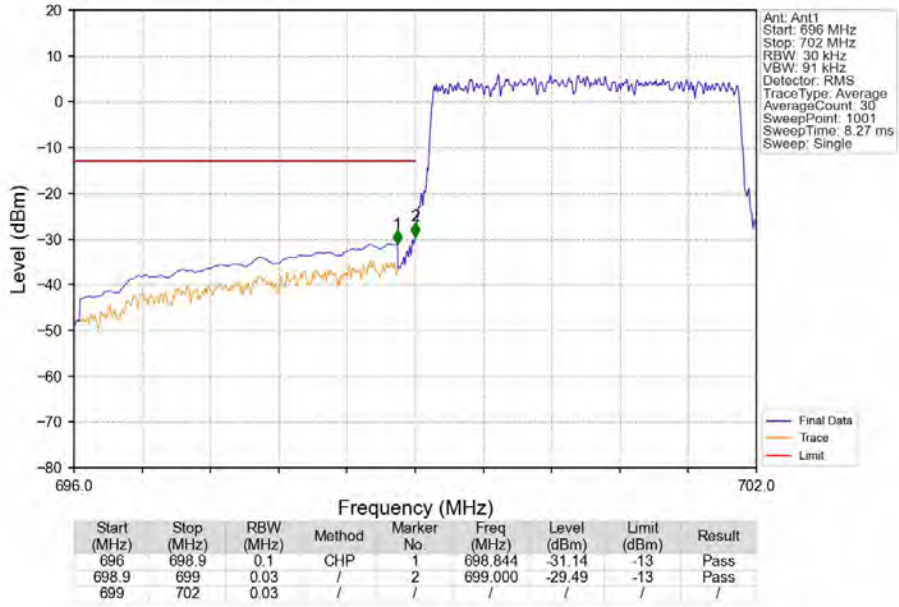
6.2.1 Test Result

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

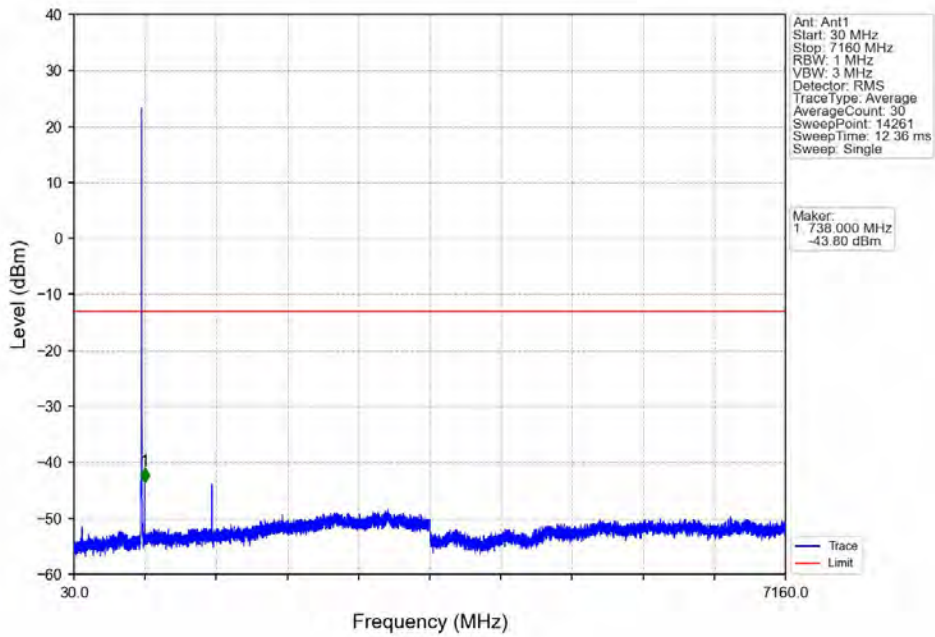
6.2.2 Test Graph



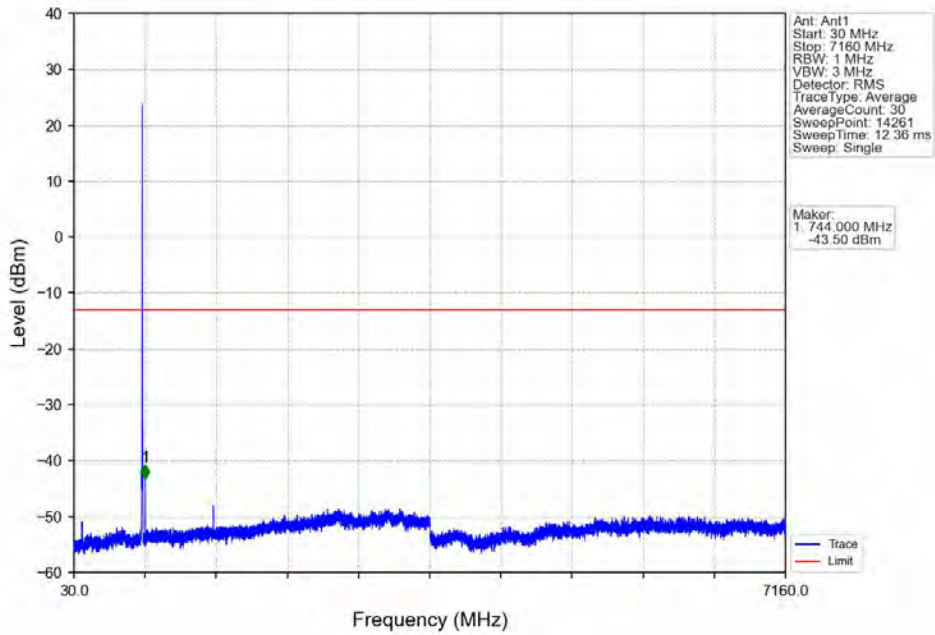
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



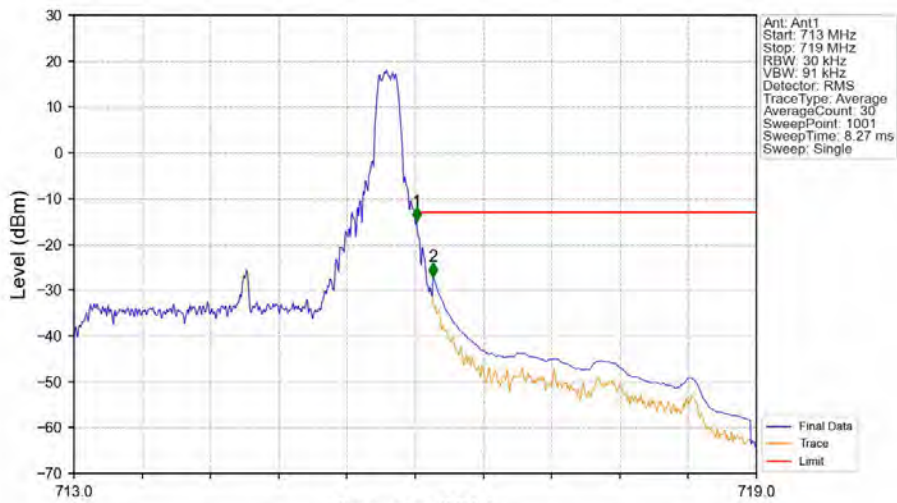
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV

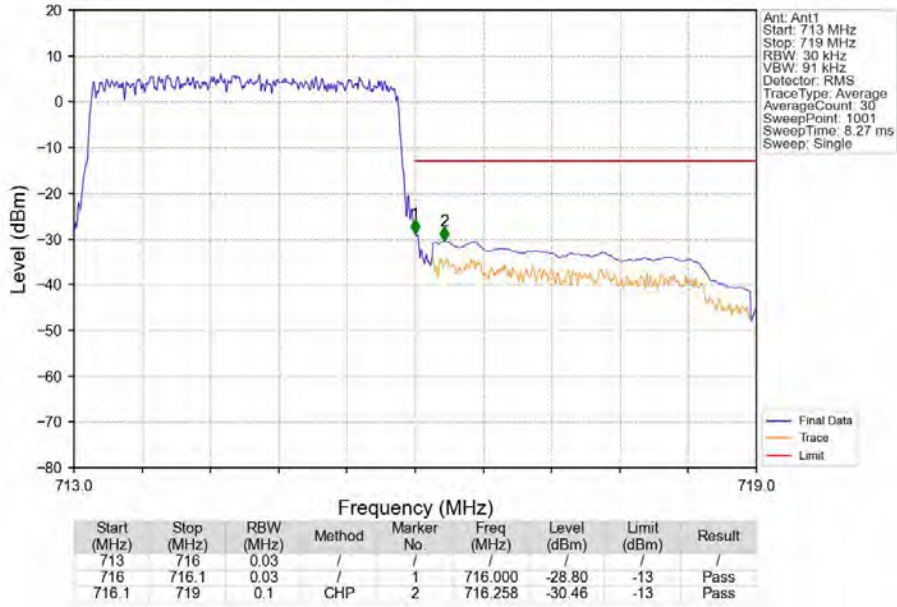


Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV

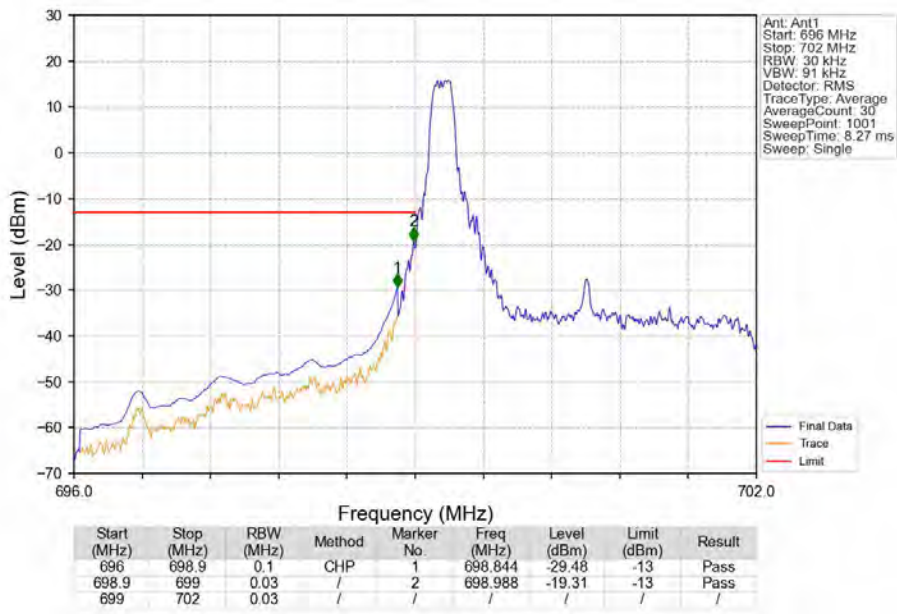


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	1	716.012	-14.96	-13	Pass
716	716.1	0.03	/	2	716.156	-27.07	-13	Pass

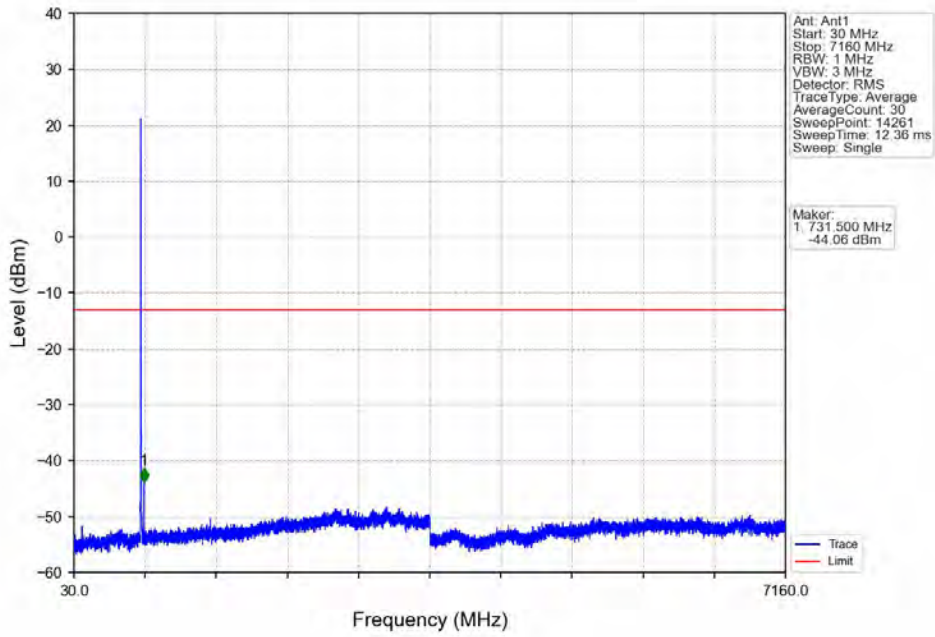
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



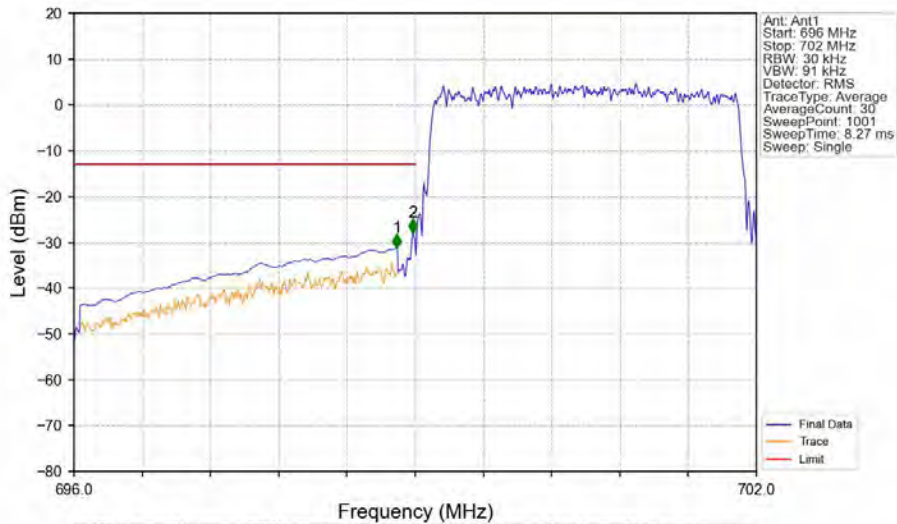
Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV



Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV

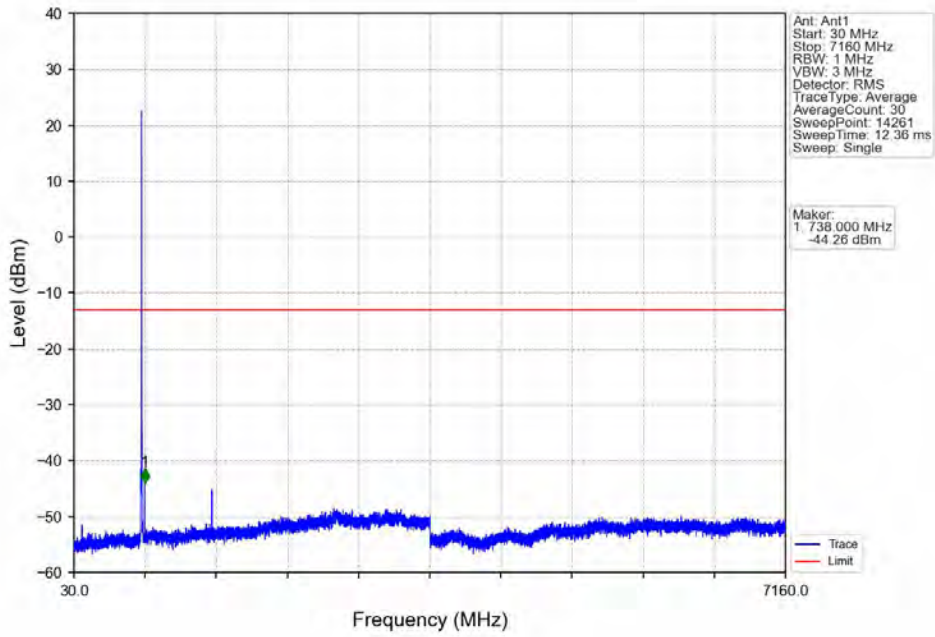


Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

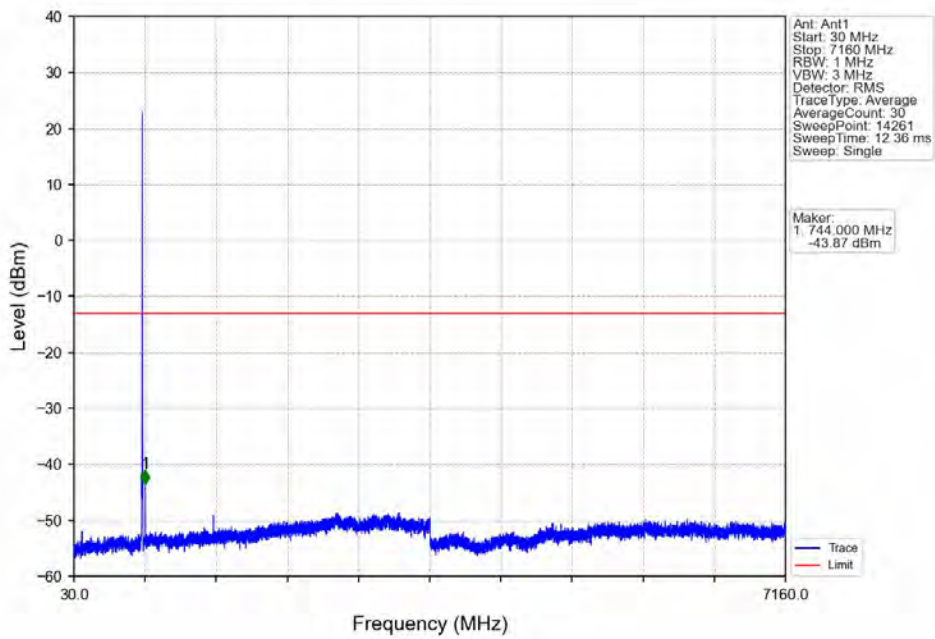


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.838	-31.24	-13	Pass
698.9	699	0.03	/	2	698.982	-27.88	-13	Pass
699	702	0.03	/	/	/	/	/	/

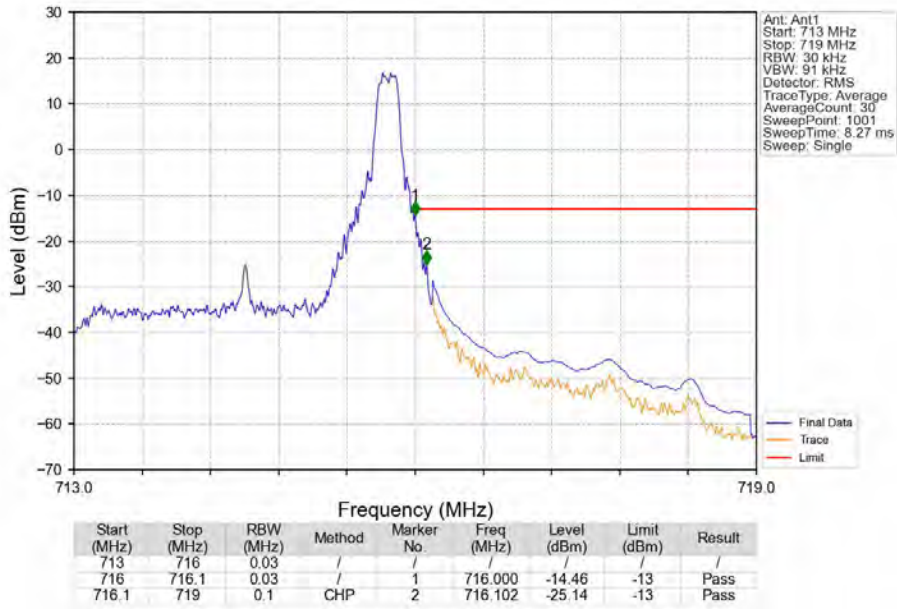
Band12_3MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



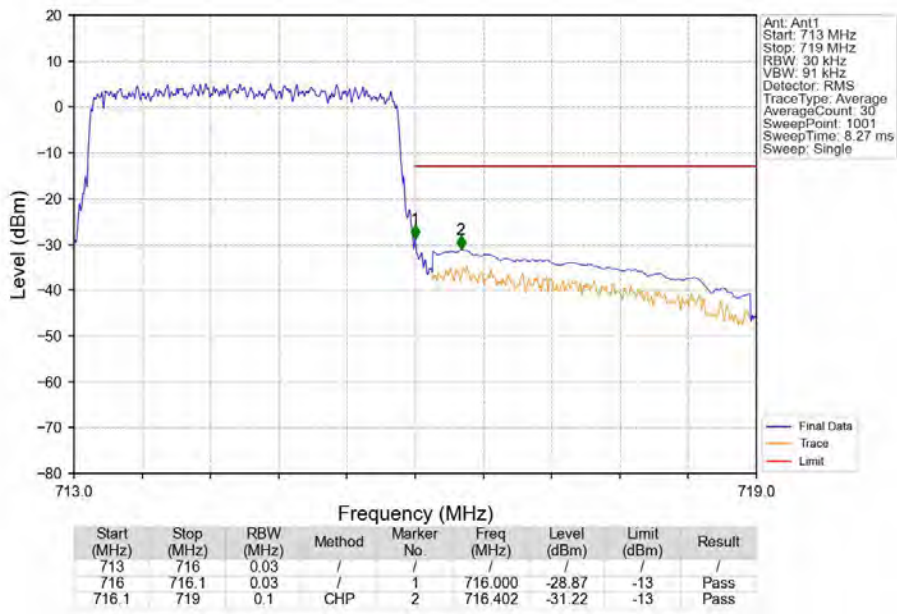
Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_14_NTV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTV

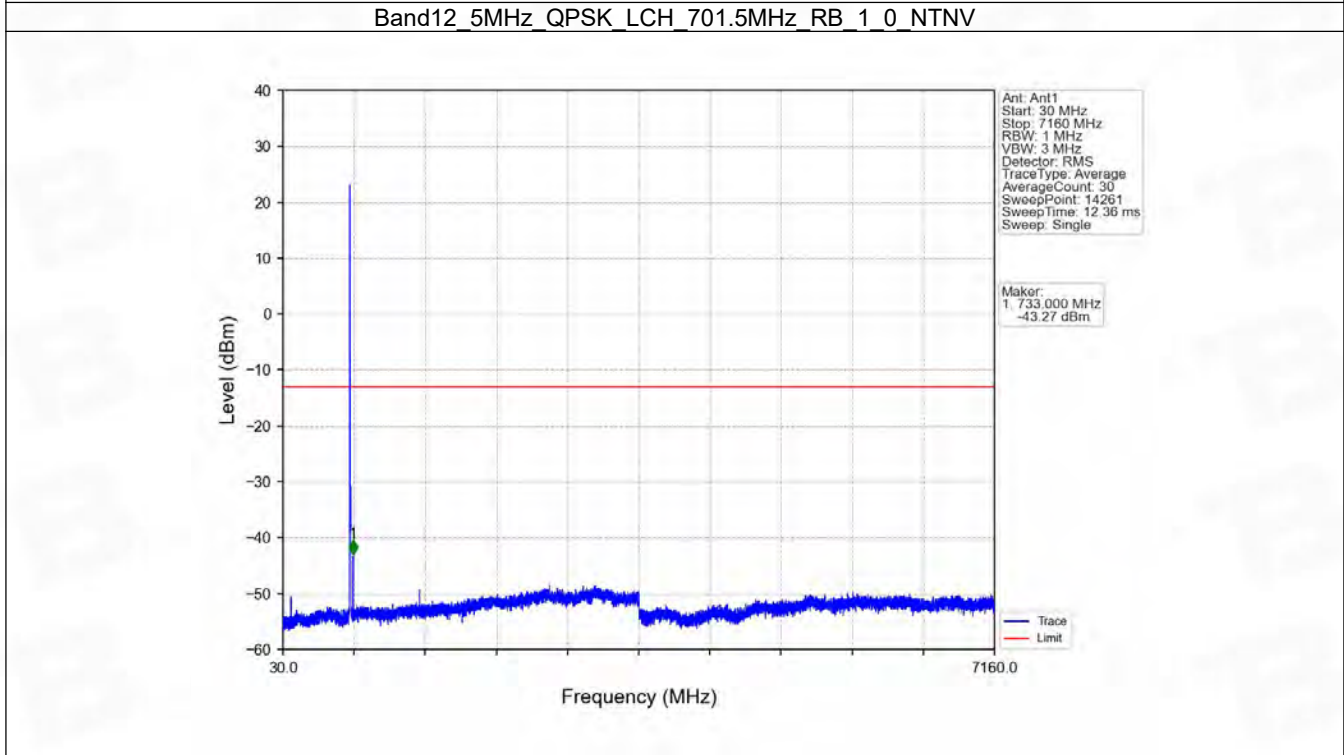
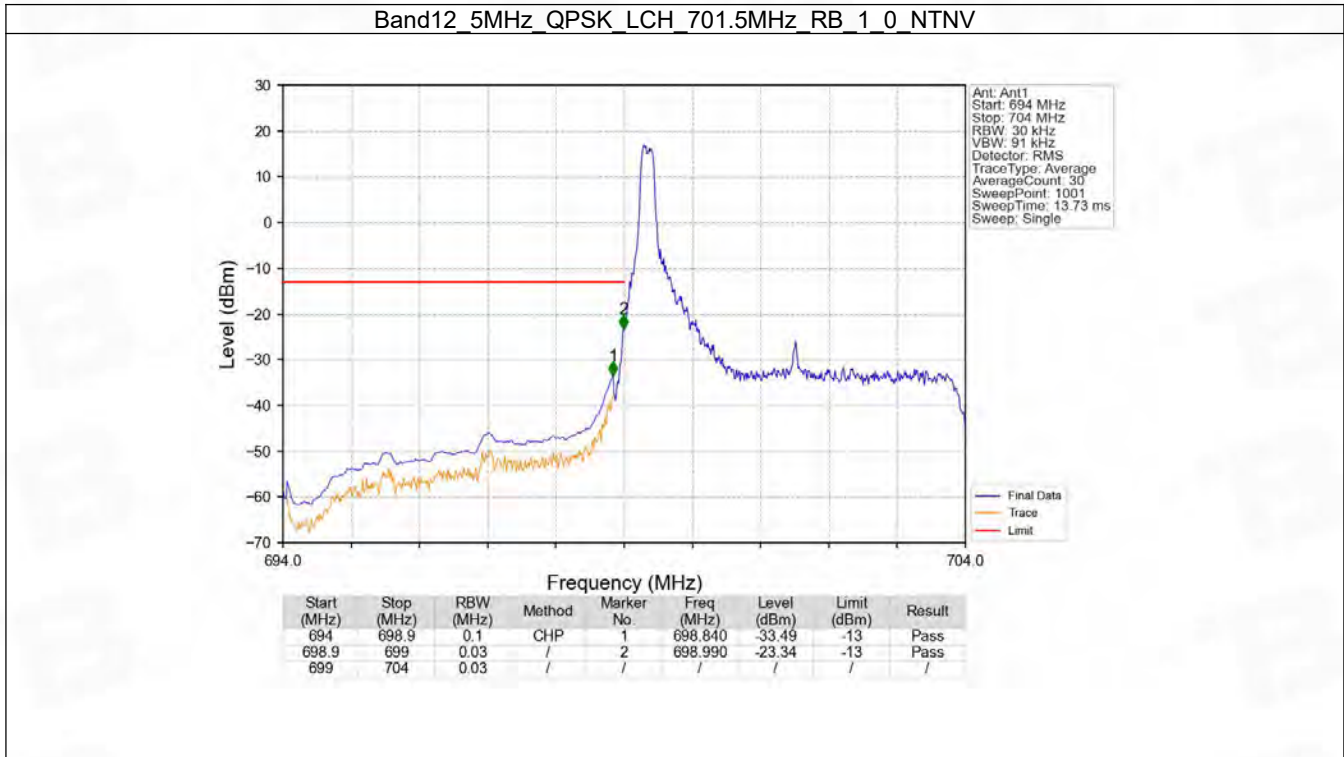


6.3 B12_5MHz

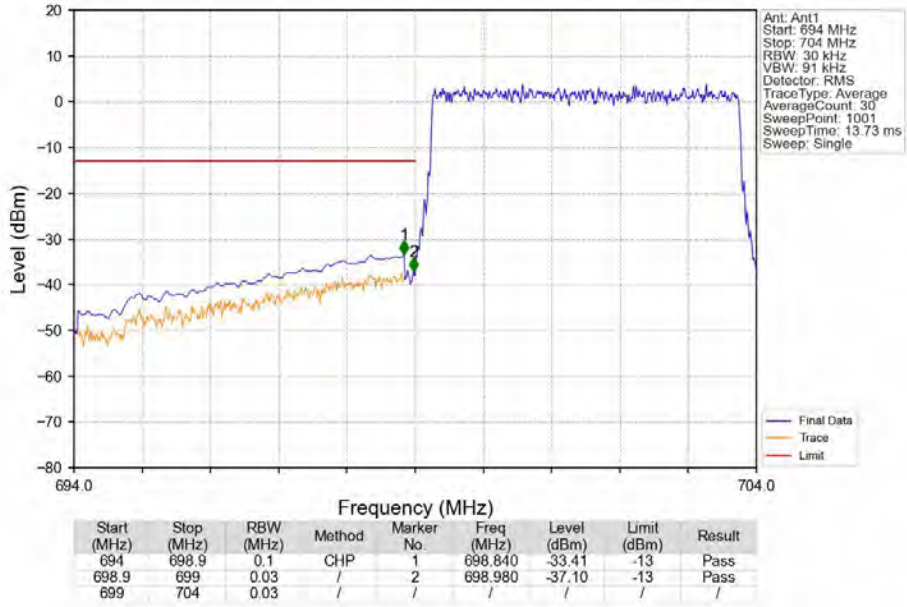
6.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTV						
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
16QAM	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

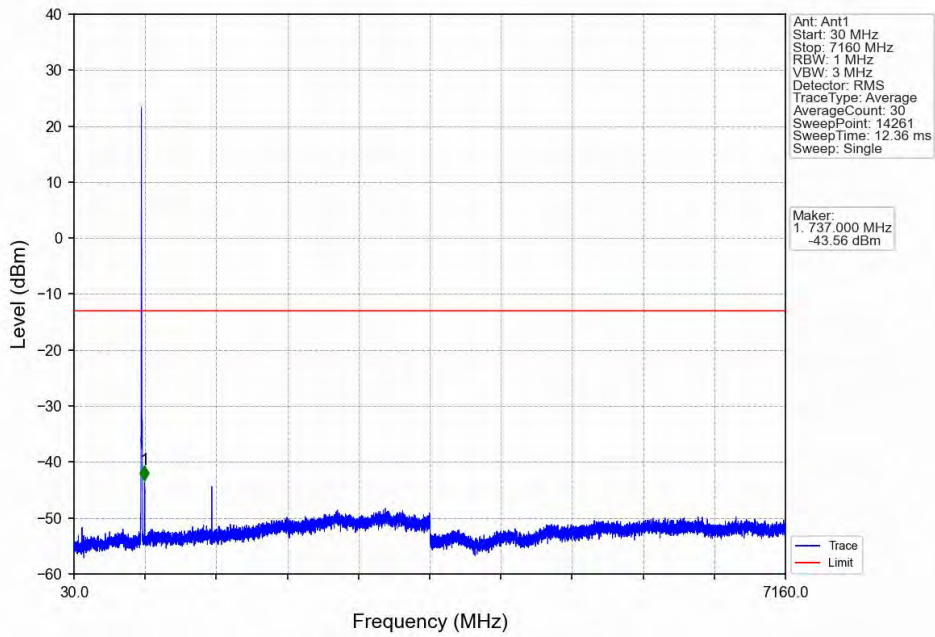
6.3.2 Test Graph



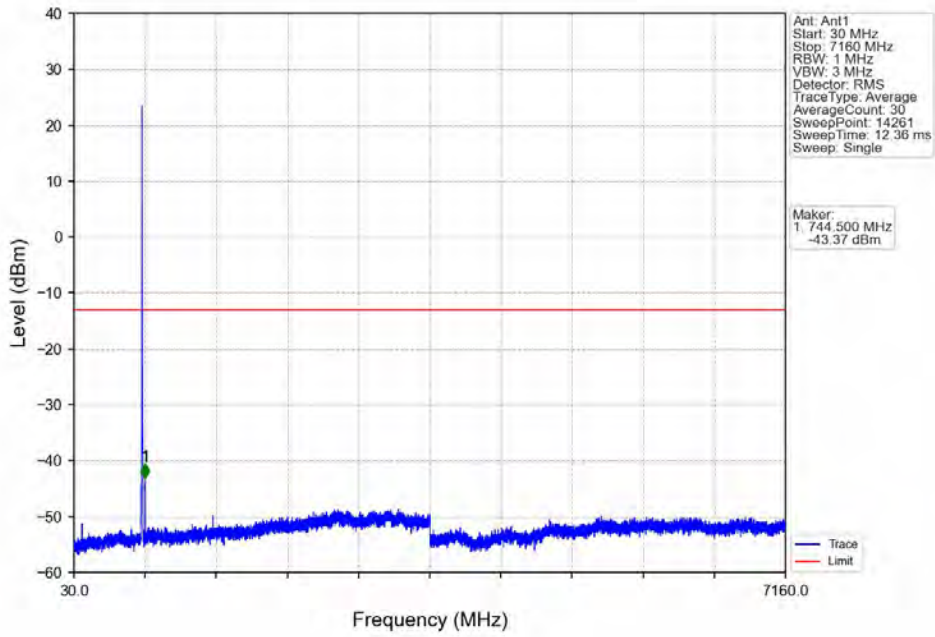
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



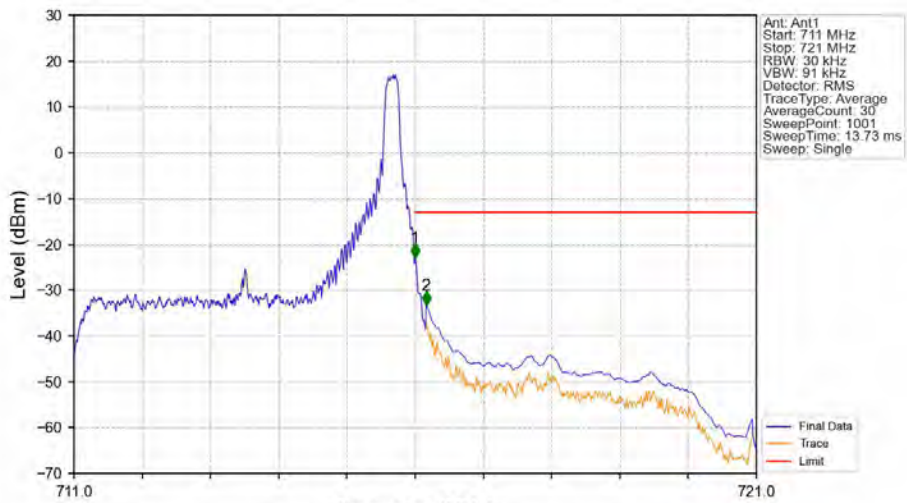
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

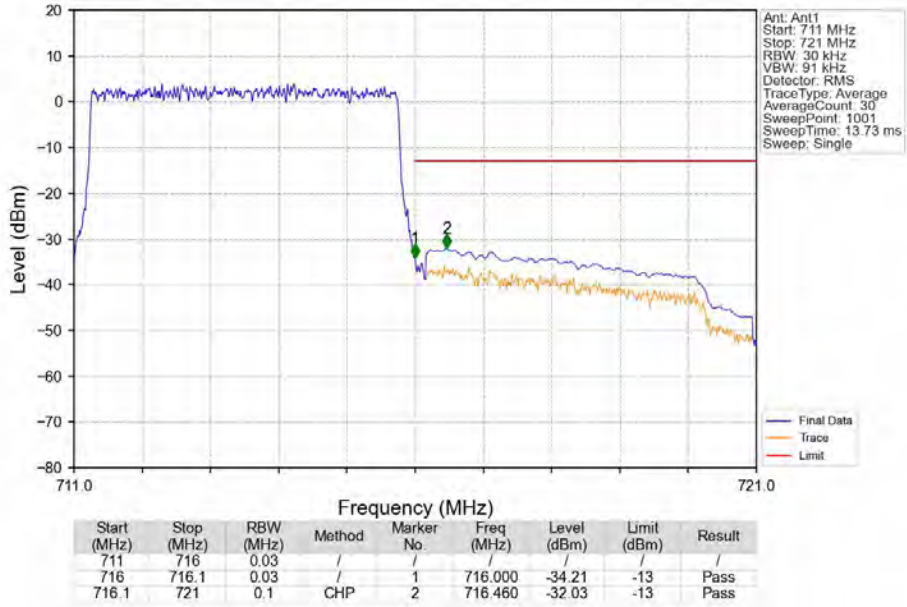


Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV

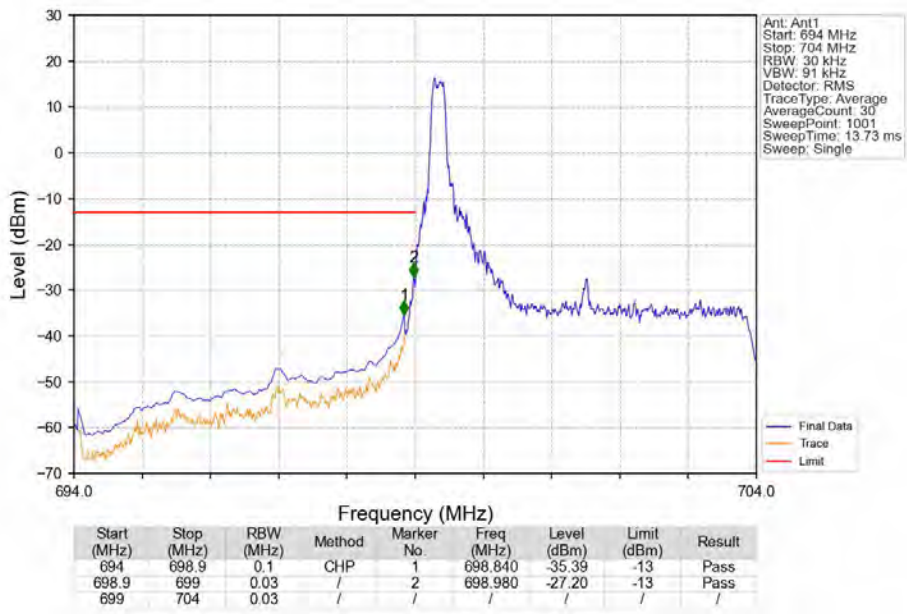


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	1	716.000	-22.98	-13	Pass
716	716.1	0.03	/	1	716.000	-22.98	-13	Pass
716.1	721	0.1	CHP	2	716.160	-33.31	-13	Pass

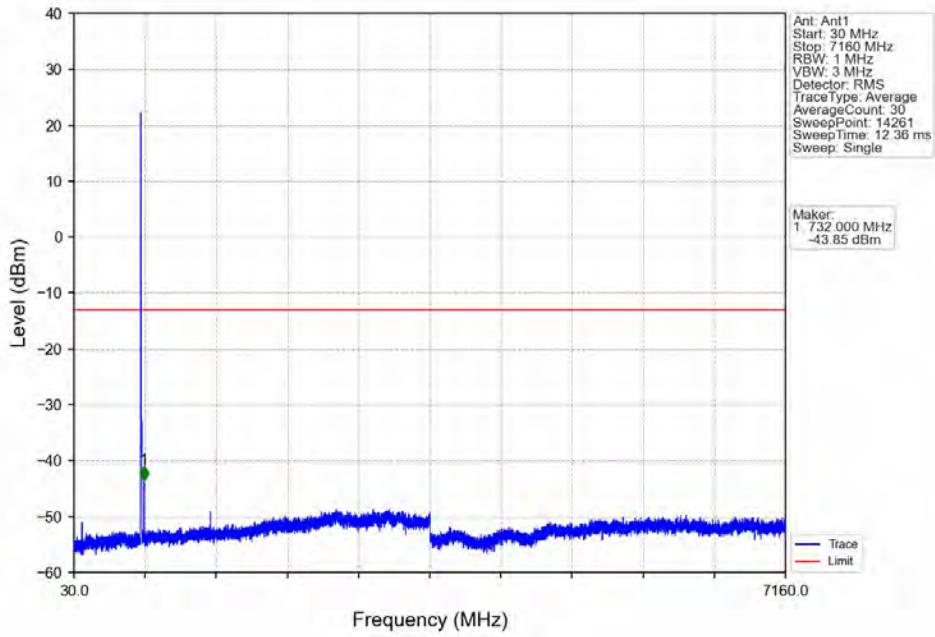
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



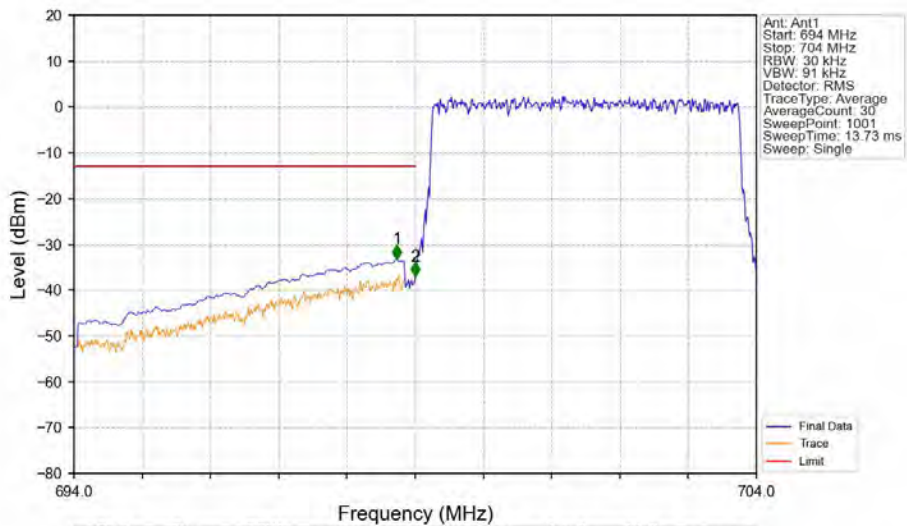
Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV



Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV

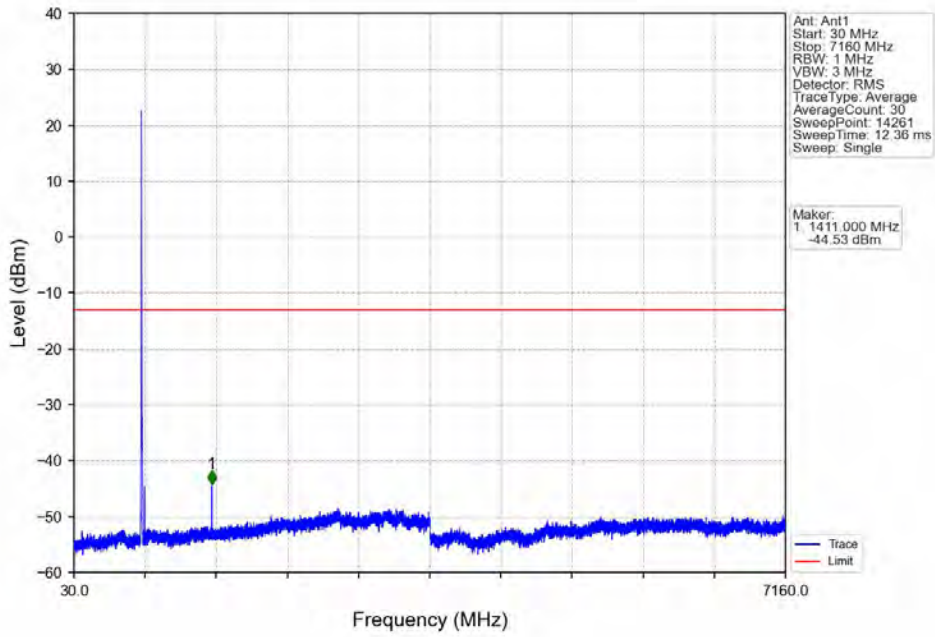


Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

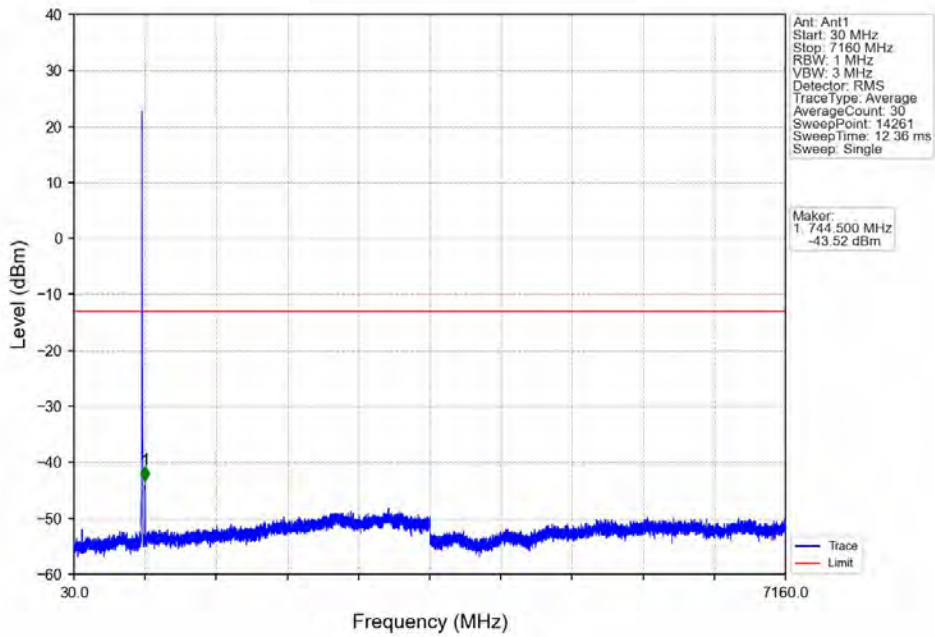


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.730	-33.19	-13	Pass
698.9	699	0.03	/	2	699.000	-36.91	-13	Pass
699	704	0.03	/	/	/	/	/	/

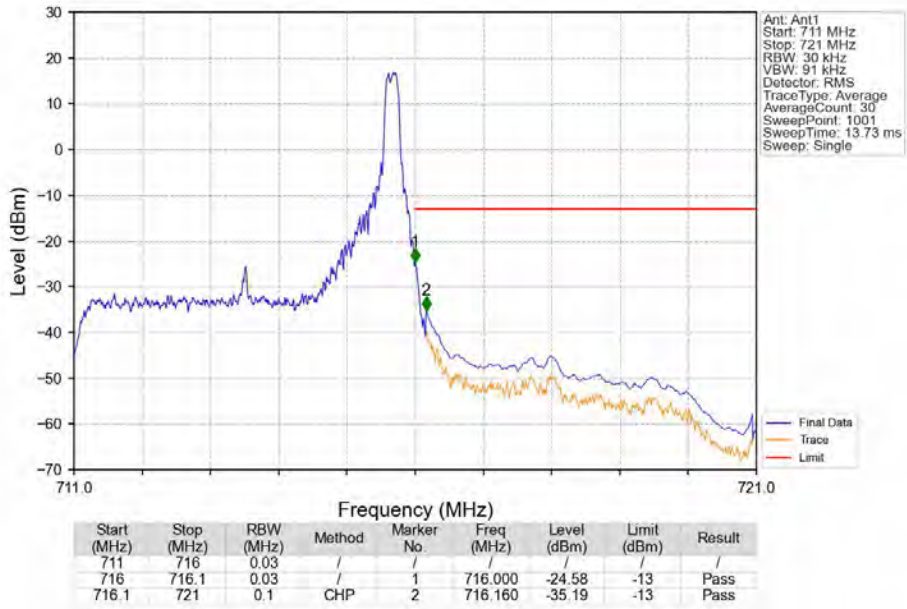
Band12_5MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



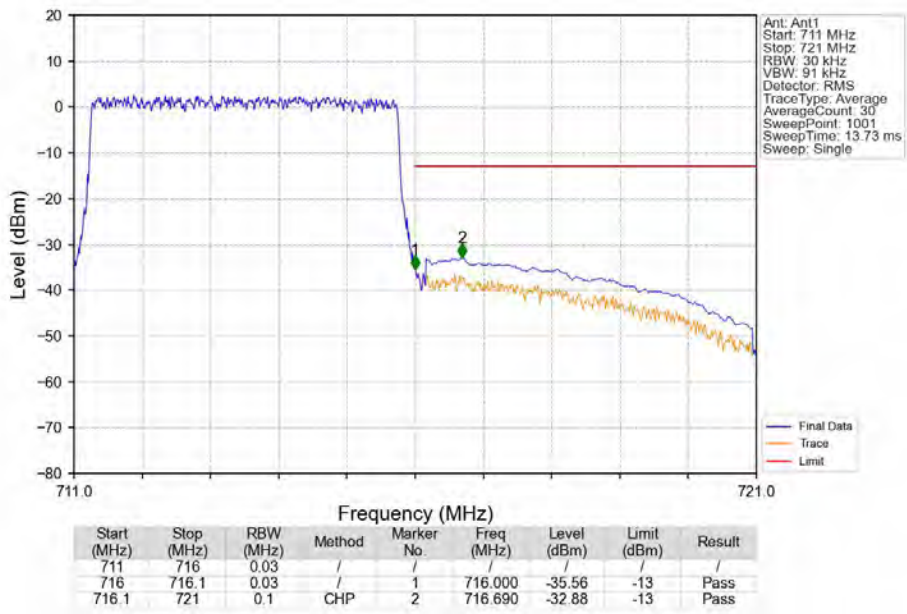
Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

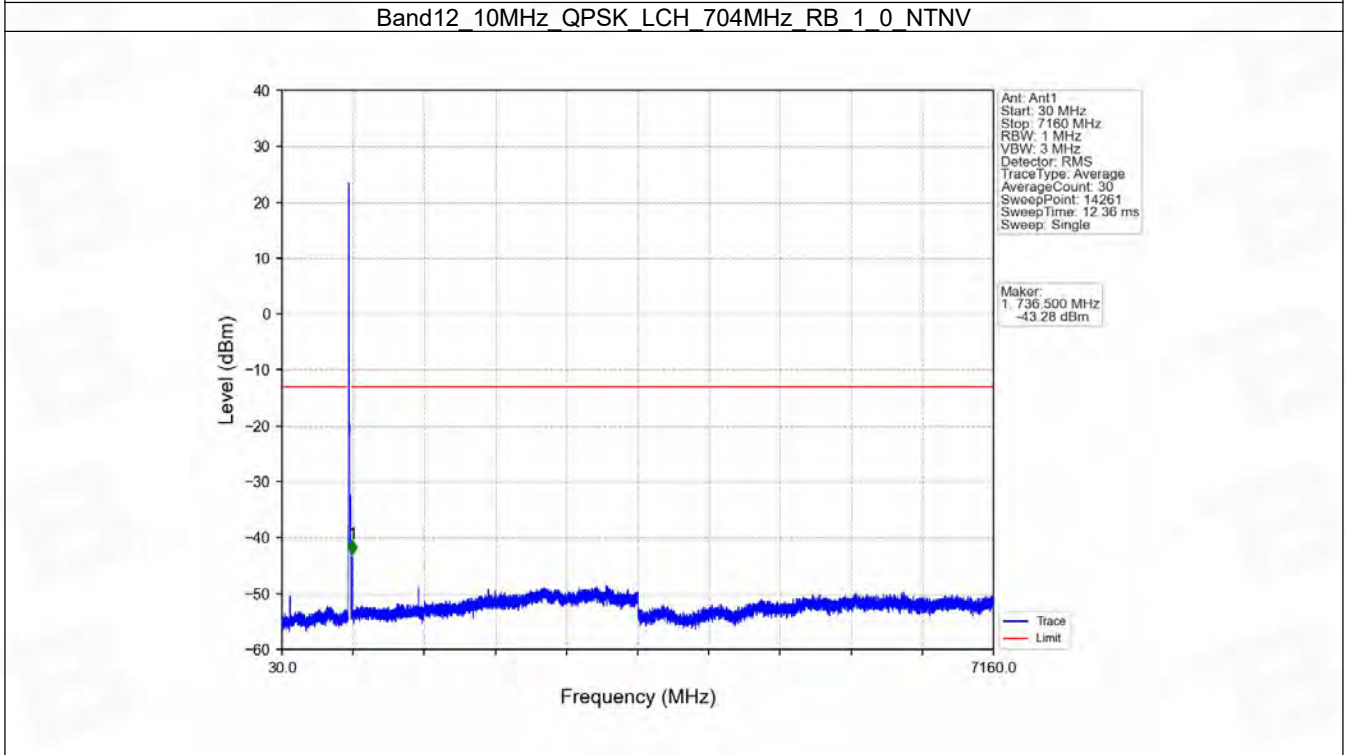
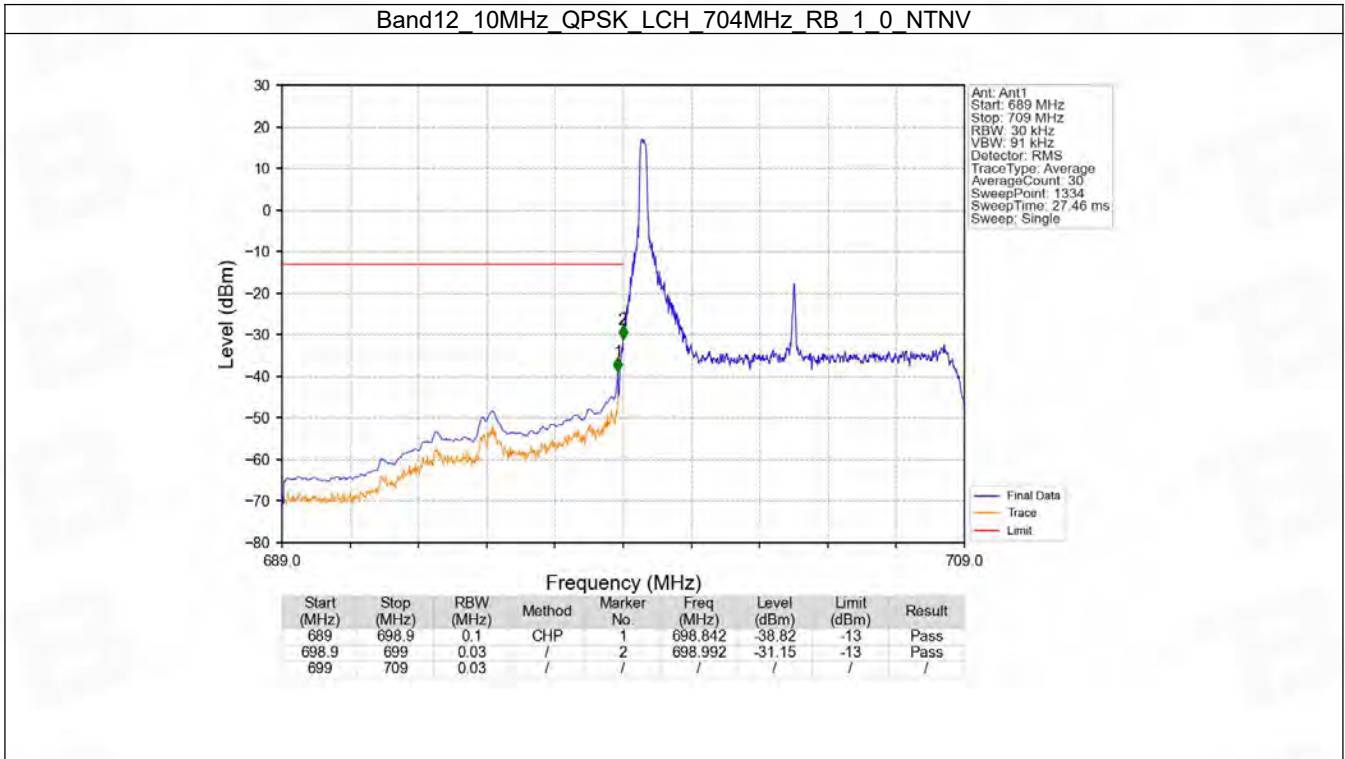


6.4 B12_10MHz

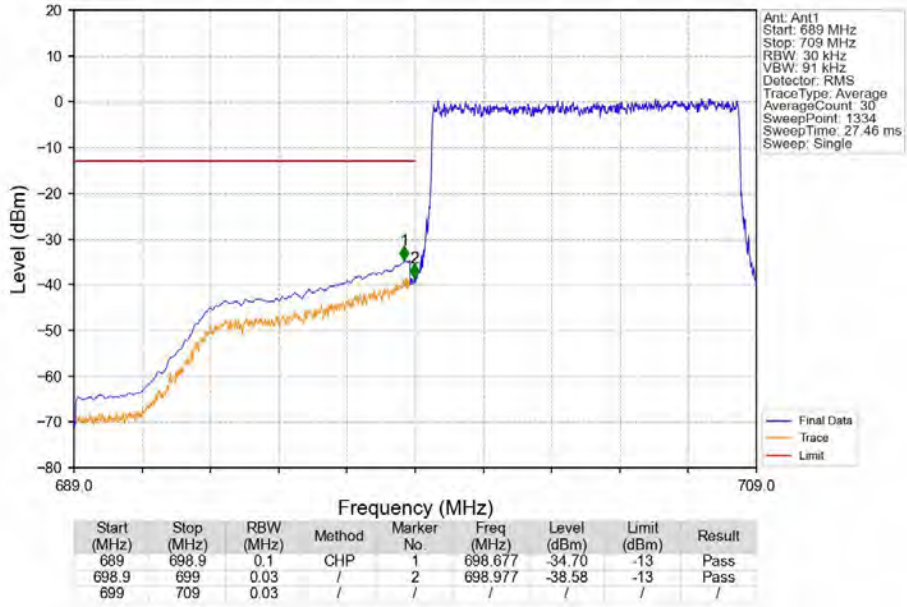
6.4.1 Test Result

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

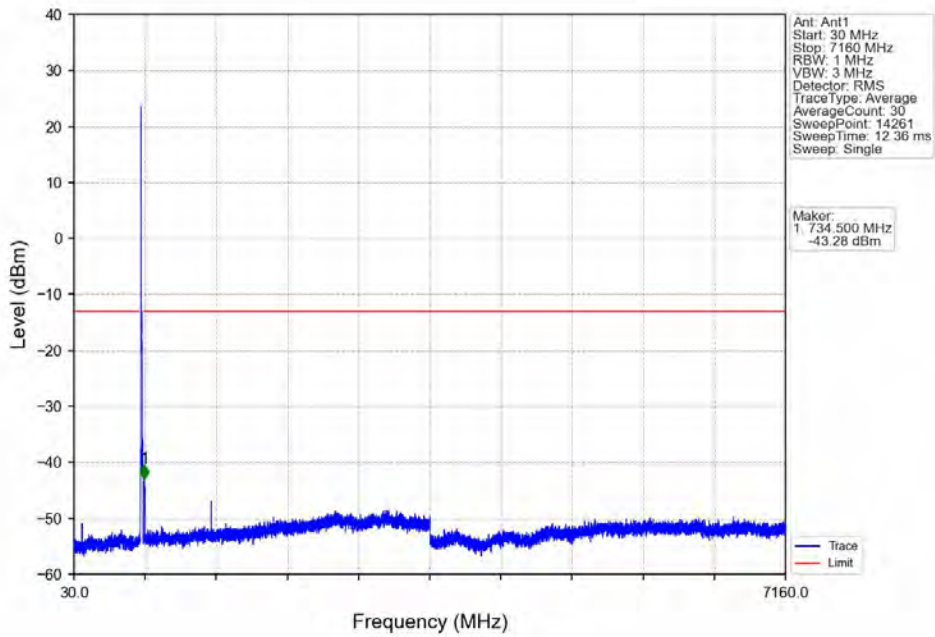
6.4.2 Test Graph



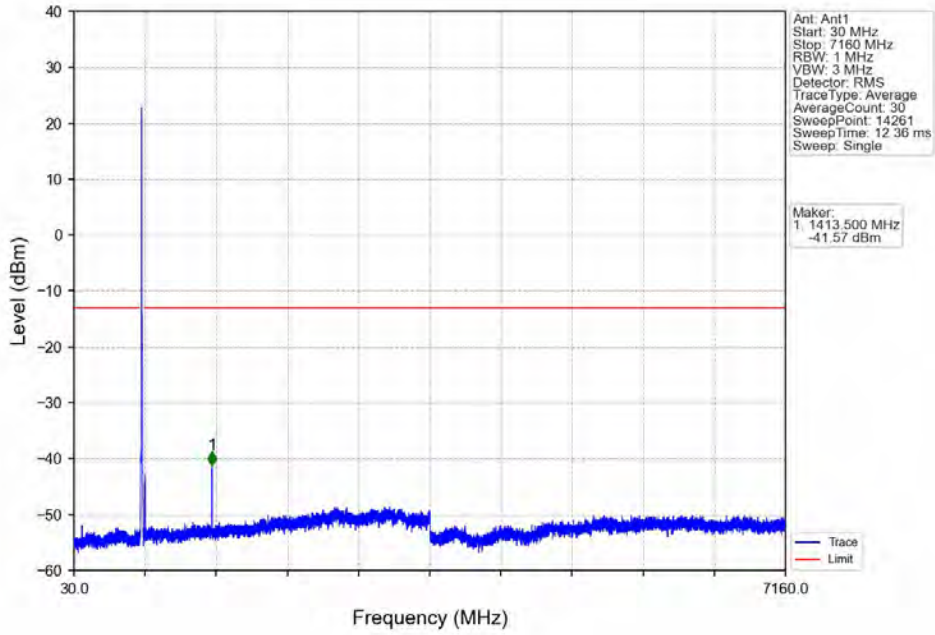
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



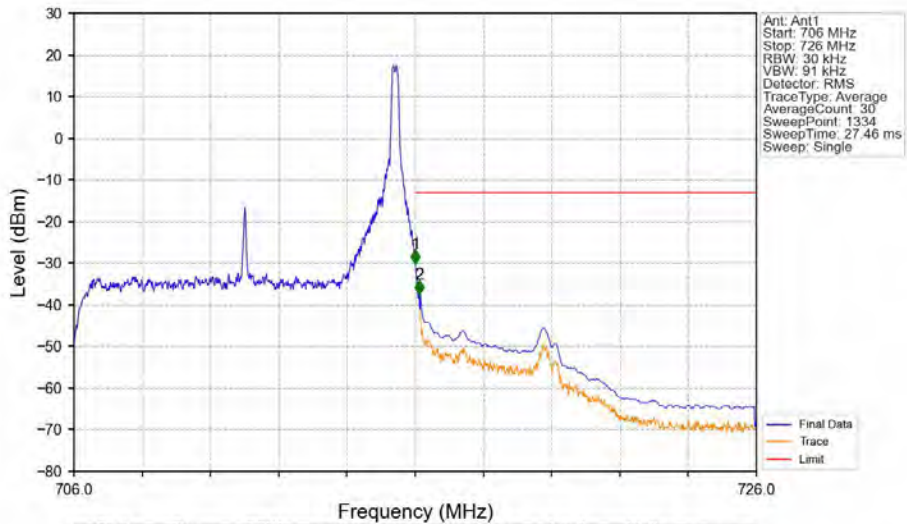
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

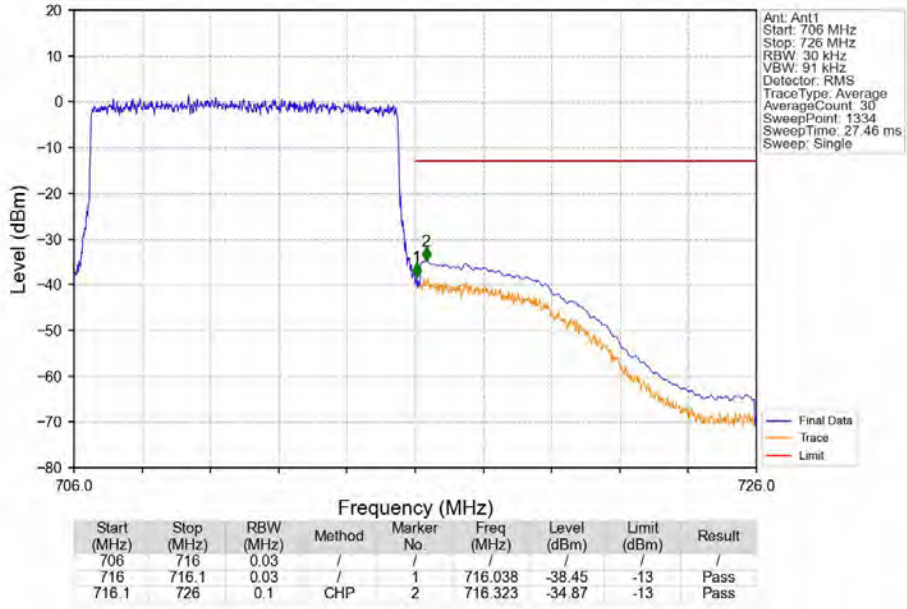


Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV

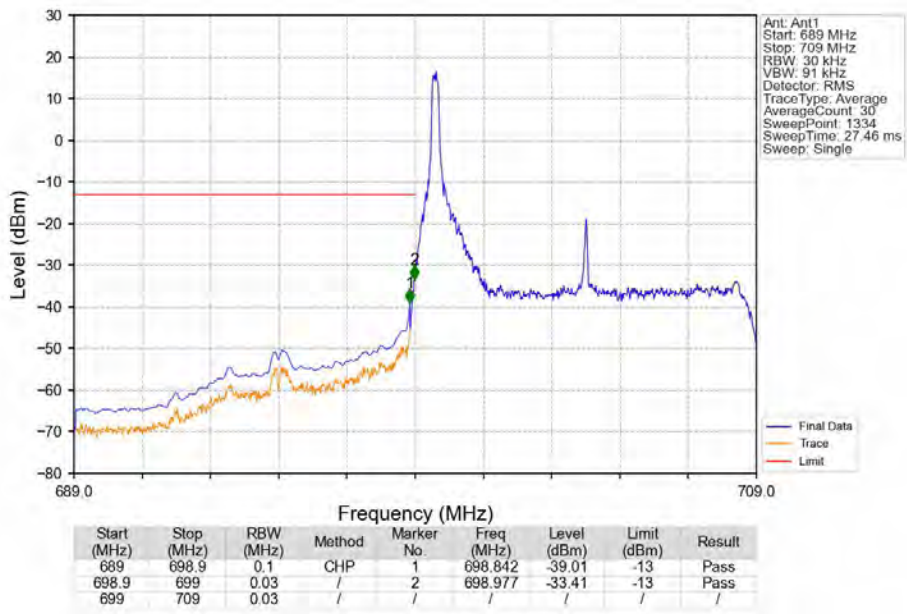


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	1	716.008	-30.13	-13	Pass
716	716.1	0.03	/	1	716.008	-30.13	-13	Pass
716.1	726	0.1	CHP	2	716.113	-37.48	-13	Pass

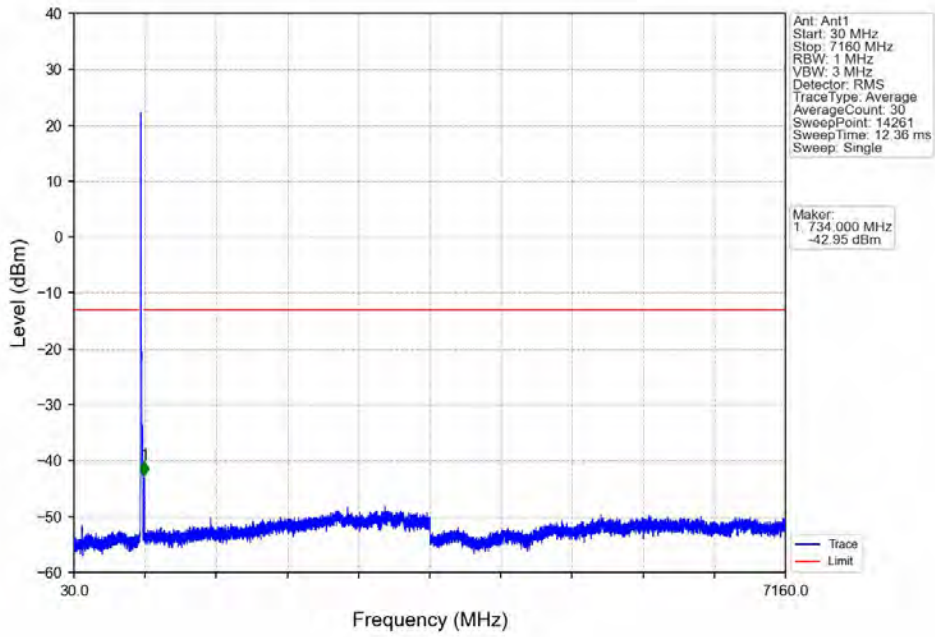
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



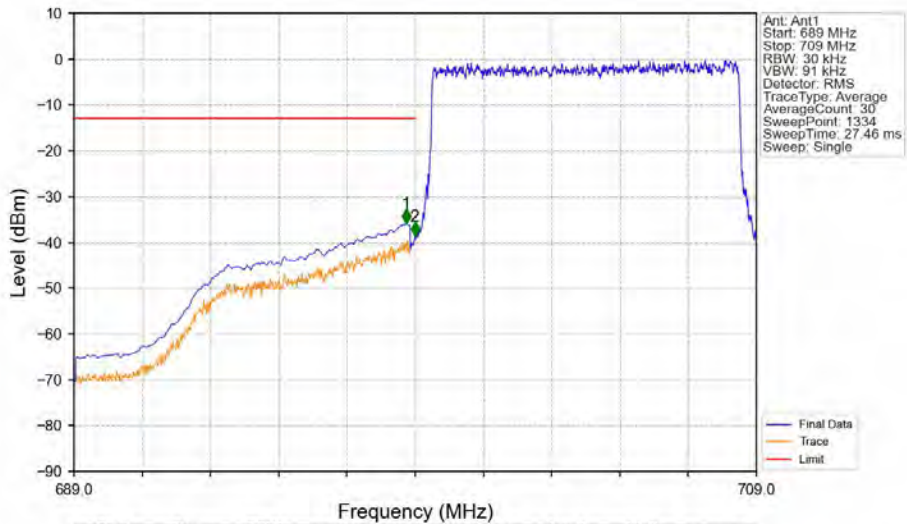
Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV



Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV

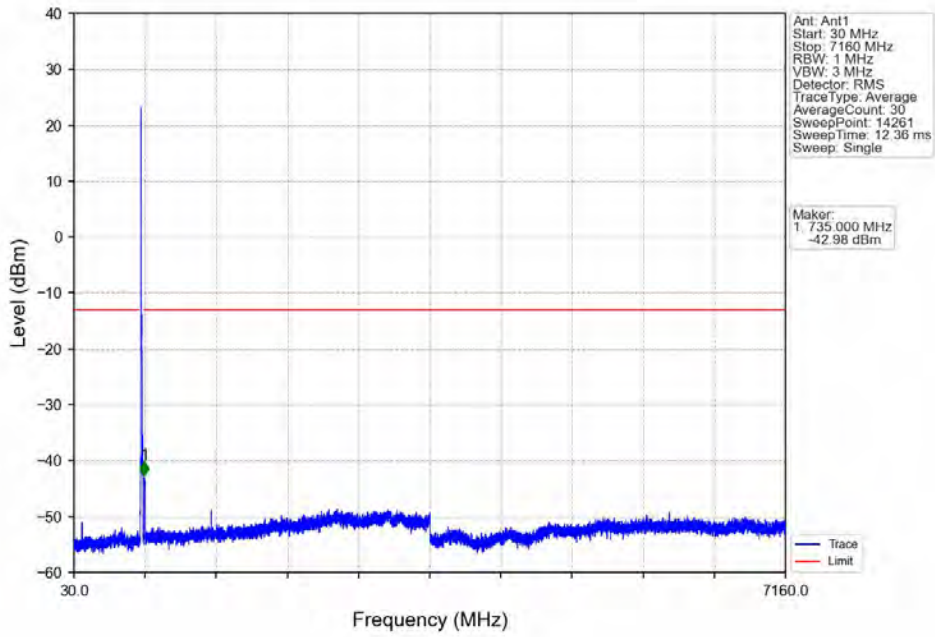


Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV

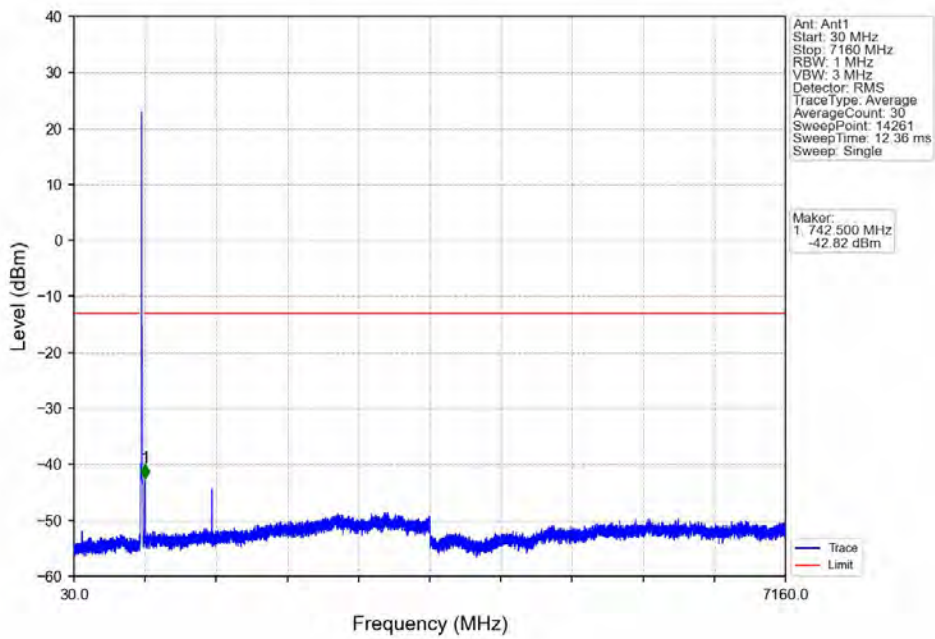


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.737	-35.86	-13	Pass
698.9	699	0.03	/	2	698.992	-38.67	-13	Pass
699	709	0.03	/	/	/	/	/	/

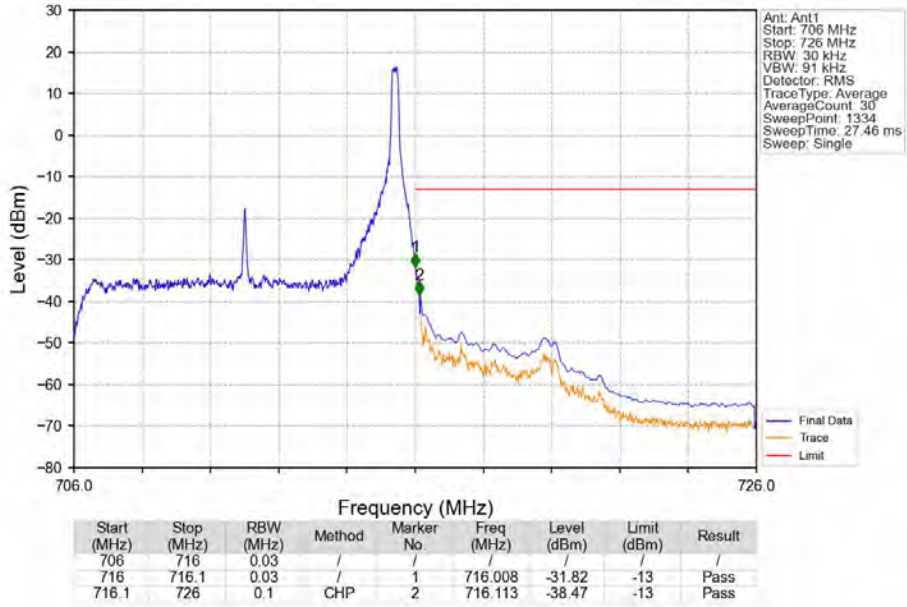
Band12_10MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



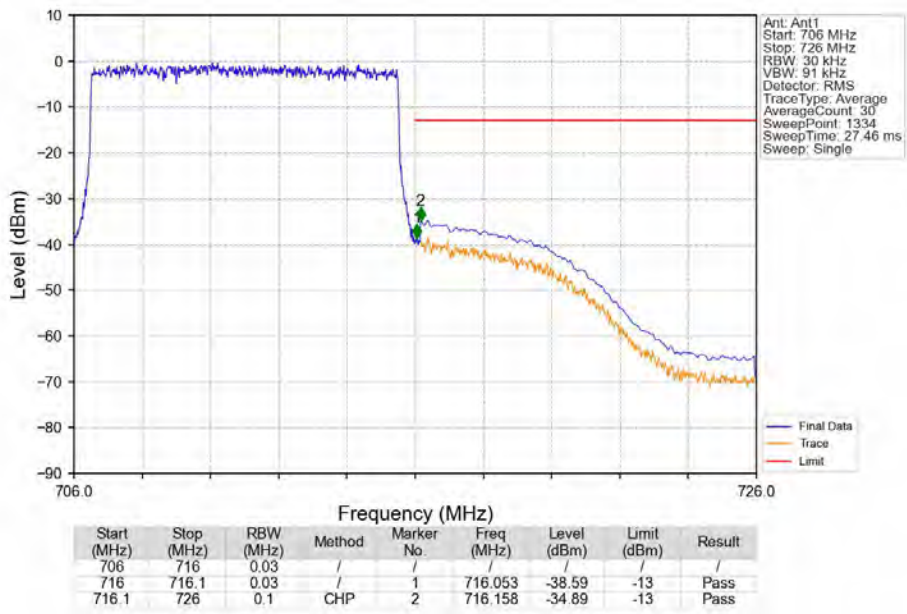
Band12_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_1_49_NTV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTV



7. Form731

7.1 Form731_Power

7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
12	1.4	699.7	715.3	0.2460	0.0099	ppm	1M11G7D	27H	23.91
12	1.4	699.7	715.3	0.1977	0.0077	ppm	1M11W7D	27H	22.96
12	3	700.5	714.5	0.2415	0.0079	ppm	2M73G7D	27H	23.83
12	3	700.5	714.5	0.2070	0.0097	ppm	2M73W7D	27H	23.16
12	5	701.5	713.5	0.2541	0.0075	ppm	4M59G7D	27H	24.05
12	5	701.5	713.5	0.2099	0.0098	ppm	4M56W7D	27H	23.22
12	10	704	711	0.2582	0.0061	ppm	9M06G7D	27H	24.12
12	10	704	711	0.2208	0.0076	ppm	9M06W7D	27H	23.44

7.2 Form731_ERP

7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
12	1.4	699.7	715.3	0.0557	0.0099	ppm	1M11G7D	27H	17.46
12	1.4	699.7	715.3	0.0448	0.0077	ppm	1M11W7D	27H	16.51
12	3	700.5	714.5	0.0547	0.0079	ppm	2M73G7D	27H	17.38
12	3	700.5	714.5	0.0469	0.0097	ppm	2M73W7D	27H	16.71
12	5	701.5	713.5	0.0575	0.0075	ppm	4M59G7D	27H	17.60
12	5	701.5	713.5	0.0475	0.0098	ppm	4M56W7D	27H	16.77
12	10	704	711	0.0585	0.0061	ppm	9M06G7D	27H	17.67
12	10	704	711	0.0500	0.0076	ppm	9M06W7D	27H	16.99