

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B12_1.4MHz_ERP

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	21.27	-1.18	17.94	<=34.77	Pass		
			2	21.41	-1.18	18.08	<=34.77	Pass		
			5	21.41	-1.18	18.08	<=34.77	Pass		
		3	0	21.29	-1.18	17.96	<=34.77	Pass		
			2	21.36	-1.18	18.03	<=34.77	Pass		
			3	21.31	-1.18	17.98	<=34.77	Pass		
		6	0	20.78	-1.18	17.45	<=34.77	Pass		
		707.5	1	0	21.18	-1.18	17.85	<=34.77	Pass	
				2	21.33	-1.18	18.00	<=34.77	Pass	
	5			21.30	-1.18	17.97	<=34.77	Pass		
	3		0	21.37	-1.18	18.04	<=34.77	Pass		
			2	21.28	-1.18	17.95	<=34.77	Pass		
			3	21.37	-1.18	18.04	<=34.77	Pass		
	6	0	20.86	-1.18	17.53	<=34.77	Pass			
	715.3	1	0	21.21	-1.18	17.88	<=34.77	Pass		
			2	21.32	-1.18	17.99	<=34.77	Pass		
			5	21.28	-1.18	17.95	<=34.77	Pass		
		3	0	21.30	-1.18	17.97	<=34.77	Pass		
			2	21.35	-1.18	18.02	<=34.77	Pass		
			3	21.38	-1.18	18.05	<=34.77	Pass		
		6	0	20.78	-1.18	17.45	<=34.77	Pass		
		16QAM	699.7	1	0	20.26	-1.18	16.93	<=34.77	Pass
					2	20.36	-1.18	17.03	<=34.77	Pass
	5				20.33	-1.18	17.00	<=34.77	Pass	
3	0			20.84	-1.18	17.51	<=34.77	Pass		
	2			20.53	-1.18	17.20	<=34.77	Pass		
	3			20.46	-1.18	17.13	<=34.77	Pass		
6	0			20.14	-1.18	16.81	<=34.77	Pass		
707.5	1			0	20.91	-1.18	17.58	<=34.77	Pass	
				2	20.95	-1.18	17.62	<=34.77	Pass	
			5	21.04	-1.18	17.71	<=34.77	Pass		
	3		0	20.88	-1.18	17.55	<=34.77	Pass		
			2	20.84	-1.18	17.51	<=34.77	Pass		
			3	20.93	-1.18	17.60	<=34.77	Pass		
6	0		19.91	-1.18	16.58	<=34.77	Pass			
715.3	1		0	20.99	-1.18	17.66	<=34.77	Pass		
			2	20.90	-1.18	17.57	<=34.77	Pass		
			5	20.90	-1.18	17.57	<=34.77	Pass		
	3		0	20.65	-1.18	17.32	<=34.77	Pass		
			2	20.64	-1.18	17.31	<=34.77	Pass		
			3	20.54	-1.18	17.21	<=34.77	Pass		
	6		0	19.77	-1.18	16.44	<=34.77	Pass		
	Note1: ERP=Conducted Power+Antenna Gain-2.15									

1.1.2 B12_3MHz_ERP

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	21.39	-1.18	18.06	<=34.77	Pass
			7	21.35	-1.18	18.02	<=34.77	Pass
			14	21.42	-1.18	18.09	<=34.77	Pass
		8	0	20.80	-1.18	17.47	<=34.77	Pass
			4	20.85	-1.18	17.52	<=34.77	Pass
			7	20.82	-1.18	17.49	<=34.77	Pass
		15	0	20.77	-1.18	17.44	<=34.77	Pass
	707.5	1	0	21.29	-1.18	17.96	<=34.77	Pass
			7	21.30	-1.18	17.97	<=34.77	Pass
			14	21.29	-1.18	17.96	<=34.77	Pass
		8	0	20.79	-1.18	17.46	<=34.77	Pass
			4	20.83	-1.18	17.50	<=34.77	Pass
			7	20.77	-1.18	17.44	<=34.77	Pass
		15	0	20.94	-1.18	17.61	<=34.77	Pass
	714.5	1	0	21.32	-1.18	17.99	<=34.77	Pass
			7	21.28	-1.18	17.95	<=34.77	Pass
			14	21.34	-1.18	18.01	<=34.77	Pass
		8	0	20.79	-1.18	17.46	<=34.77	Pass
			4	20.84	-1.18	17.51	<=34.77	Pass
			7	20.81	-1.18	17.48	<=34.77	Pass
		15	0	20.81	-1.18	17.48	<=34.77	Pass
16QAM	700.5	1	0	20.65	-1.18	17.32	<=34.77	Pass
			7	20.52	-1.18	17.19	<=34.77	Pass
			14	20.50	-1.18	17.17	<=34.77	Pass
		8	0	20.35	-1.18	17.02	<=34.77	Pass
			4	20.30	-1.18	16.97	<=34.77	Pass
			7	20.34	-1.18	17.01	<=34.77	Pass
		15	0	20.14	-1.18	16.81	<=34.77	Pass
	707.5	1	0	21.52	-1.18	18.19	<=34.77	Pass
			7	21.60	-1.18	18.27	<=34.77	Pass
			14	21.58	-1.18	18.25	<=34.77	Pass
		8	0	19.88	-1.18	16.55	<=34.77	Pass
			4	19.78	-1.18	16.45	<=34.77	Pass
			7	19.79	-1.18	16.46	<=34.77	Pass
		15	0	19.76	-1.18	16.43	<=34.77	Pass
	714.5	1	0	21.06	-1.18	17.73	<=34.77	Pass
			7	21.06	-1.18	17.73	<=34.77	Pass
			14	20.95	-1.18	17.62	<=34.77	Pass
		8	0	19.97	-1.18	16.64	<=34.77	Pass
			4	19.93	-1.18	16.60	<=34.77	Pass
			7	19.90	-1.18	16.57	<=34.77	Pass
		15	0	19.82	-1.18	16.49	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.3 B12_5MHz_ERP

Band: 12 / Bandwidth: 5MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	21.39	-1.18	18.06	<=34.77	Pass
			13	21.22	-1.18	17.89	<=34.77	Pass
			24	21.27	-1.18	17.94	<=34.77	Pass
		12	0	20.79	-1.18	17.46	<=34.77	Pass
			6	20.81	-1.18	17.48	<=34.77	Pass
			13	20.75	-1.18	17.42	<=34.77	Pass

16QAM	707.5	25	0	20.80	-1.18	17.47	<=34.77	Pass
		1	0	21.24	-1.18	17.91	<=34.77	Pass
			13	21.30	-1.18	17.97	<=34.77	Pass
			24	21.20	-1.18	17.87	<=34.77	Pass
		12	0	20.78	-1.18	17.45	<=34.77	Pass
			6	20.88	-1.18	17.55	<=34.77	Pass
			13	20.87	-1.18	17.54	<=34.77	Pass
		25	0	20.92	-1.18	17.59	<=34.77	Pass
	713.5	1	0	21.25	-1.18	17.92	<=34.77	Pass
			13	21.31	-1.18	17.98	<=34.77	Pass
			24	21.30	-1.18	17.97	<=34.77	Pass
		12	0	20.72	-1.18	17.39	<=34.77	Pass
			6	20.91	-1.18	17.58	<=34.77	Pass
			13	20.79	-1.18	17.46	<=34.77	Pass
		25	0	20.80	-1.18	17.47	<=34.77	Pass
	701.5	1	0	20.85	-1.18	17.52	<=34.77	Pass
			13	20.73	-1.18	17.40	<=34.77	Pass
			24	20.88	-1.18	17.55	<=34.77	Pass
		12	0	20.18	-1.18	16.85	<=34.77	Pass
			6	20.23	-1.18	16.90	<=34.77	Pass
			13	20.21	-1.18	16.88	<=34.77	Pass
		25	0	20.26	-1.18	16.93	<=34.77	Pass
	707.5	1	0	20.53	-1.18	17.20	<=34.77	Pass
			13	20.60	-1.18	17.27	<=34.77	Pass
			24	20.84	-1.18	17.51	<=34.77	Pass
		12	0	19.61	-1.18	16.28	<=34.77	Pass
			6	19.71	-1.18	16.38	<=34.77	Pass
			13	19.68	-1.18	16.35	<=34.77	Pass
		25	0	19.68	-1.18	16.35	<=34.77	Pass
	713.5	1	0	19.92	-1.18	16.59	<=34.77	Pass
			13	19.92	-1.18	16.59	<=34.77	Pass
			24	19.85	-1.18	16.52	<=34.77	Pass
		12	0	20.18	-1.18	16.85	<=34.77	Pass
			6	19.72	-1.18	16.39	<=34.77	Pass
			13	19.74	-1.18	16.41	<=34.77	Pass
		25	0	19.87	-1.18	16.54	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.4 B12_10MHz_ERP

Band: 12 / Bandwidth: 10MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	704	1	0	21.39	-1.18	18.06	<=34.77	Pass
			25	21.38	-1.18	18.05	<=34.77	Pass
			49	21.41	-1.18	18.08	<=34.77	Pass
		25	0	20.85	-1.18	17.52	<=34.77	Pass
			13	20.86	-1.18	17.53	<=34.77	Pass
			25	20.84	-1.18	17.51	<=34.77	Pass
		50	0	20.86	-1.18	17.53	<=34.77	Pass
	707.5	1	0	21.36	-1.18	18.03	<=34.77	Pass
			25	21.45	-1.18	18.12	<=34.77	Pass
			49	21.41	-1.18	18.08	<=34.77	Pass
		25	0	20.80	-1.18	17.47	<=34.77	Pass
			13	20.87	-1.18	17.54	<=34.77	Pass
			25	21.07	-1.18	17.74	<=34.77	Pass
		50	0	20.87	-1.18	17.54	<=34.77	Pass

16QAM	711	1	0	21.27	-1.18	17.94	<=34.77	Pass
			25	21.14	-1.18	17.81	<=34.77	Pass
			49	21.25	-1.18	17.92	<=34.77	Pass
		25	0	20.85	-1.18	17.52	<=34.77	Pass
			13	21.09	-1.18	17.76	<=34.77	Pass
			25	20.87	-1.18	17.54	<=34.77	Pass
		50	0	21.06	-1.18	17.73	<=34.77	Pass
			0	20.32	-1.18	16.99	<=34.77	Pass
			25	20.40	-1.18	17.07	<=34.77	Pass
16QAM	704	1	49	20.39	-1.18	17.06	<=34.77	Pass
			0	20.31	-1.18	16.98	<=34.77	Pass
			13	20.01	-1.18	16.68	<=34.77	Pass
		25	25	20.01	-1.18	16.68	<=34.77	Pass
			0	19.78	-1.18	16.45	<=34.77	Pass
			0	20.93	-1.18	17.60	<=34.77	Pass
		25	25	21.03	-1.18	17.70	<=34.77	Pass
			49	21.02	-1.18	17.69	<=34.77	Pass
			0	19.93	-1.18	16.60	<=34.77	Pass
16QAM	707.5	25	13	19.88	-1.18	16.55	<=34.77	Pass
			25	20.34	-1.18	17.01	<=34.77	Pass
			0	19.86	-1.18	16.53	<=34.77	Pass
		50	0	20.86	-1.18	17.53	<=34.77	Pass
			25	21.18	-1.18	17.85	<=34.77	Pass
			49	20.82	-1.18	17.49	<=34.77	Pass
		711	0	19.78	-1.18	16.45	<=34.77	Pass
			13	20.17	-1.18	16.84	<=34.77	Pass
			25	19.88	-1.18	16.55	<=34.77	Pass
16QAM	711	50	0	20.17	-1.18	16.84	<=34.77	Pass
			0	20.86	-1.18	17.53	<=34.77	Pass
			25	21.18	-1.18	17.85	<=34.77	Pass
		711	49	20.82	-1.18	17.49	<=34.77	Pass
			0	19.78	-1.18	16.45	<=34.77	Pass
			13	20.17	-1.18	16.84	<=34.77	Pass
		711	25	19.88	-1.18	16.55	<=34.77	Pass
			0	20.17	-1.18	16.84	<=34.77	Pass
			25	19.88	-1.18	16.55	<=34.77	Pass
		711	0	20.17	-1.18	16.84	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 B12_1.4MHz

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	-18.282	-0.0261	-2.5 to 2.5	Pass
					3.85	-28.753	-0.0411	-2.5 to 2.5	Pass
					4.43	-25.420	-0.0363	-2.5 to 2.5	Pass
				-30	3.85	-23.561	-0.0337	-2.5 to 2.5	Pass
				-20	3.85	-23.174	-0.0331	-2.5 to 2.5	Pass
				-10	3.85	-23.060	-0.0330	-2.5 to 2.5	Pass
				0	3.85	-24.505	-0.0350	-2.5 to 2.5	Pass
				10	3.85	-26.565	-0.0380	-2.5 to 2.5	Pass
				30	3.85	-28.567	-0.0408	-2.5 to 2.5	Pass
				40	3.85	-27.795	-0.0397	-2.5 to 2.5	Pass
				50	3.85	-28.381	-0.0406	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	6.380	0.0090	-2.5 to 2.5	Pass
					3.85	3.161	0.0045	-2.5 to 2.5	Pass
					4.43	2.875	0.0041	-2.5 to 2.5	Pass
				-30	3.85	4.206	0.0059	-2.5 to 2.5	Pass
				-20	3.85	4.835	0.0068	-2.5 to 2.5	Pass
				-10	3.85	4.034	0.0057	-2.5 to 2.5	Pass

				0	3.85	4.592	0.0065	-2.5 to 2.5	Pass
				10	3.85	5.507	0.0078	-2.5 to 2.5	Pass
				30	3.85	7.911	0.0112	-2.5 to 2.5	Pass
				40	3.85	5.651	0.0080	-2.5 to 2.5	Pass
				50	3.85	6.638	0.0094	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	4.034	0.0056	-2.5 to 2.5	Pass
					3.85	-0.329	-0.0005	-2.5 to 2.5	Pass
					4.43	-1.302	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-3.262	-0.0046	-2.5 to 2.5	Pass
				-20	3.85	-4.263	-0.0060	-2.5 to 2.5	Pass
				-10	3.85	-4.349	-0.0061	-2.5 to 2.5	Pass
				0	3.85	-2.975	-0.0042	-2.5 to 2.5	Pass
				10	3.85	-4.091	-0.0057	-2.5 to 2.5	Pass
				30	3.85	-3.462	-0.0048	-2.5 to 2.5	Pass
				40	3.85	-3.762	-0.0053	-2.5 to 2.5	Pass
				50	3.85	-2.217	-0.0031	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	-29.325	-0.0419	-2.5 to 2.5	Pass
					3.85	-30.856	-0.0441	-2.5 to 2.5	Pass
					4.43	-32.358	-0.0462	-2.5 to 2.5	Pass
				-30	3.85	-30.870	-0.0441	-2.5 to 2.5	Pass
				-20	3.85	-33.431	-0.0478	-2.5 to 2.5	Pass
				-10	3.85	-33.545	-0.0479	-2.5 to 2.5	Pass
				0	3.85	-33.646	-0.0481	-2.5 to 2.5	Pass
				10	3.85	-32.029	-0.0458	-2.5 to 2.5	Pass
				30	3.85	-32.630	-0.0466	-2.5 to 2.5	Pass
				40	3.85	-32.229	-0.0461	-2.5 to 2.5	Pass
				50	3.85	-31.943	-0.0457	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	7.153	0.0101	-2.5 to 2.5	Pass
					3.85	9.441	0.0133	-2.5 to 2.5	Pass
					4.43	10.314	0.0146	-2.5 to 2.5	Pass
				-30	3.85	12.460	0.0176	-2.5 to 2.5	Pass
				-20	3.85	13.132	0.0186	-2.5 to 2.5	Pass
				-10	3.85	15.550	0.0220	-2.5 to 2.5	Pass
				0	3.85	17.667	0.0250	-2.5 to 2.5	Pass
				10	3.85	18.783	0.0265	-2.5 to 2.5	Pass
				30	3.85	18.897	0.0267	-2.5 to 2.5	Pass
				40	3.85	21.758	0.0308	-2.5 to 2.5	Pass
				50	3.85	23.861	0.0337	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-1.130	-0.0016	-2.5 to 2.5	Pass
					3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
					4.43	0.644	0.0009	-2.5 to 2.5	Pass
				-30	3.85	4.263	0.0060	-2.5 to 2.5	Pass
				-20	3.85	6.623	0.0093	-2.5 to 2.5	Pass
				-10	3.85	6.638	0.0093	-2.5 to 2.5	Pass
				0	3.85	7.353	0.0103	-2.5 to 2.5	Pass
				10	3.85	9.155	0.0128	-2.5 to 2.5	Pass
				30	3.85	11.058	0.0155	-2.5 to 2.5	Pass
				40	3.85	11.730	0.0164	-2.5 to 2.5	Pass
				50	3.85	13.189	0.0184	-2.5 to 2.5	Pass

2.1.2 B12_3MHz

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	-10.157	-0.0145	-2.5 to 2.5	Pass
					3.85	-11.530	-0.0165	-2.5 to 2.5	Pass

					4.43	-9.742	-0.0139	-2.5 to 2.5	Pass
				-30	3.85	-9.212	-0.0132	-2.5 to 2.5	Pass
				-20	3.85	-42.014	-0.0600	-2.5 to 2.5	Pass
				-10	3.85	-22.488	-0.0321	-2.5 to 2.5	Pass
				0	3.85	-42.529	-0.0607	-2.5 to 2.5	Pass
				10	3.85	-0.129	-0.0002	-2.5 to 2.5	Pass
				30	3.85	-10.757	-0.0154	-2.5 to 2.5	Pass
				40	3.85	-16.623	-0.0237	-2.5 to 2.5	Pass
				50	3.85	-25.034	-0.0357	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	12.574	0.0178	-2.5 to 2.5	Pass
					3.85	10.915	0.0154	-2.5 to 2.5	Pass
					4.43	6.366	0.0090	-2.5 to 2.5	Pass
				-30	3.85	2.933	0.0041	-2.5 to 2.5	Pass
				-20	3.85	1.531	0.0022	-2.5 to 2.5	Pass
				-10	3.85	-0.286	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-3.176	-0.0045	-2.5 to 2.5	Pass
				10	3.85	-4.649	-0.0066	-2.5 to 2.5	Pass
				30	3.85	-4.764	-0.0067	-2.5 to 2.5	Pass
	40	3.85	-6.638	-0.0094	-2.5 to 2.5	Pass			
	50	3.85	-7.710	-0.0109	-2.5 to 2.5	Pass			
	714.5	15	0	20	3.27	9.112	0.0128	-2.5 to 2.5	Pass
					3.85	2.990	0.0042	-2.5 to 2.5	Pass
					4.43	-3.033	-0.0042	-2.5 to 2.5	Pass
				-30	3.85	-8.025	-0.0112	-2.5 to 2.5	Pass
				-20	3.85	-13.361	-0.0187	-2.5 to 2.5	Pass
				-10	3.85	-15.306	-0.0214	-2.5 to 2.5	Pass
				0	3.85	-16.880	-0.0236	-2.5 to 2.5	Pass
				10	3.85	-19.541	-0.0273	-2.5 to 2.5	Pass
				30	3.85	-18.697	-0.0262	-2.5 to 2.5	Pass
	40	3.85	-19.355	-0.0271	-2.5 to 2.5	Pass			
50	3.85	-20.871	-0.0292	-2.5 to 2.5	Pass				
16QAM	700.5	15	0	20	3.27	-31.214	-0.0446	-2.5 to 2.5	Pass
					3.85	-30.870	-0.0441	-2.5 to 2.5	Pass
					4.43	-31.114	-0.0444	-2.5 to 2.5	Pass
				-30	3.85	-30.169	-0.0431	-2.5 to 2.5	Pass
				-20	3.85	-30.599	-0.0437	-2.5 to 2.5	Pass
				-10	3.85	-28.396	-0.0405	-2.5 to 2.5	Pass
				0	3.85	-31.400	-0.0448	-2.5 to 2.5	Pass
				10	3.85	-30.885	-0.0441	-2.5 to 2.5	Pass
				30	3.85	-30.713	-0.0438	-2.5 to 2.5	Pass
	40	3.85	-30.627	-0.0437	-2.5 to 2.5	Pass			
	50	3.85	-30.985	-0.0442	-2.5 to 2.5	Pass			
	707.5	15	0	20	3.27	-6.938	-0.0098	-2.5 to 2.5	Pass
					3.85	-4.478	-0.0063	-2.5 to 2.5	Pass
					4.43	0.501	0.0007	-2.5 to 2.5	Pass
				-30	3.85	2.346	0.0033	-2.5 to 2.5	Pass
				-20	3.85	6.952	0.0098	-2.5 to 2.5	Pass
				-10	3.85	6.452	0.0091	-2.5 to 2.5	Pass
				0	3.85	6.409	0.0091	-2.5 to 2.5	Pass
				10	3.85	6.766	0.0096	-2.5 to 2.5	Pass
				30	3.85	8.655	0.0122	-2.5 to 2.5	Pass
	40	3.85	9.613	0.0136	-2.5 to 2.5	Pass			
	50	3.85	10.071	0.0142	-2.5 to 2.5	Pass			
	714.5	15	0	20	3.27	-20.056	-0.0281	-2.5 to 2.5	Pass
					3.85	-14.963	-0.0209	-2.5 to 2.5	Pass
					4.43	-12.016	-0.0168	-2.5 to 2.5	Pass
				-30	3.85	-10.614	-0.0149	-2.5 to 2.5	Pass
				-20	3.85	-9.742	-0.0136	-2.5 to 2.5	Pass
				-10	3.85	-7.854	-0.0110	-2.5 to 2.5	Pass

				0	3.85	-8.798	-0.0123	-2.5 to 2.5	Pass
				10	3.85	-6.638	-0.0093	-2.5 to 2.5	Pass
				30	3.85	-6.394	-0.0089	-2.5 to 2.5	Pass
				40	3.85	-6.409	-0.0090	-2.5 to 2.5	Pass
				50	3.85	-6.480	-0.0091	-2.5 to 2.5	Pass

2.1.3 B12_5MHz

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	1.717	0.0024	-2.5 to 2.5	Pass
					3.85	-27.237	-0.0388	-2.5 to 2.5	Pass
					4.43	-21.172	-0.0302	-2.5 to 2.5	Pass
				-30	3.85	-45.719	-0.0652	-2.5 to 2.5	Pass
				-20	3.85	-17.295	-0.0247	-2.5 to 2.5	Pass
				-10	3.85	-35.706	-0.0509	-2.5 to 2.5	Pass
				0	3.85	-6.452	-0.0092	-2.5 to 2.5	Pass
				10	3.85	-17.395	-0.0248	-2.5 to 2.5	Pass
				30	3.85	-24.533	-0.0350	-2.5 to 2.5	Pass
				40	3.85	-34.218	-0.0488	-2.5 to 2.5	Pass
				50	3.85	-40.398	-0.0576	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	9.699	0.0137	-2.5 to 2.5	Pass
					3.85	5.693	0.0080	-2.5 to 2.5	Pass
					4.43	-0.658	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	-5.579	-0.0079	-2.5 to 2.5	Pass
				-20	3.85	-7.839	-0.0111	-2.5 to 2.5	Pass
				-10	3.85	-12.517	-0.0177	-2.5 to 2.5	Pass
				0	3.85	-11.845	-0.0167	-2.5 to 2.5	Pass
				10	3.85	-11.373	-0.0161	-2.5 to 2.5	Pass
				30	3.85	-13.404	-0.0189	-2.5 to 2.5	Pass
				40	3.85	-13.819	-0.0195	-2.5 to 2.5	Pass
				50	3.85	-14.219	-0.0201	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	13.790	0.0193	-2.5 to 2.5	Pass
					3.85	6.652	0.0093	-2.5 to 2.5	Pass
					4.43	-3.190	-0.0045	-2.5 to 2.5	Pass
				-30	3.85	-6.881	-0.0096	-2.5 to 2.5	Pass
				-20	3.85	-13.103	-0.0184	-2.5 to 2.5	Pass
				-10	3.85	-15.535	-0.0218	-2.5 to 2.5	Pass
				0	3.85	-20.342	-0.0285	-2.5 to 2.5	Pass
				10	3.85	-22.030	-0.0309	-2.5 to 2.5	Pass
				30	3.85	-23.918	-0.0335	-2.5 to 2.5	Pass
				40	3.85	-26.536	-0.0372	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-48.022	-0.0685	-2.5 to 2.5	Pass
					3.85	-46.964	-0.0669	-2.5 to 2.5	Pass
					4.43	-45.991	-0.0656	-2.5 to 2.5	Pass
				-30	3.85	-46.535	-0.0663	-2.5 to 2.5	Pass
				-20	3.85	-44.332	-0.0632	-2.5 to 2.5	Pass
				-10	3.85	-44.861	-0.0640	-2.5 to 2.5	Pass
				0	3.85	-42.715	-0.0609	-2.5 to 2.5	Pass
				10	3.85	-46.291	-0.0660	-2.5 to 2.5	Pass
				30	3.85	-46.306	-0.0660	-2.5 to 2.5	Pass
				40	3.85	-47.736	-0.0680	-2.5 to 2.5	Pass
				50	3.85	-46.663	-0.0665	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-12.388	-0.0175	-2.5 to 2.5	Pass
					3.85	-6.752	-0.0095	-2.5 to 2.5	Pass

					4.43	-3.848	-0.0054	-2.5 to 2.5	Pass
				-30	3.85	-0.672	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	3.734	0.0053	-2.5 to 2.5	Pass
				-10	3.85	3.619	0.0051	-2.5 to 2.5	Pass
				0	3.85	4.320	0.0061	-2.5 to 2.5	Pass
				10	3.85	6.566	0.0093	-2.5 to 2.5	Pass
				30	3.85	6.623	0.0094	-2.5 to 2.5	Pass
				40	3.85	5.908	0.0084	-2.5 to 2.5	Pass
				50	3.85	6.723	0.0095	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-25.005	-0.0350	-2.5 to 2.5	Pass
					3.85	-20.885	-0.0293	-2.5 to 2.5	Pass
					4.43	-14.791	-0.0207	-2.5 to 2.5	Pass
				-30	3.85	-11.988	-0.0168	-2.5 to 2.5	Pass
				-20	3.85	-7.539	-0.0106	-2.5 to 2.5	Pass
				-10	3.85	-8.469	-0.0119	-2.5 to 2.5	Pass
				0	3.85	-4.506	-0.0063	-2.5 to 2.5	Pass
				10	3.85	-4.807	-0.0067	-2.5 to 2.5	Pass
				30	3.85	-2.117	-0.0030	-2.5 to 2.5	Pass
				40	3.85	-1.001	-0.0014	-2.5 to 2.5	Pass
				50	3.85	0.000	0.0000	-2.5 to 2.5	Pass

2.1.4 B12_10MHz

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	-3.390	-0.0048	-2.5 to 2.5	Pass
					3.85	-25.005	-0.0355	-2.5 to 2.5	Pass
					4.43	-13.304	-0.0189	-2.5 to 2.5	Pass
				-30	3.85	-20.585	-0.0292	-2.5 to 2.5	Pass
				-20	3.85	-27.580	-0.0392	-2.5 to 2.5	Pass
				-10	3.85	-14.777	-0.0210	-2.5 to 2.5	Pass
				0	3.85	-29.140	-0.0414	-2.5 to 2.5	Pass
				10	3.85	-38.996	-0.0554	-2.5 to 2.5	Pass
				30	3.85	1.674	0.0024	-2.5 to 2.5	Pass
				40	3.85	-7.768	-0.0110	-2.5 to 2.5	Pass
				50	3.85	-12.016	-0.0171	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	6.609	0.0093	-2.5 to 2.5	Pass
					3.85	-1.359	-0.0019	-2.5 to 2.5	Pass
					4.43	-11.702	-0.0165	-2.5 to 2.5	Pass
				-30	3.85	-20.456	-0.0289	-2.5 to 2.5	Pass
				-20	3.85	-23.589	-0.0333	-2.5 to 2.5	Pass
				-10	3.85	-28.782	-0.0407	-2.5 to 2.5	Pass
				0	3.85	-33.488	-0.0473	-2.5 to 2.5	Pass
				10	3.85	-37.565	-0.0531	-2.5 to 2.5	Pass
				30	3.85	-39.983	-0.0565	-2.5 to 2.5	Pass
				40	3.85	-38.896	-0.0550	-2.5 to 2.5	Pass
				50	3.85	-44.460	-0.0628	-2.5 to 2.5	Pass
	711	50	0	20	3.27	8.984	0.0126	-2.5 to 2.5	Pass
					3.85	-2.918	-0.0041	-2.5 to 2.5	Pass
					4.43	-15.020	-0.0211	-2.5 to 2.5	Pass
				-30	3.85	-21.214	-0.0298	-2.5 to 2.5	Pass
				-20	3.85	-28.453	-0.0400	-2.5 to 2.5	Pass
				-10	3.85	-32.587	-0.0458	-2.5 to 2.5	Pass
				0	3.85	-35.763	-0.0503	-2.5 to 2.5	Pass
				10	3.85	-36.521	-0.0514	-2.5 to 2.5	Pass
				30	3.85	-39.582	-0.0557	-2.5 to 2.5	Pass

16QAM	704	50	0	40	3.85	-43.130	-0.0607	-2.5 to 2.5	Pass
				50	3.85	-44.804	-0.0630	-2.5 to 2.5	Pass
				20	3.27	-16.150	-0.0229	-2.5 to 2.5	Pass
					3.85	-12.503	-0.0178	-2.5 to 2.5	Pass
					4.43	-8.512	-0.0121	-2.5 to 2.5	Pass
				-30	3.85	-7.396	-0.0105	-2.5 to 2.5	Pass
				-20	3.85	-3.819	-0.0054	-2.5 to 2.5	Pass
				-10	3.85	-3.376	-0.0048	-2.5 to 2.5	Pass
				0	3.85	-1.173	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-1.945	-0.0028	-2.5 to 2.5	Pass
	707.5	50	0	30	3.85	-1.588	-0.0023	-2.5 to 2.5	Pass
				40	3.85	2.217	0.0031	-2.5 to 2.5	Pass
				50	3.85	2.832	0.0040	-2.5 to 2.5	Pass
				20	3.27	-45.619	-0.0645	-2.5 to 2.5	Pass
					3.85	-36.621	-0.0518	-2.5 to 2.5	Pass
					4.43	-33.832	-0.0478	-2.5 to 2.5	Pass
				-30	3.85	-26.679	-0.0377	-2.5 to 2.5	Pass
				-20	3.85	-24.161	-0.0341	-2.5 to 2.5	Pass
				-10	3.85	-24.104	-0.0341	-2.5 to 2.5	Pass
				0	3.85	-20.428	-0.0289	-2.5 to 2.5	Pass
	711	50	0	10	3.85	-17.366	-0.0245	-2.5 to 2.5	Pass
				30	3.85	-16.422	-0.0232	-2.5 to 2.5	Pass
				40	3.85	-17.037	-0.0241	-2.5 to 2.5	Pass
				50	3.85	-13.719	-0.0194	-2.5 to 2.5	Pass
				20	3.27	-42.715	-0.0601	-2.5 to 2.5	Pass
					3.85	-38.309	-0.0539	-2.5 to 2.5	Pass
					4.43	-29.941	-0.0421	-2.5 to 2.5	Pass
				-30	3.85	-27.308	-0.0384	-2.5 to 2.5	Pass
				-20	3.85	-22.230	-0.0313	-2.5 to 2.5	Pass
				-10	3.85	-20.099	-0.0283	-2.5 to 2.5	Pass
				0	3.85	-18.697	-0.0263	-2.5 to 2.5	Pass
				10	3.85	-16.680	-0.0235	-2.5 to 2.5	Pass
				30	3.85	-17.266	-0.0243	-2.5 to 2.5	Pass
				40	3.85	-16.851	-0.0237	-2.5 to 2.5	Pass
				50	3.85	-16.923	-0.0238	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
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 B12_3MHz

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

3.1.3 B12_5MHz

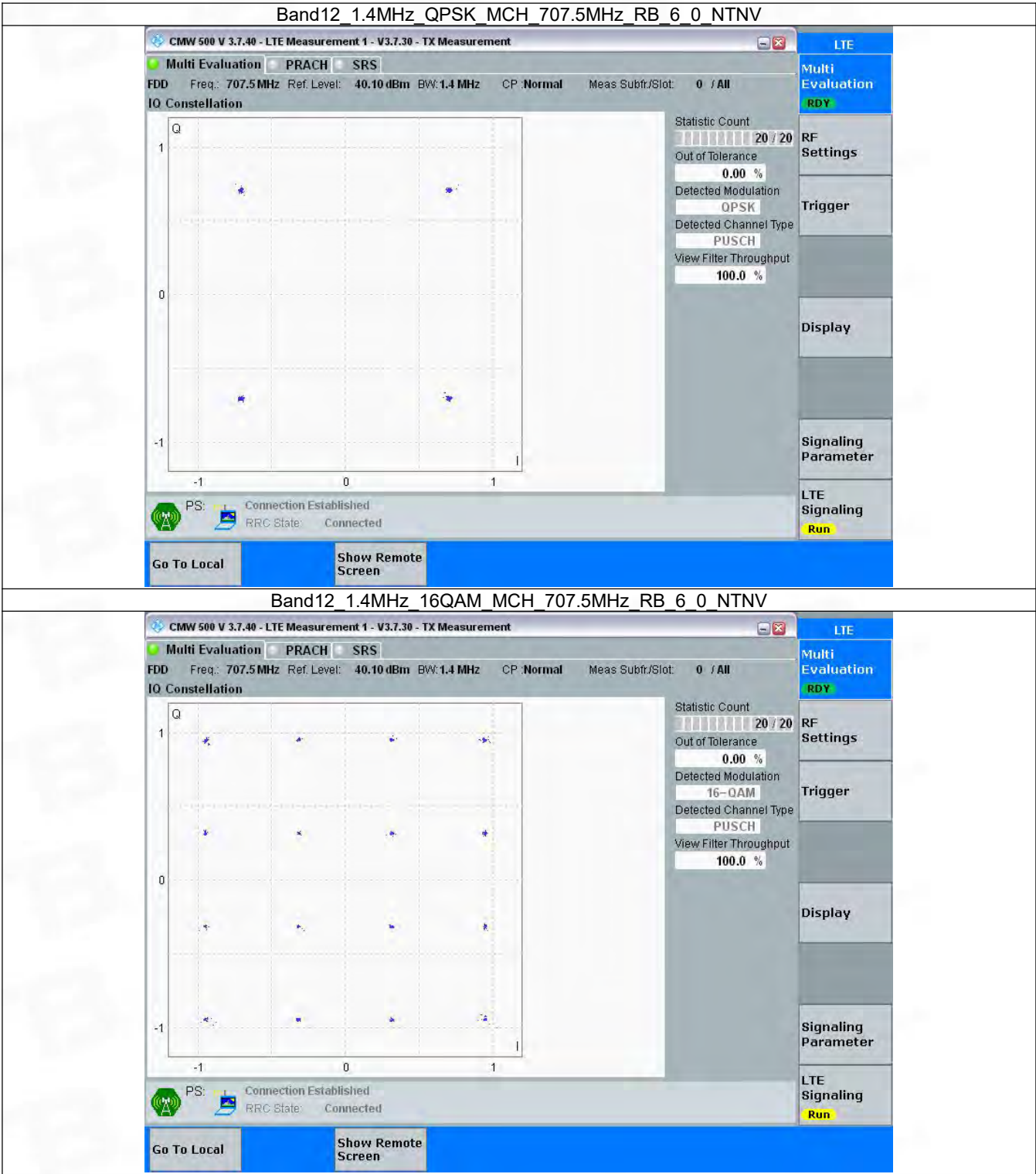
Band: 12 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

3.1.4 B12_10MHz

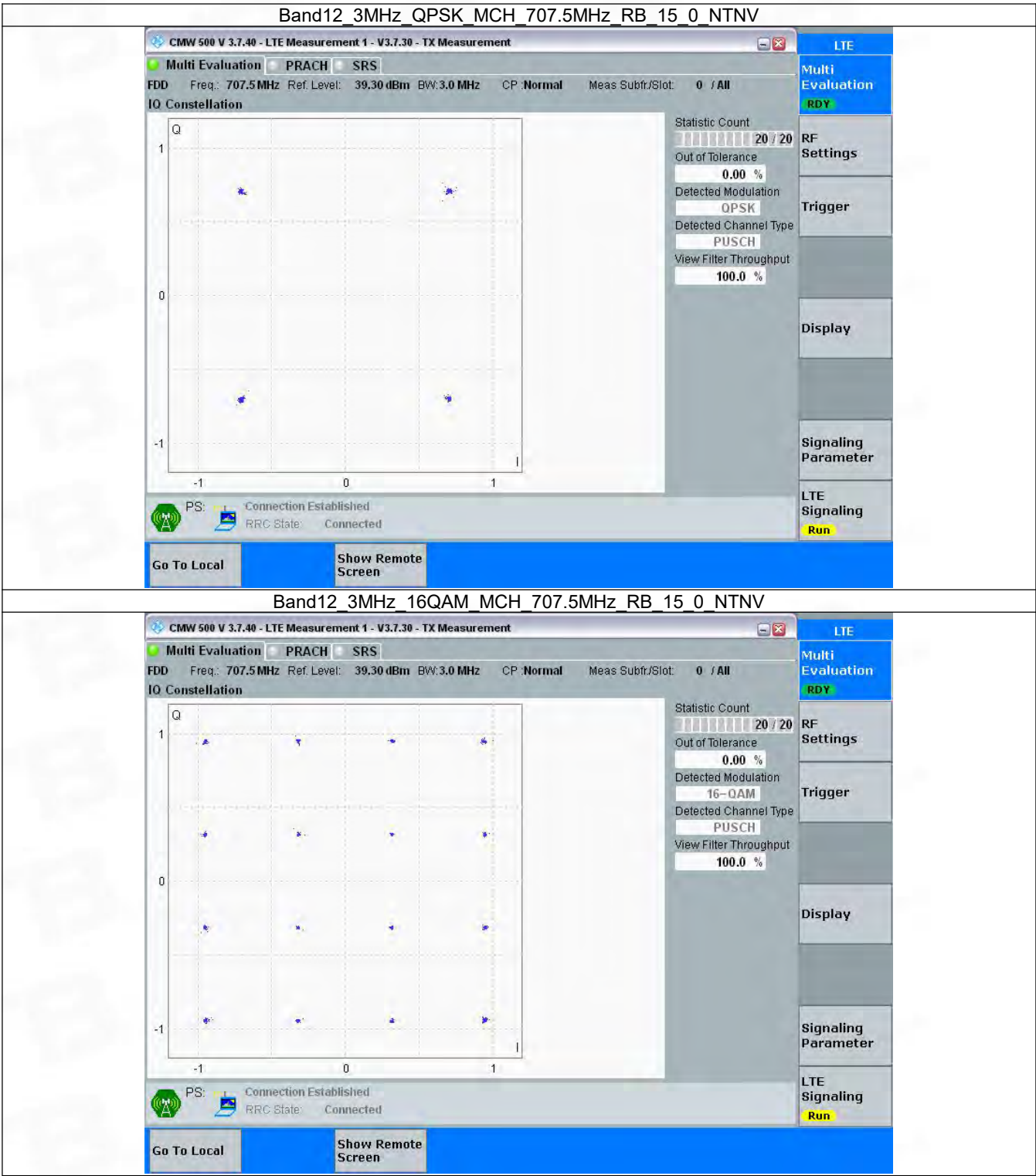
Band: 12 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

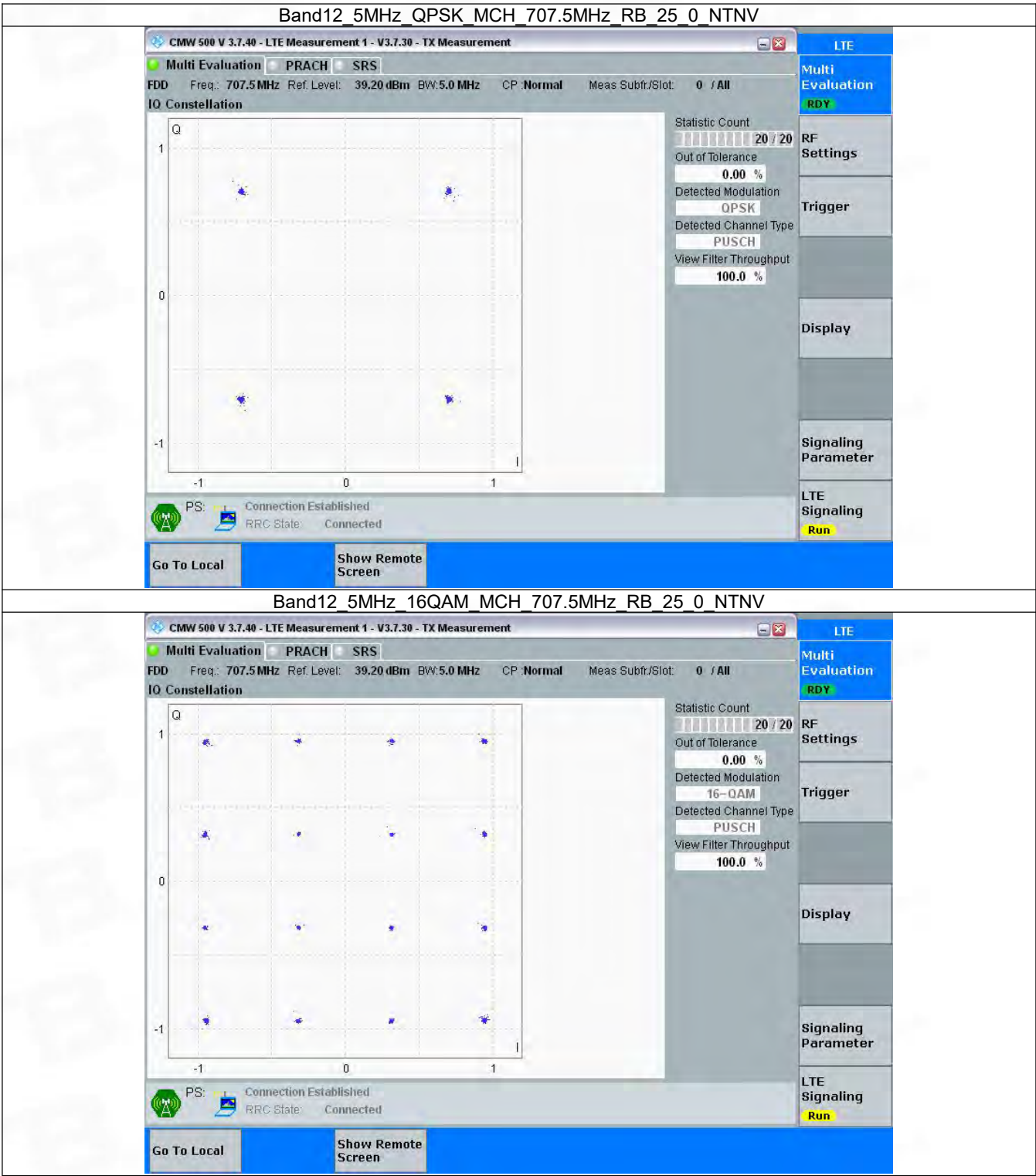
3.2.1 B12_1.4MHz



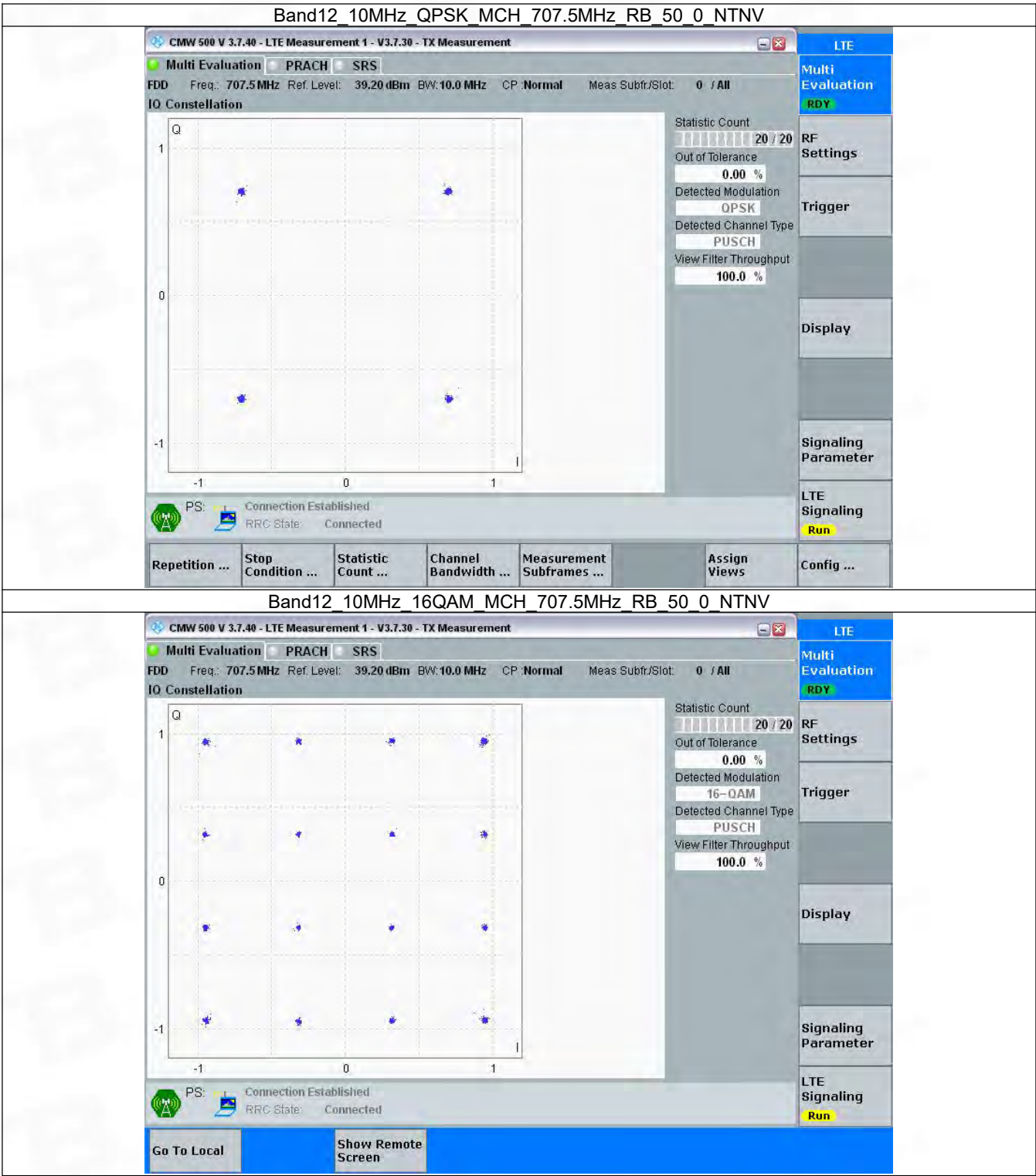
3.2.2 B12_3MHz



3.2.3 B12_5MHz



3.2.4 B12_10MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band12_OBW

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	1.117	/	Pass
		707.5	6	0	1.112	/	Pass
		715.3	6	0	1.115	/	Pass
	16QAM	699.7	6	0	1.112	/	Pass
		707.5	6	0	1.105	/	Pass
		715.3	6	0	1.117	/	Pass
3	QPSK	700.5	15	0	2.761	/	Pass
		707.5	15	0	2.750	/	Pass
		714.5	15	0	2.758	/	Pass
	16QAM	700.5	15	0	2.757	/	Pass
		707.5	15	0	2.743	/	Pass
		714.5	15	0	2.773	/	Pass
5	QPSK	701.5	25	0	4.542	/	Pass
		707.5	25	0	4.557	/	Pass
		713.5	25	0	4.575	/	Pass
	16QAM	701.5	25	0	4.568	/	Pass
		707.5	25	0	4.569	/	Pass
		713.5	25	0	4.550	/	Pass
10	QPSK	704	50	0	9.072	/	Pass
		707.5	50	0	9.051	/	Pass
		711	50	0	9.047	/	Pass
	16QAM	704	50	0	9.055	/	Pass
		707.5	50	0	9.056	/	Pass
		711	50	0	9.067	/	Pass

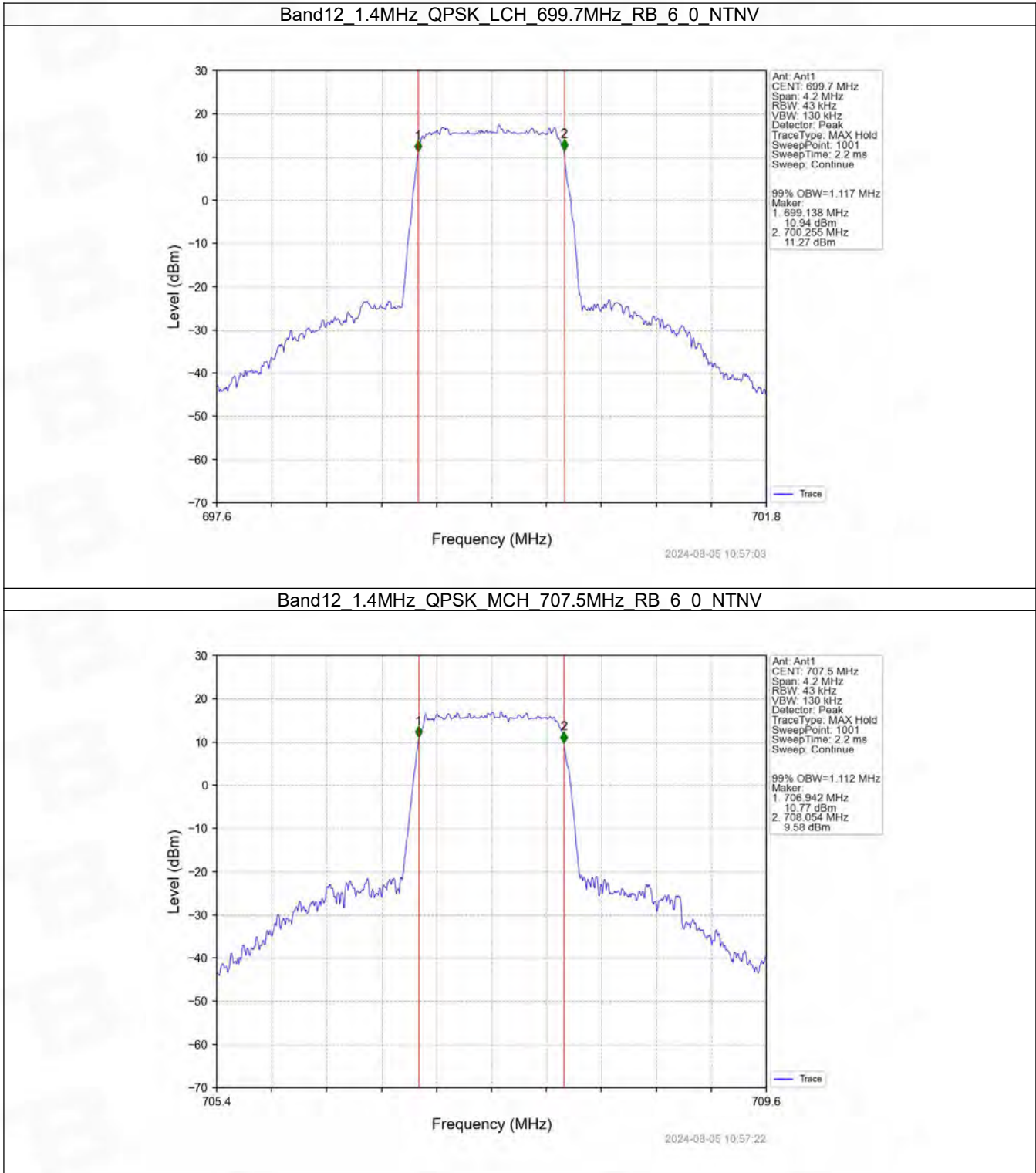
4.1.2 Band12_XDB

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	1.273	/	Pass
		707.5	6	0	1.269	/	Pass
		715.3	6	0	1.275	/	Pass
	16QAM	699.7	6	0	1.282	/	Pass
		707.5	6	0	1.264	/	Pass
		715.3	6	0	1.279	/	Pass
3	QPSK	700.5	15	0	3.096	/	Pass
		707.5	15	0	3.087	/	Pass
		714.5	15	0	3.109	/	Pass
	16QAM	700.5	15	0	3.097	/	Pass
		707.5	15	0	3.100	/	Pass
		714.5	15	0	3.086	/	Pass
5	QPSK	701.5	25	0	5.027	/	Pass
		707.5	25	0	5.072	/	Pass
		713.5	25	0	5.025	/	Pass

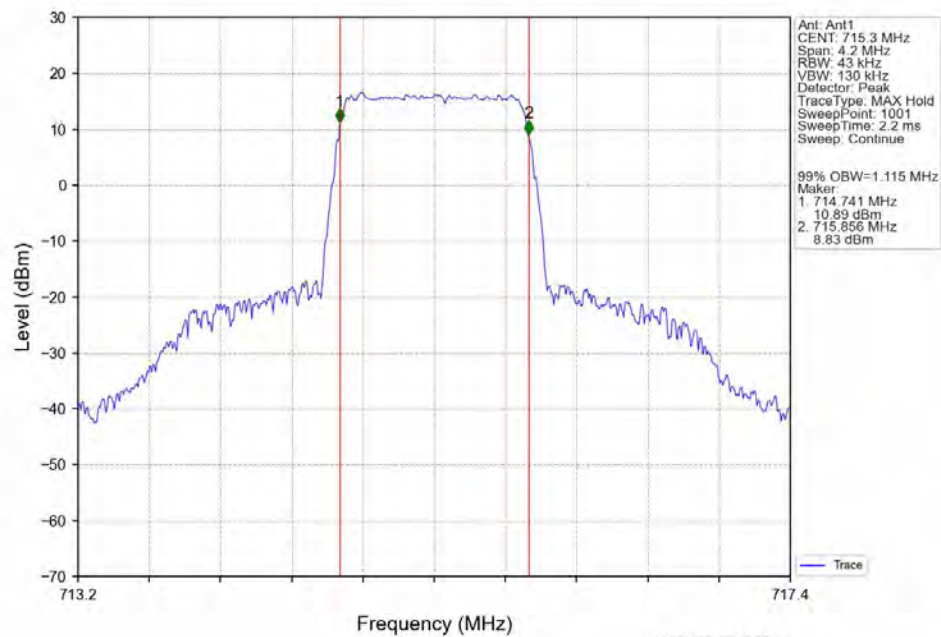
	16QAM	701.5	25	0	5.081	/	Pass
		707.5	25	0	5.082	/	Pass
		713.5	25	0	5.079	/	Pass
10	QPSK	704	50	0	10.050	/	Pass
		707.5	50	0	10.044	/	Pass
		711	50	0	10.079	/	Pass
	16QAM	704	50	0	10.062	/	Pass
		707.5	50	0	10.020	/	Pass
		711	50	0	10.042	/	Pass

4.2 Test Graph

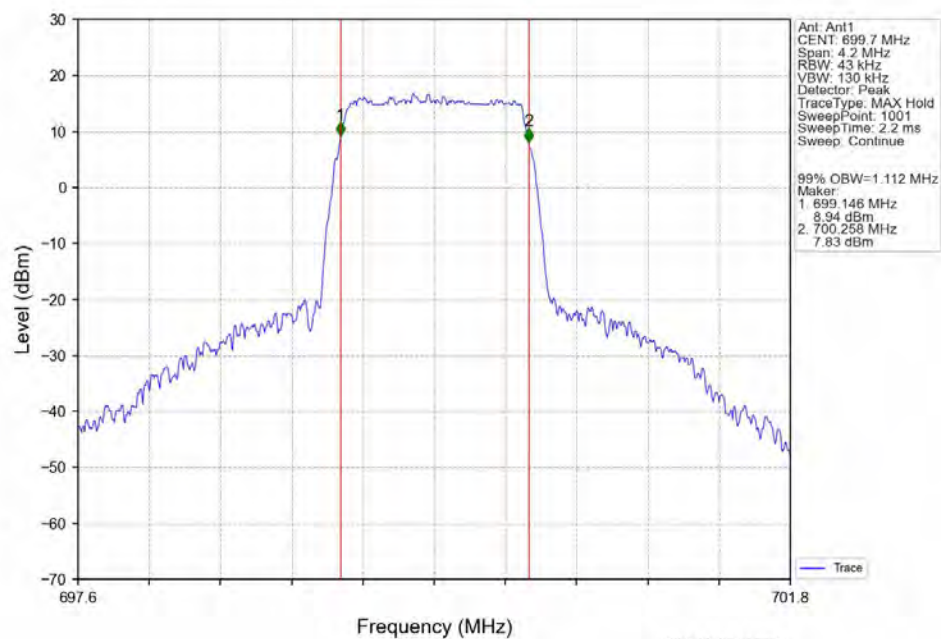
4.2.1 Band12_OBW

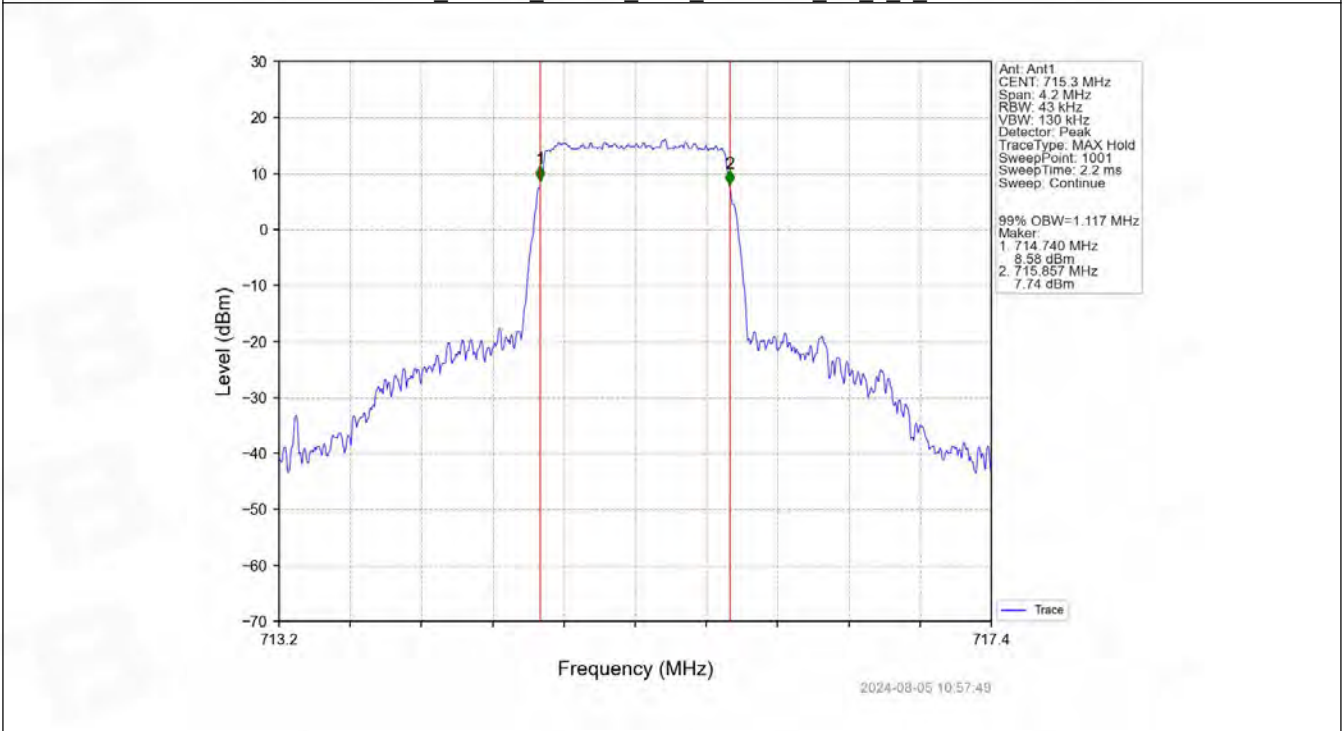
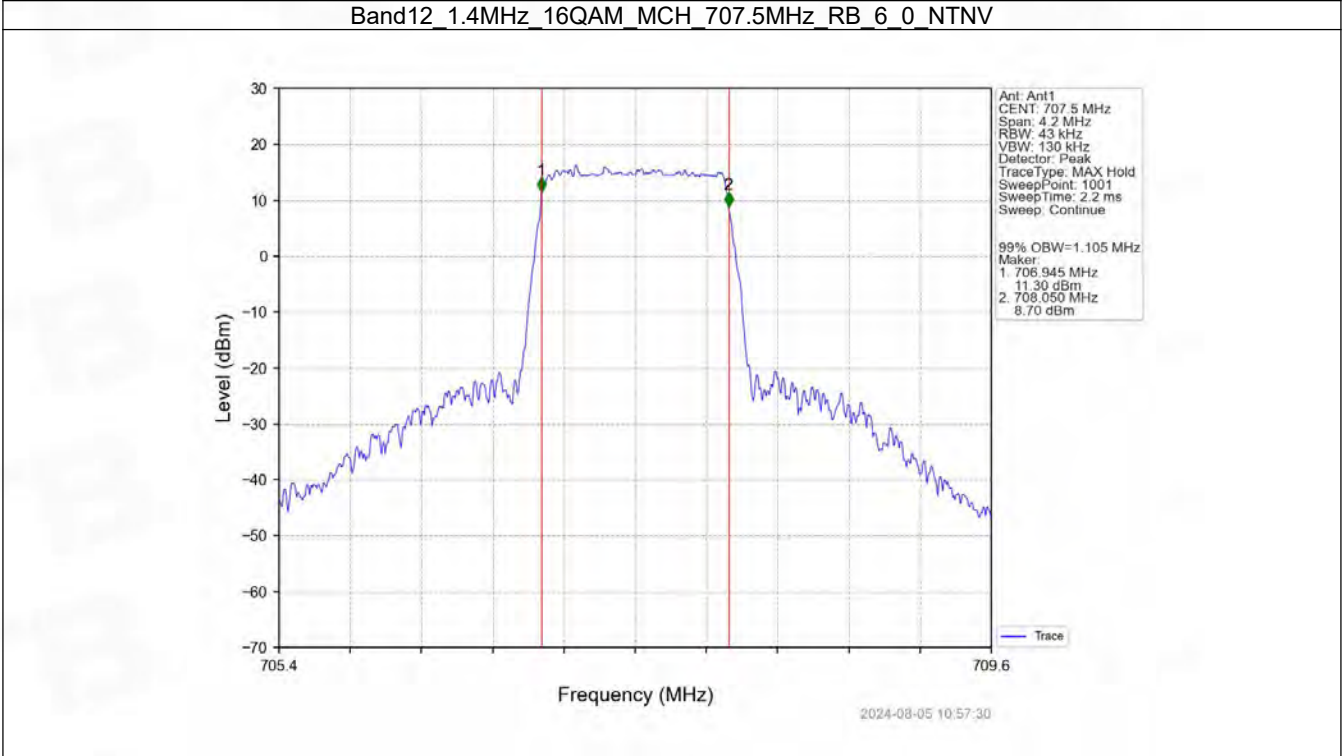


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV

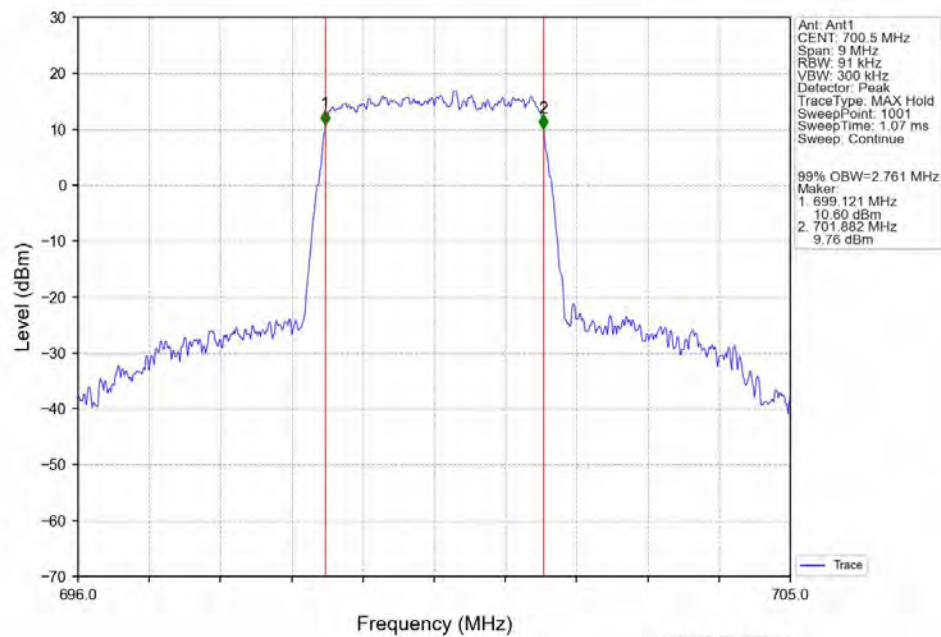


Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

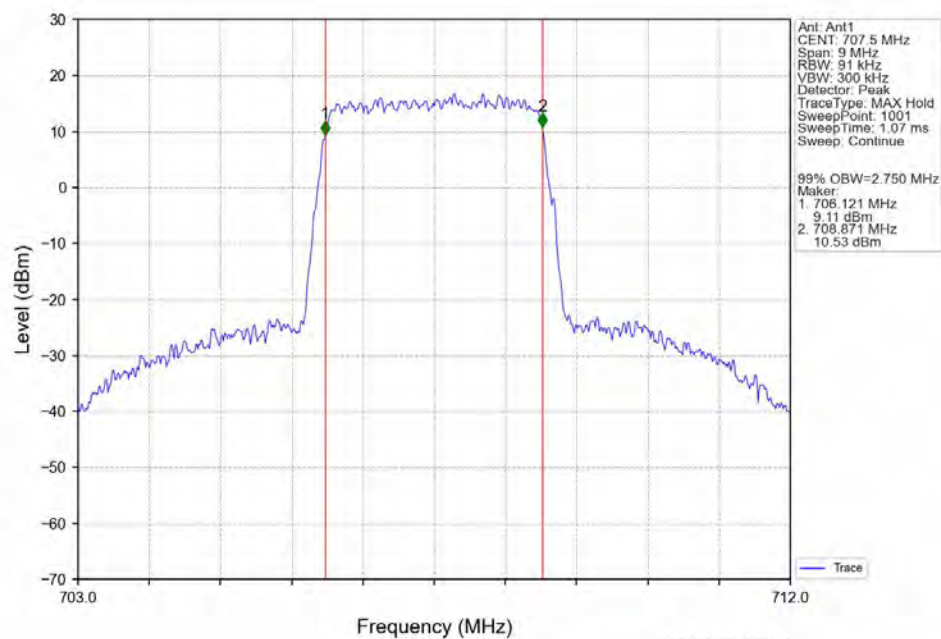




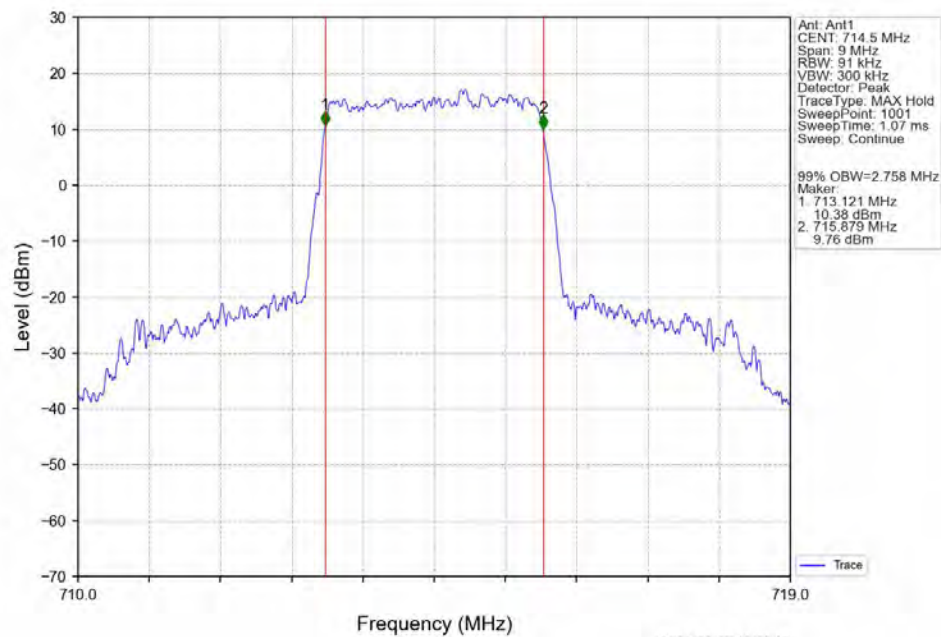
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



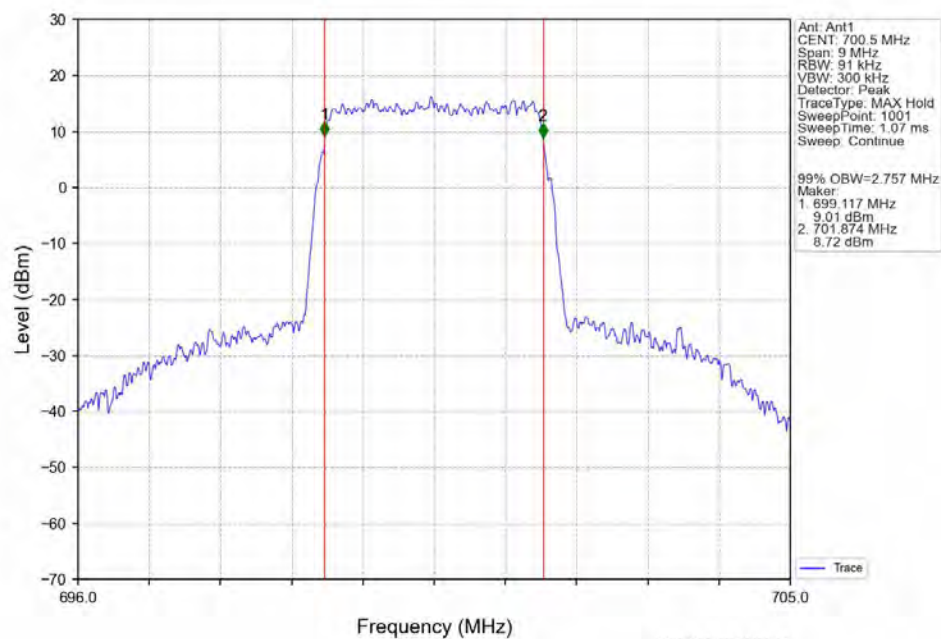
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



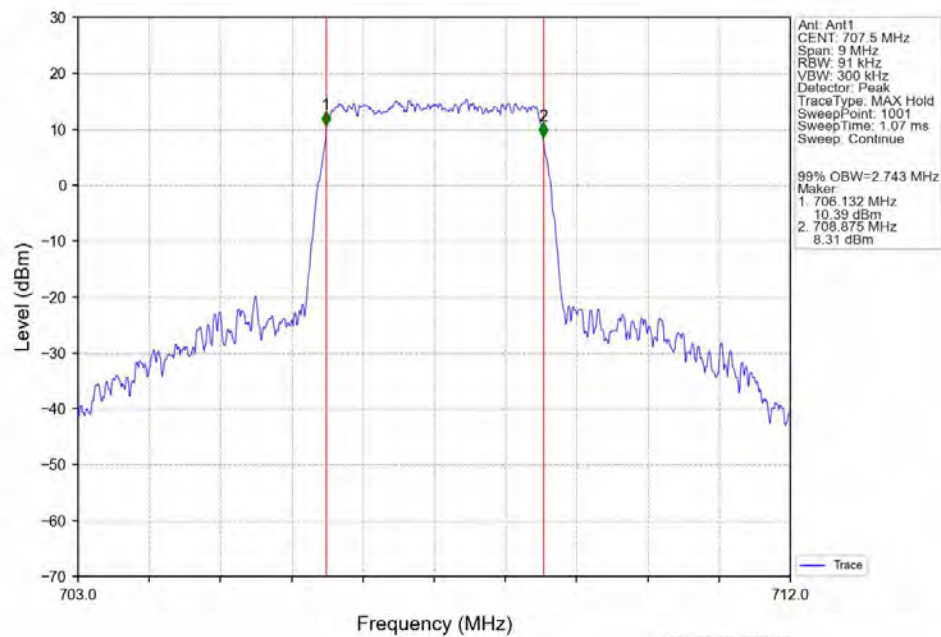
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

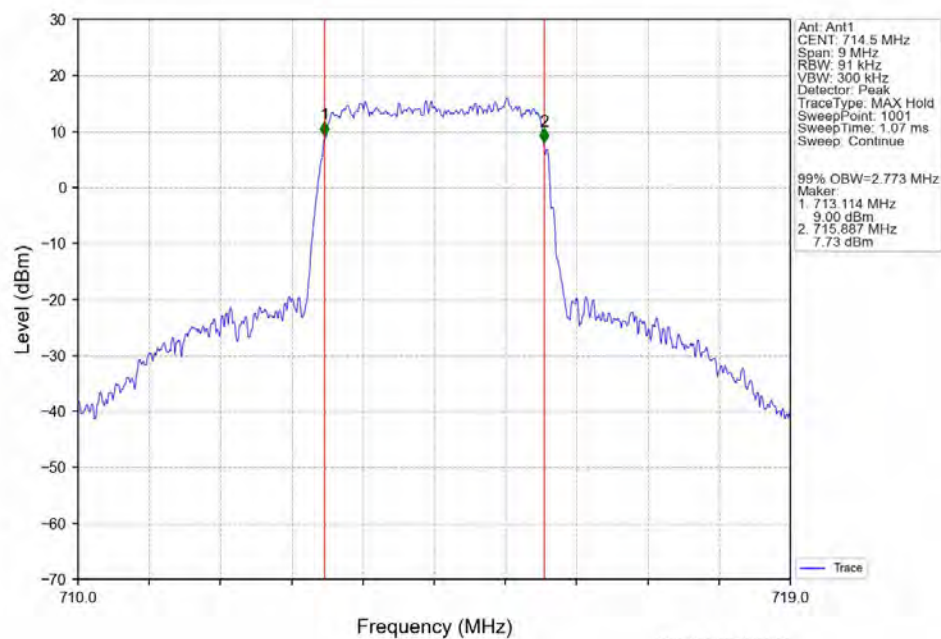


Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



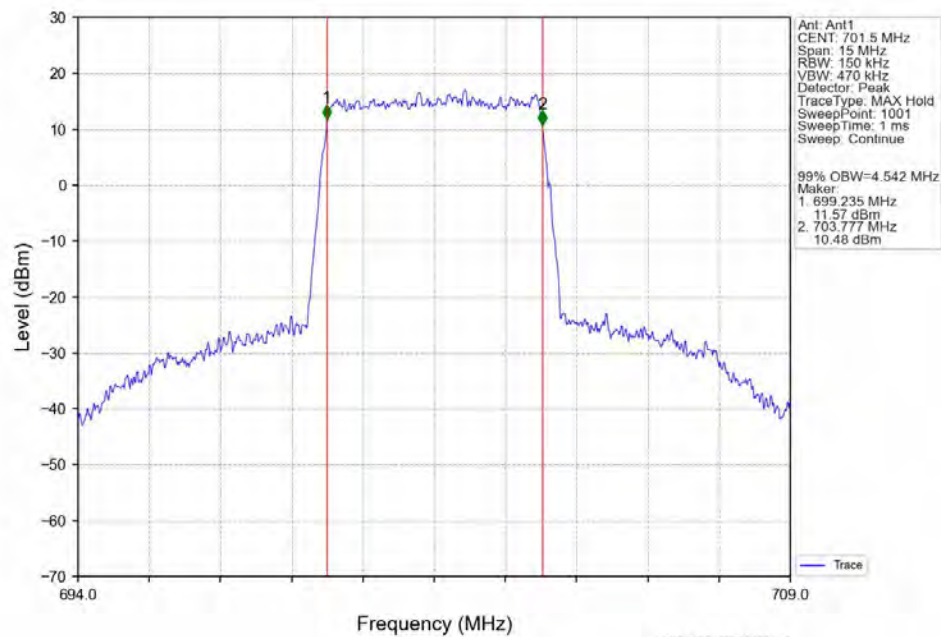
2024-08-05 10:58:50

Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

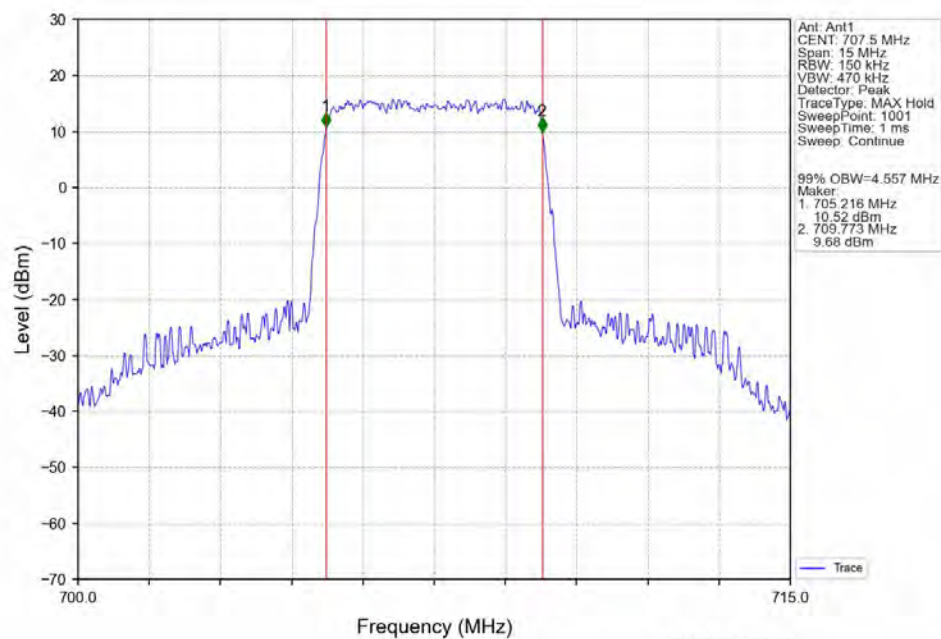


2024-08-05 10:59:09

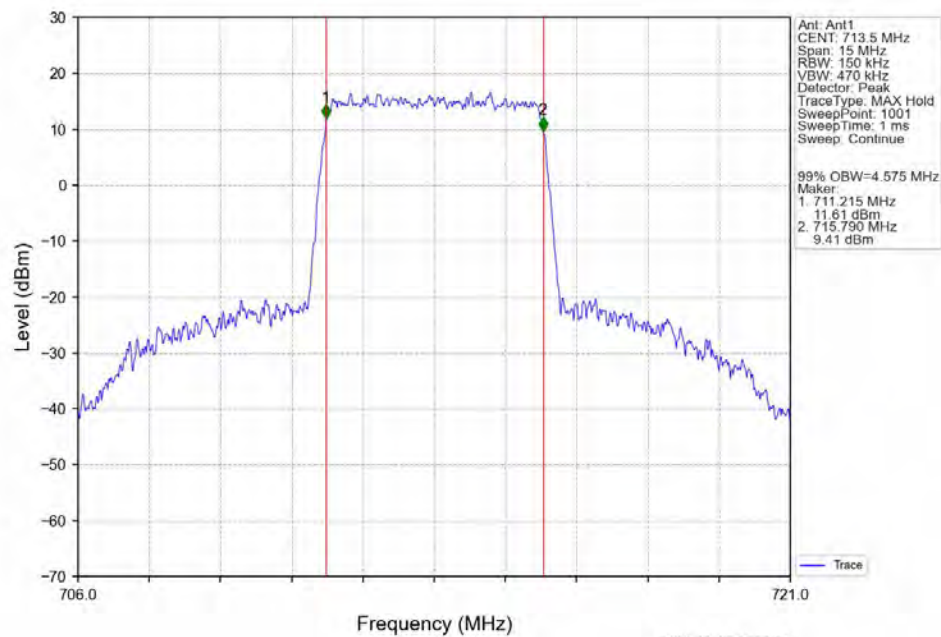
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



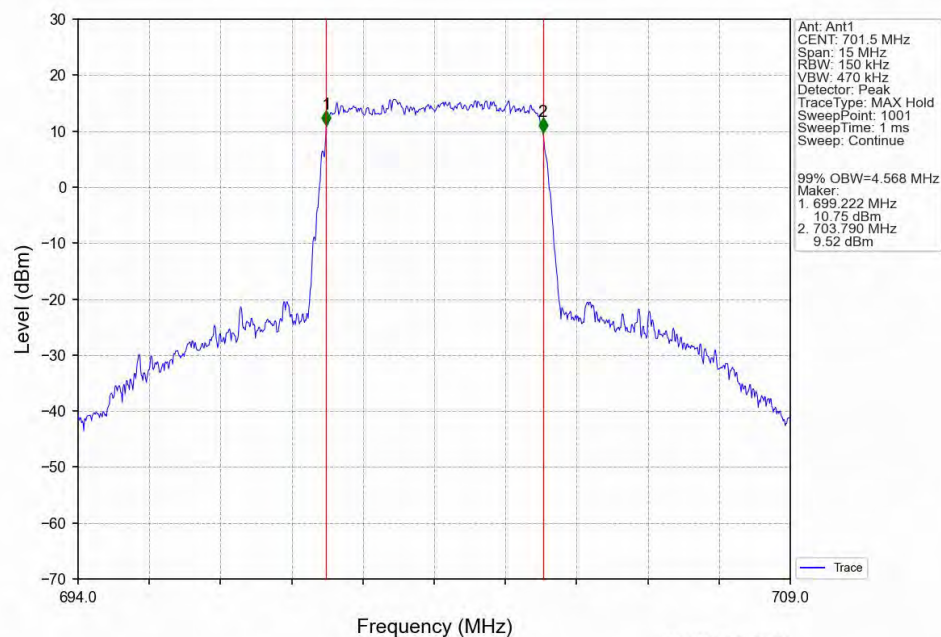
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



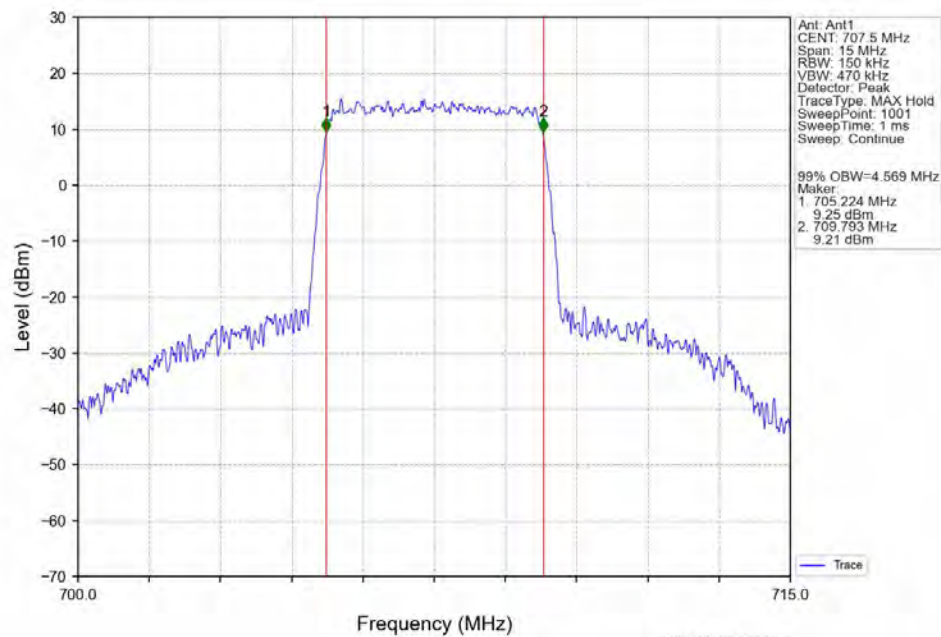
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



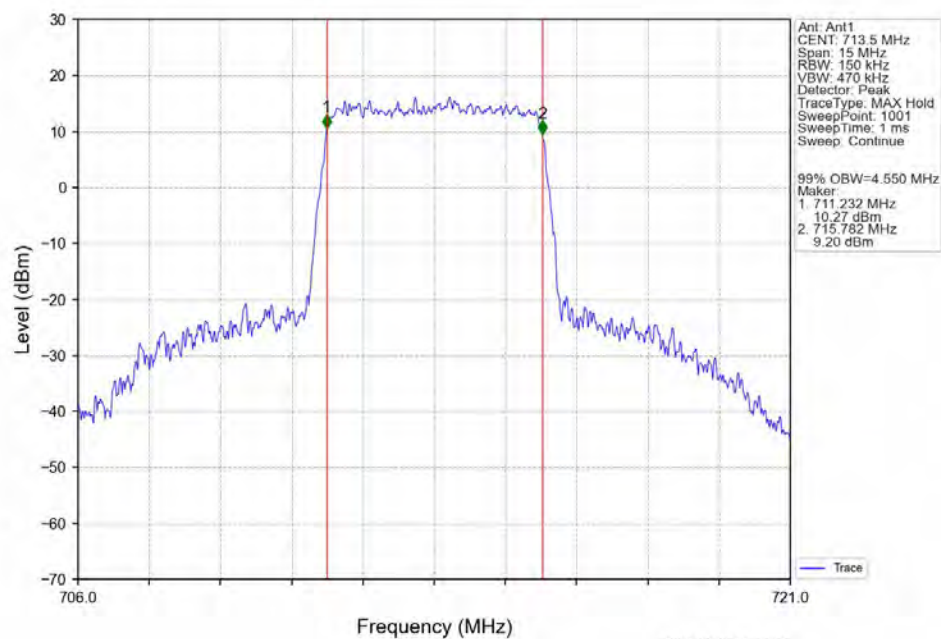
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



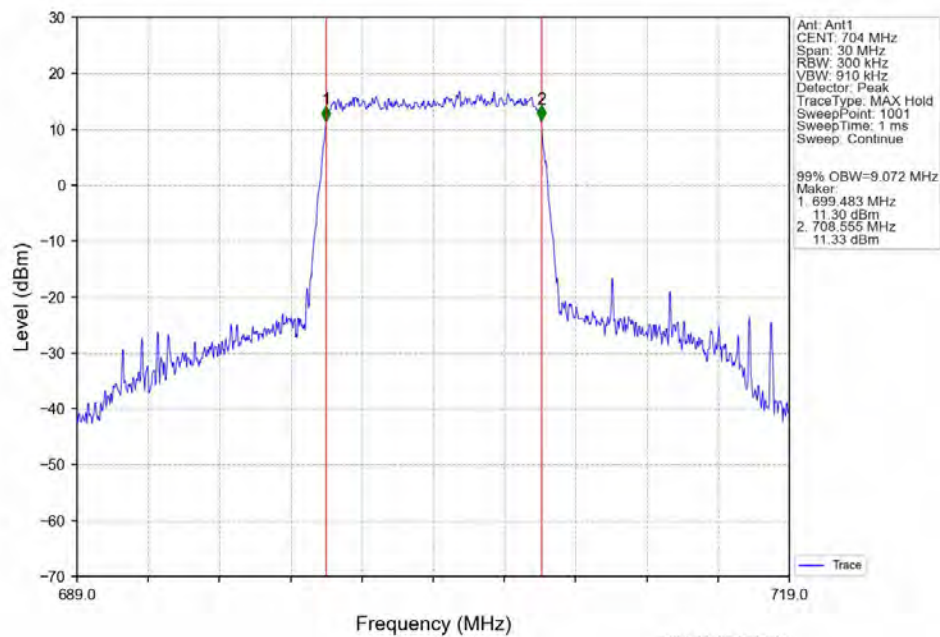
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

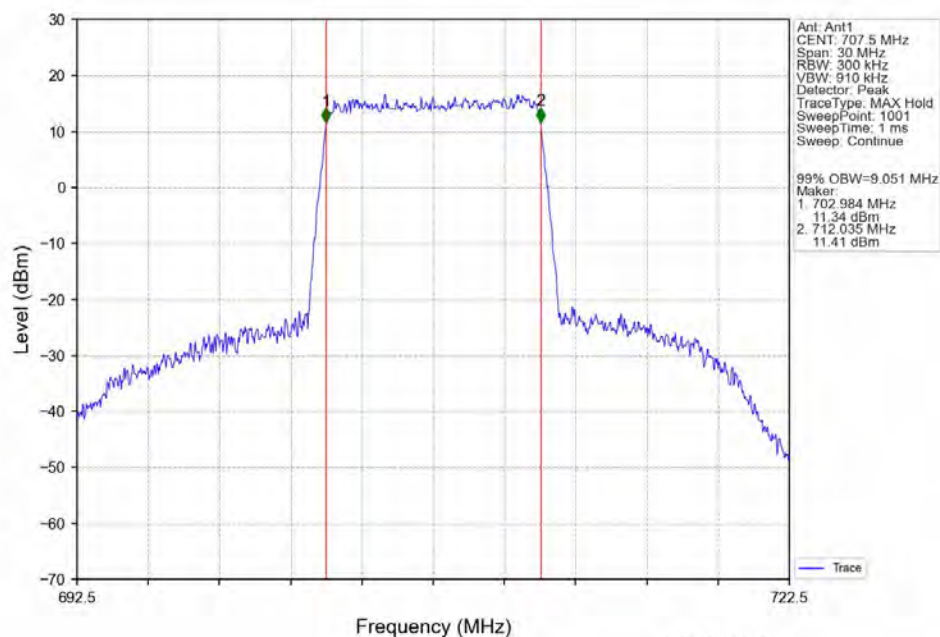


Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



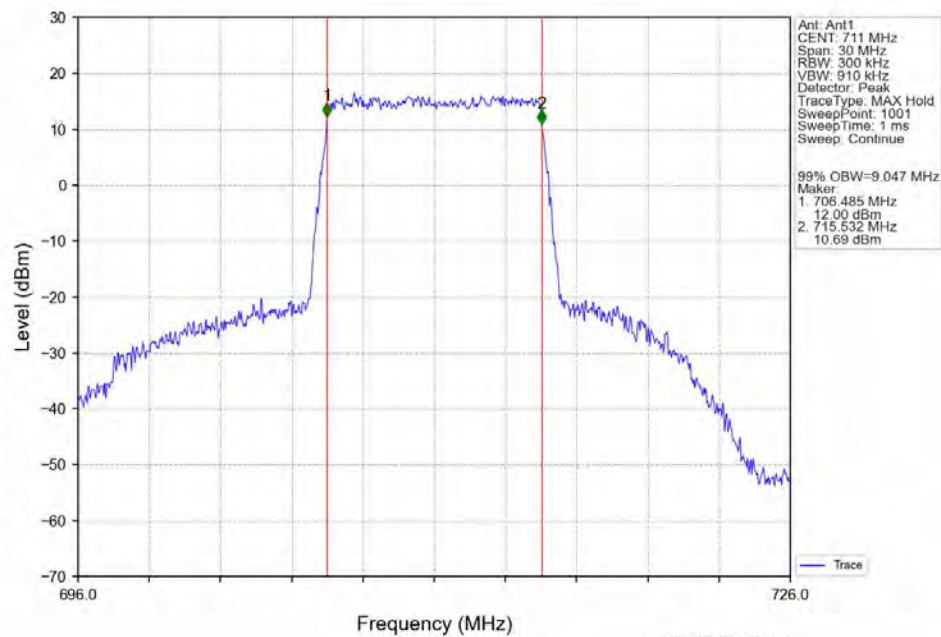
2024-08-05 11:01:04

Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV

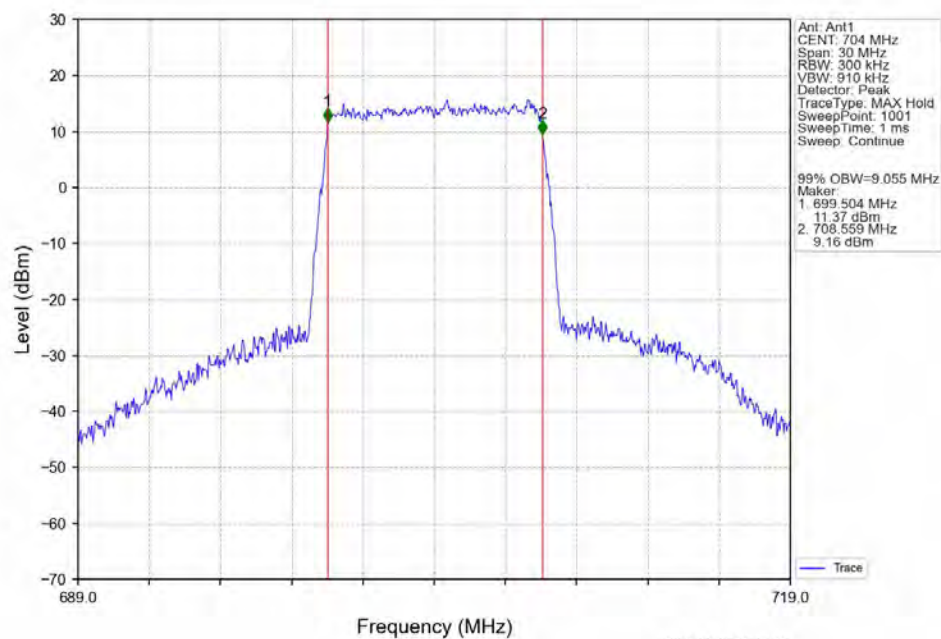


2024-08-05 11:01:24

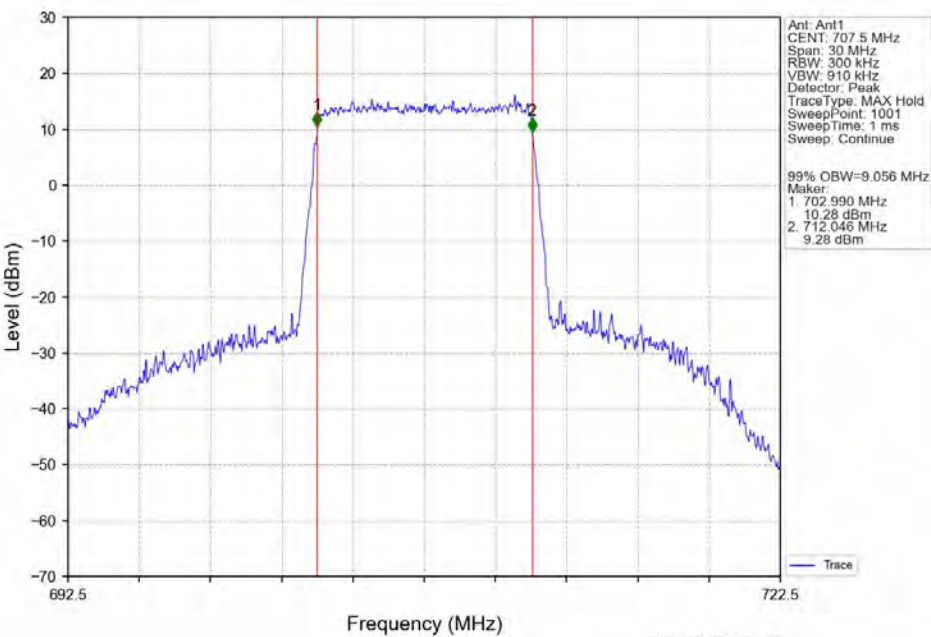
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV

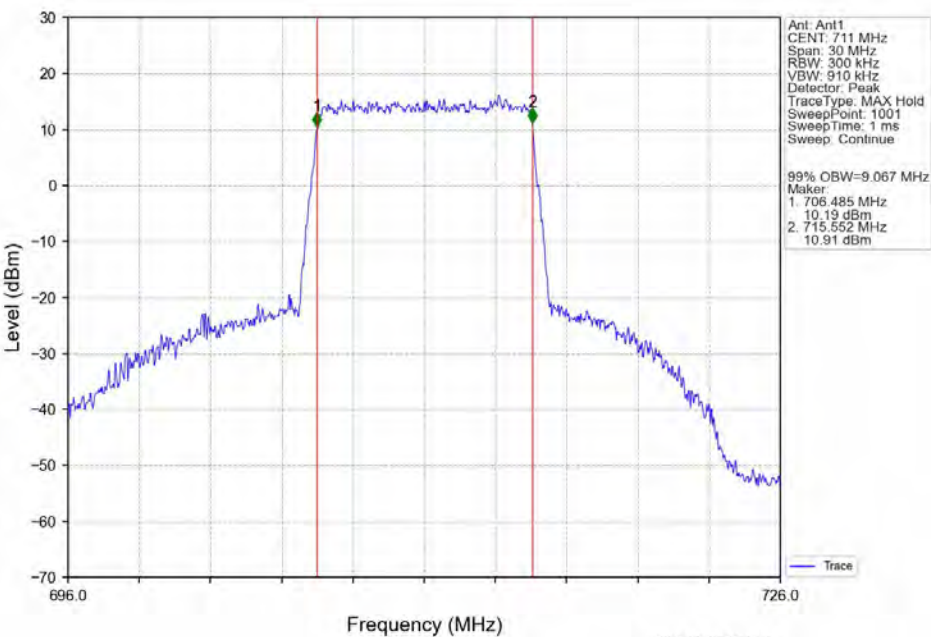


Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



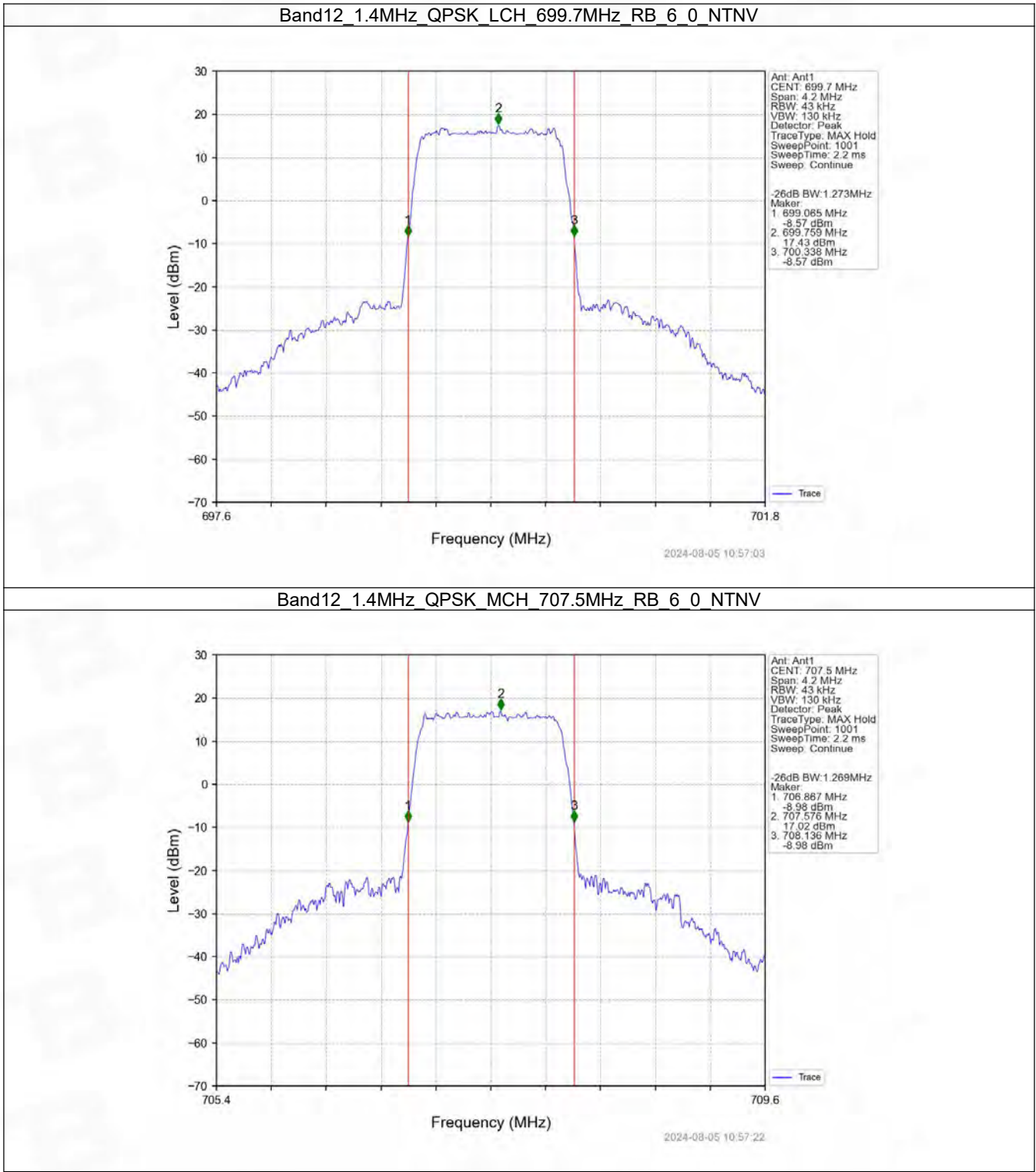
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Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

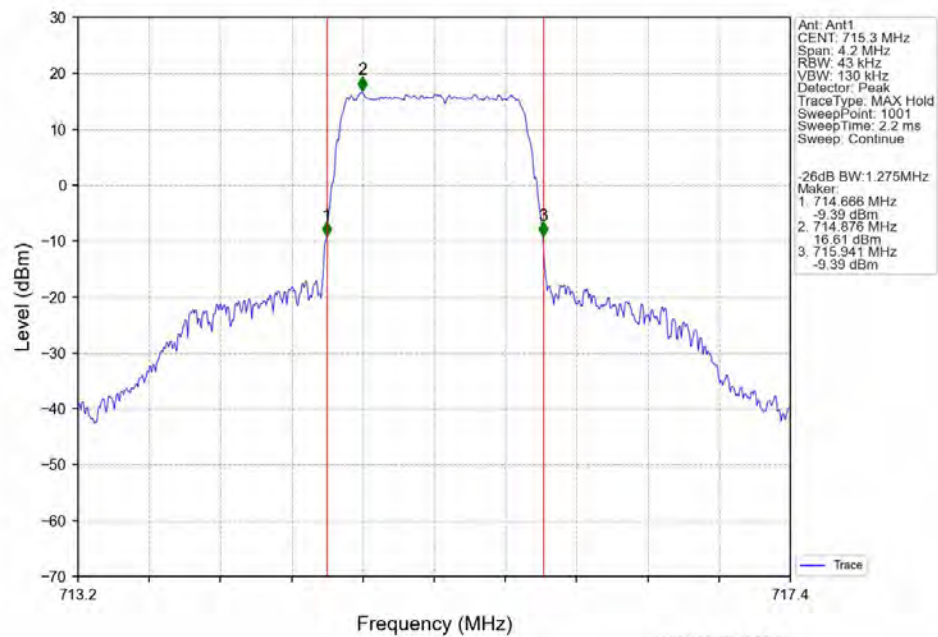


2024-08-05 11:01:51

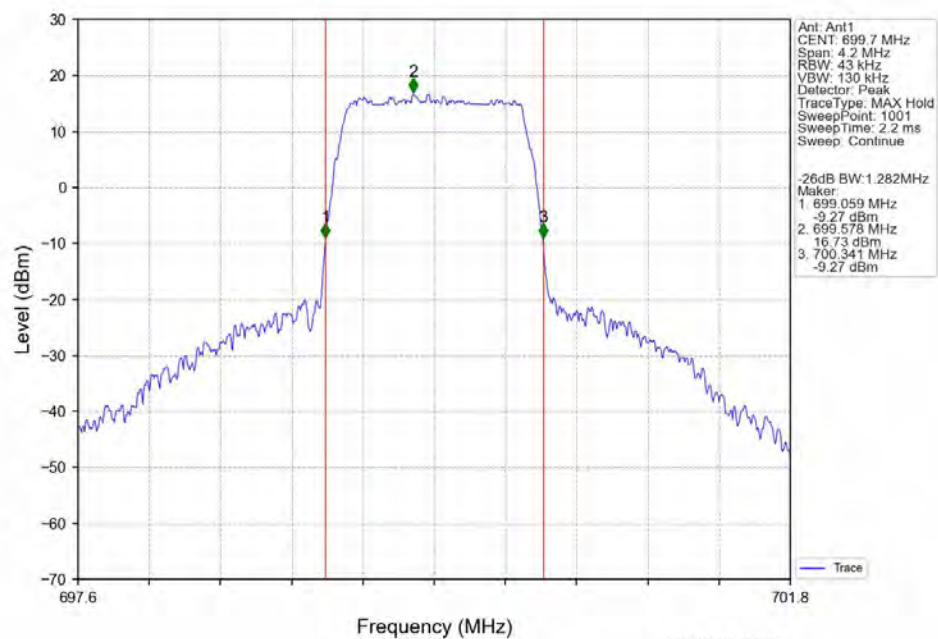
4.2.2 Band12_XDB



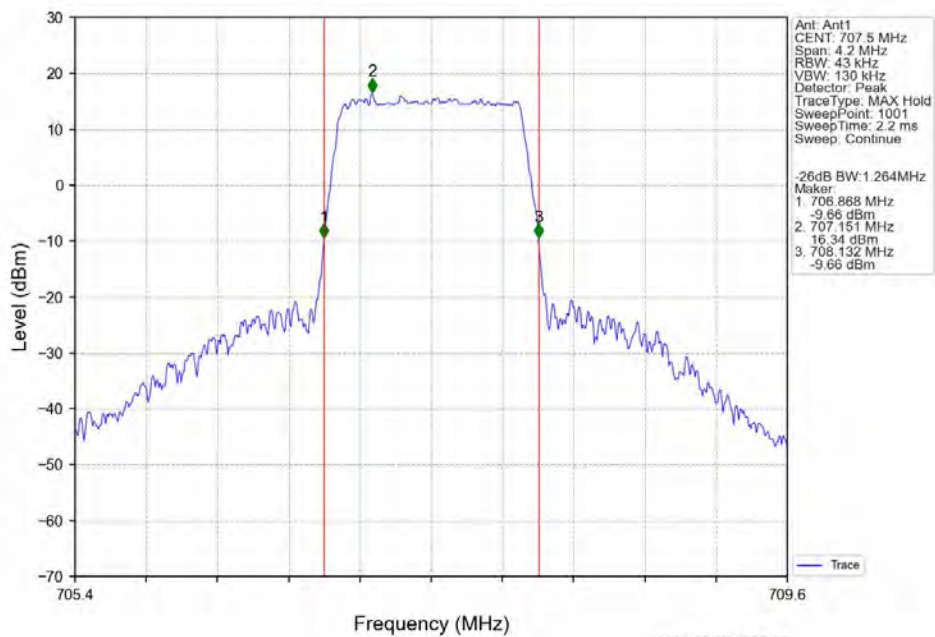
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



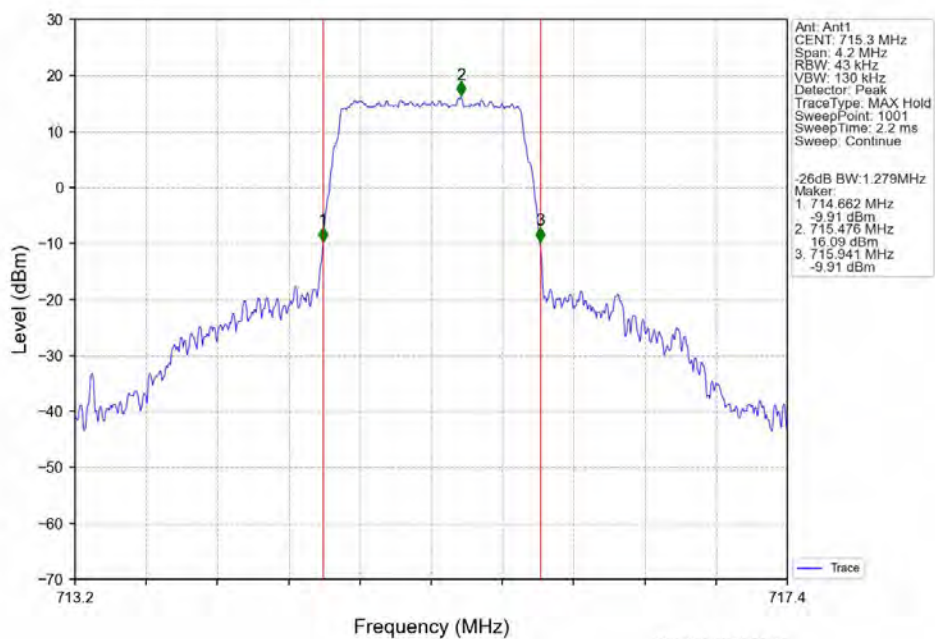
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



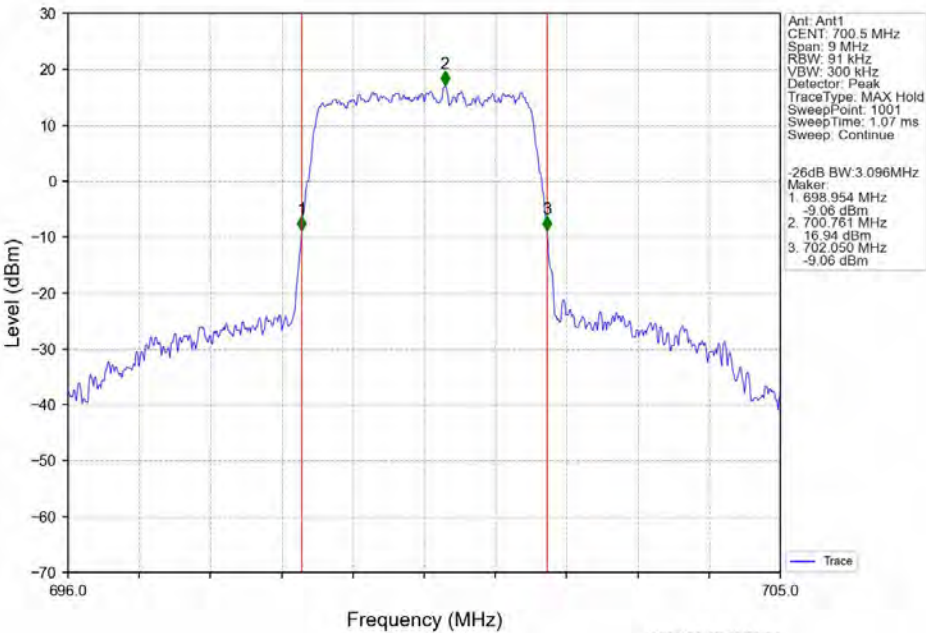
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



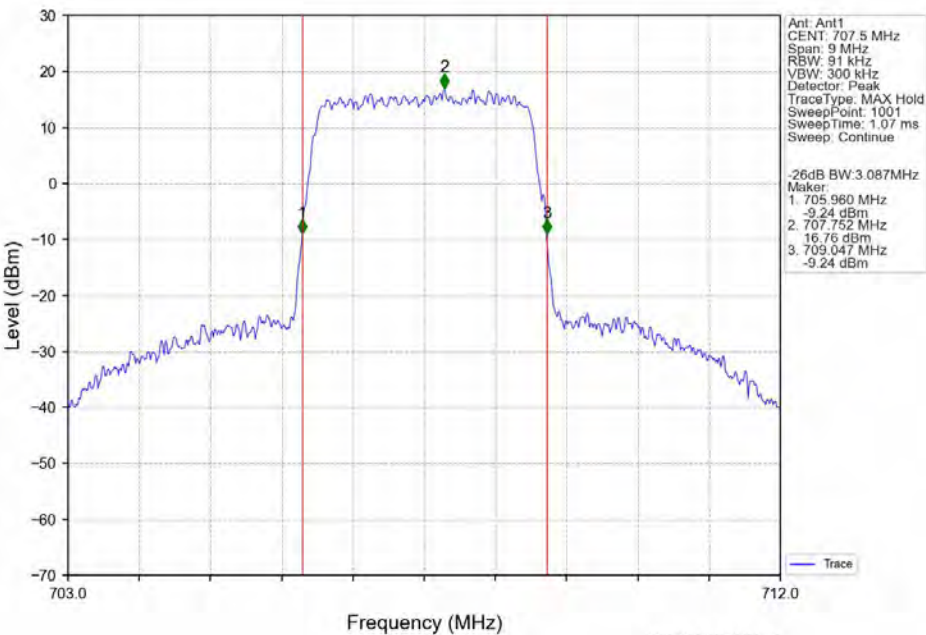
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



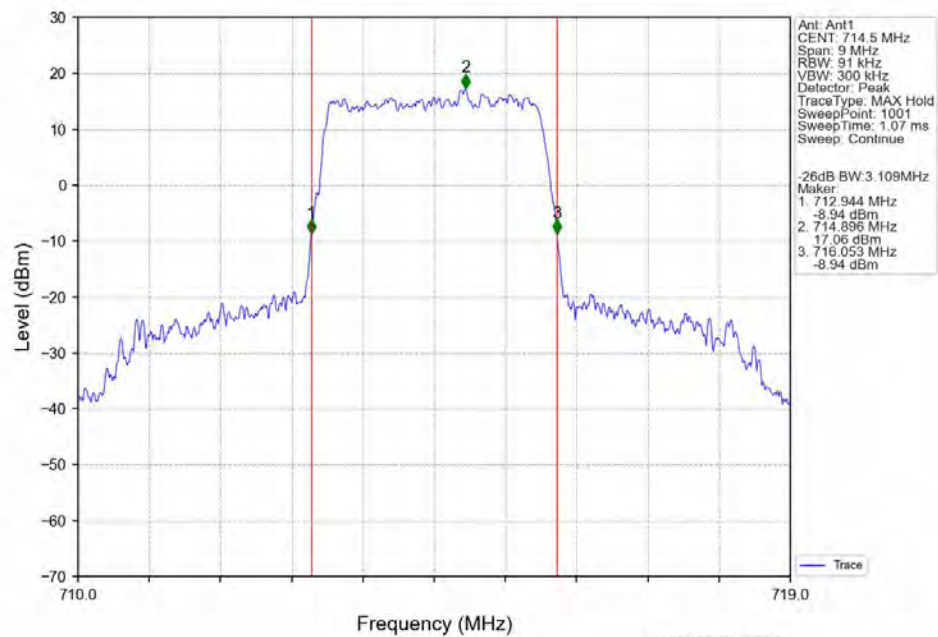
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



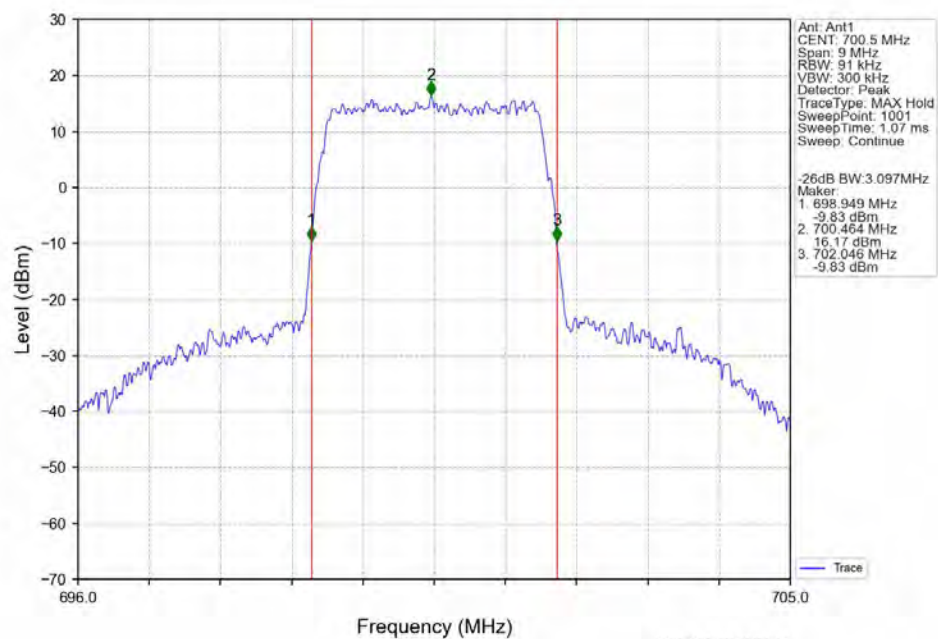
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



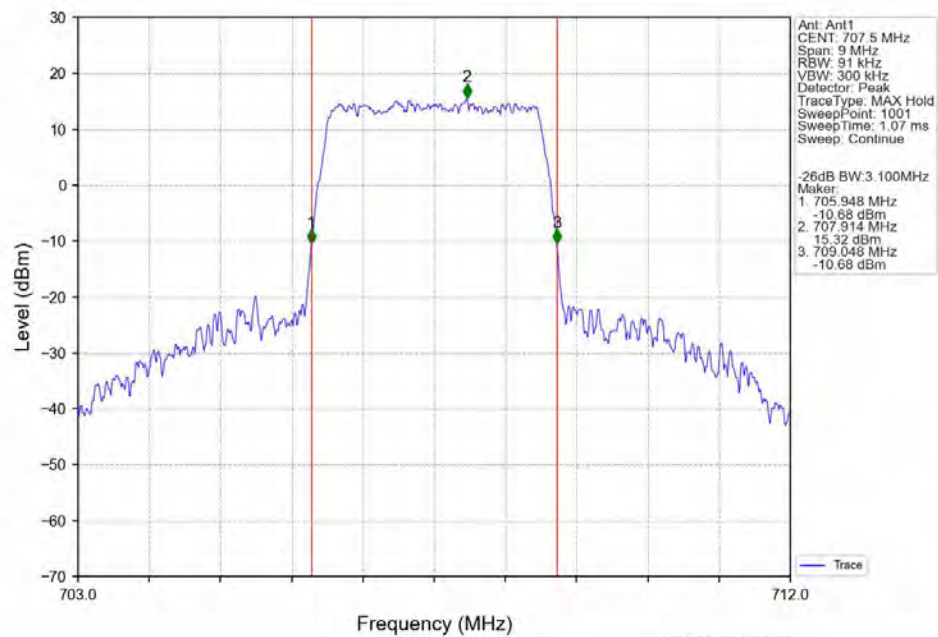
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



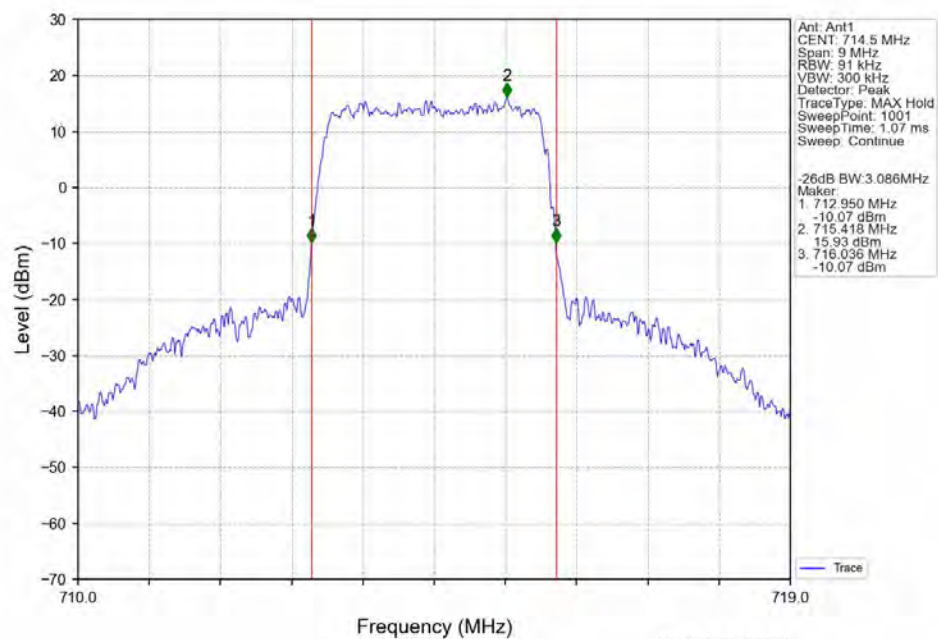
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



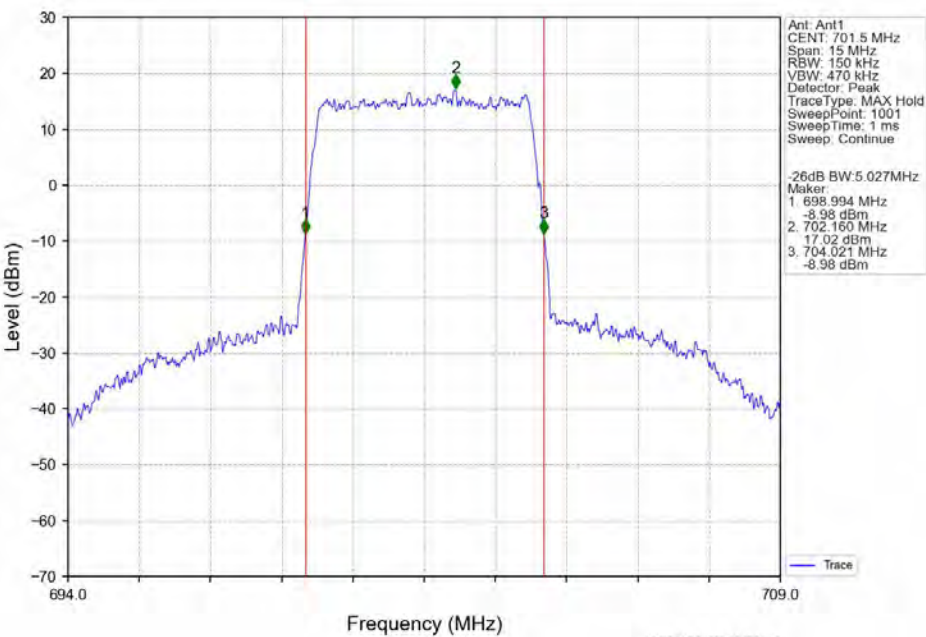
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



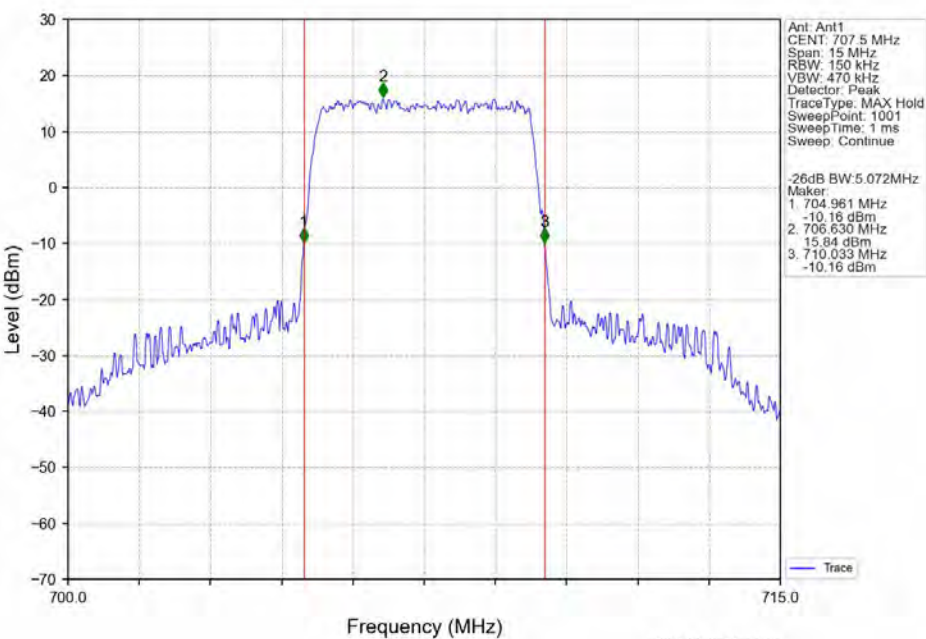
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



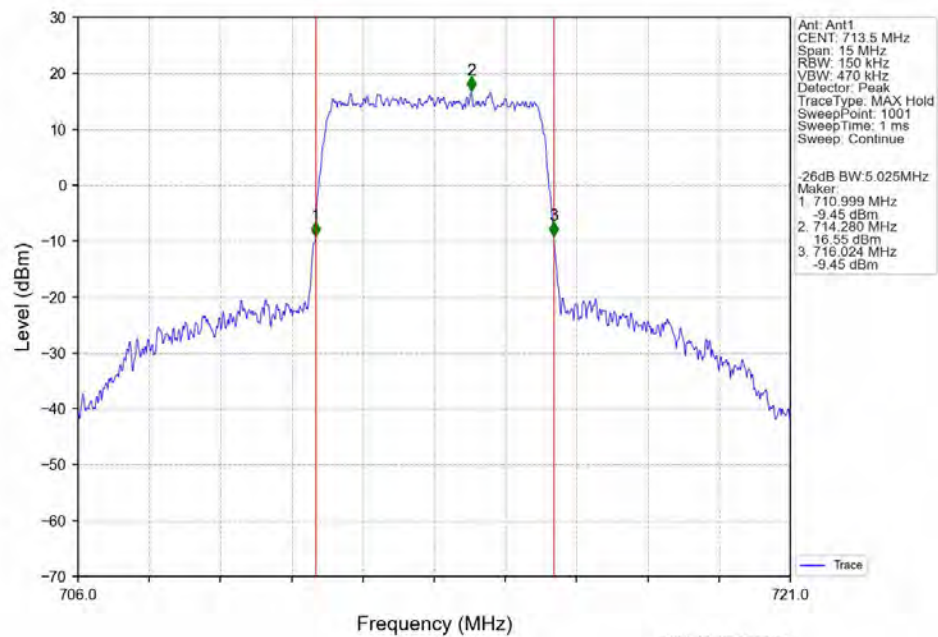
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



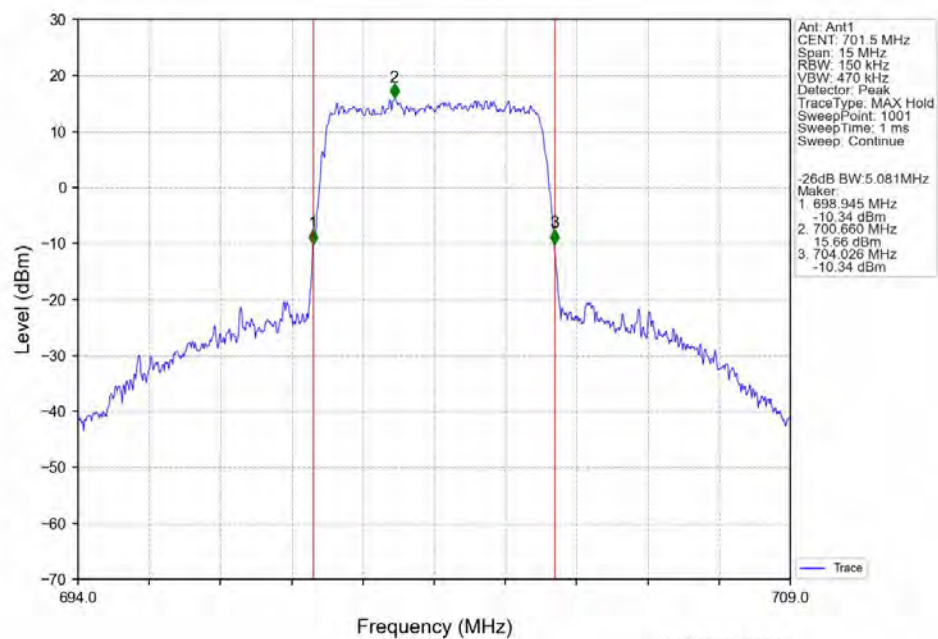
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



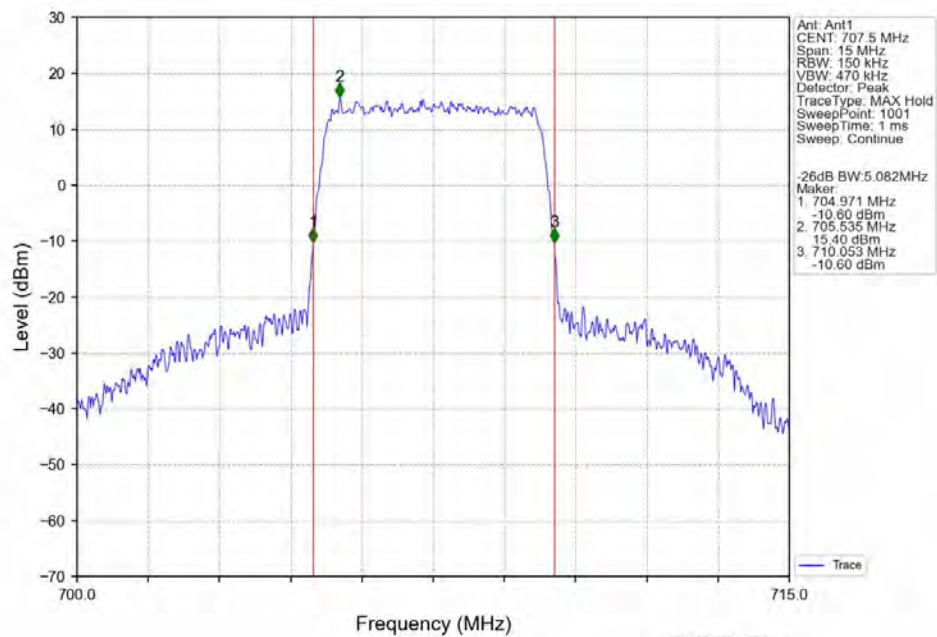
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



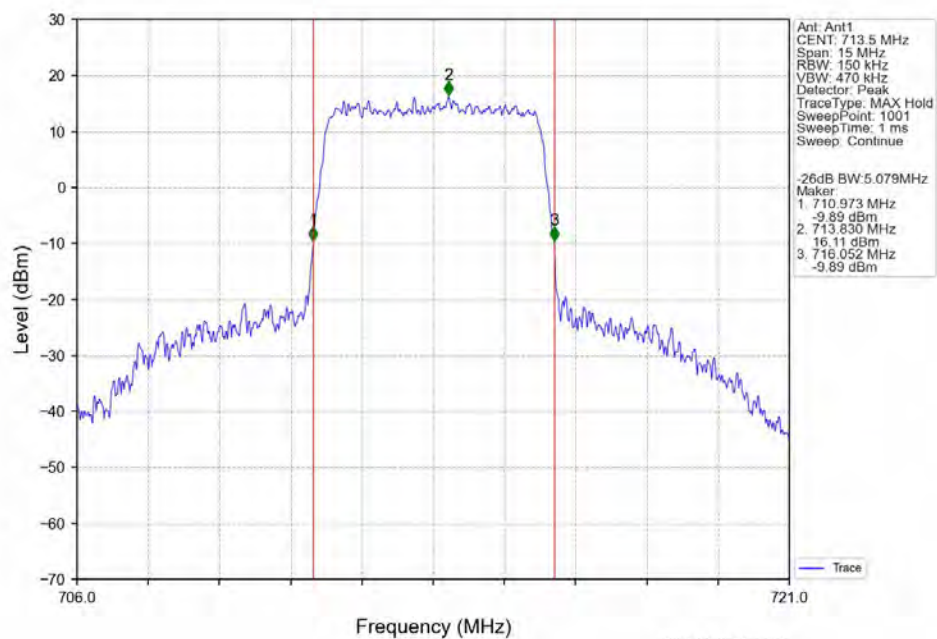
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



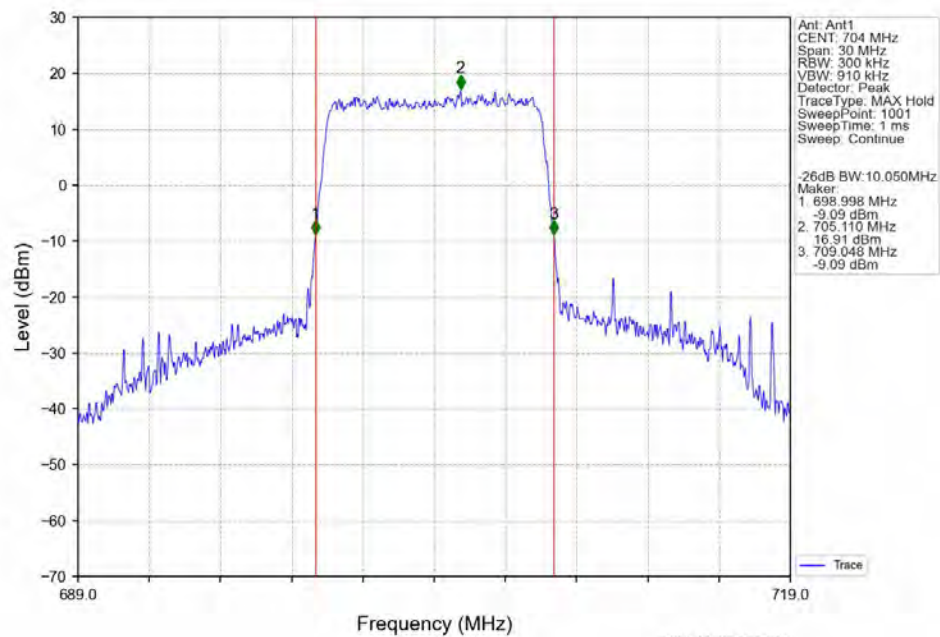
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



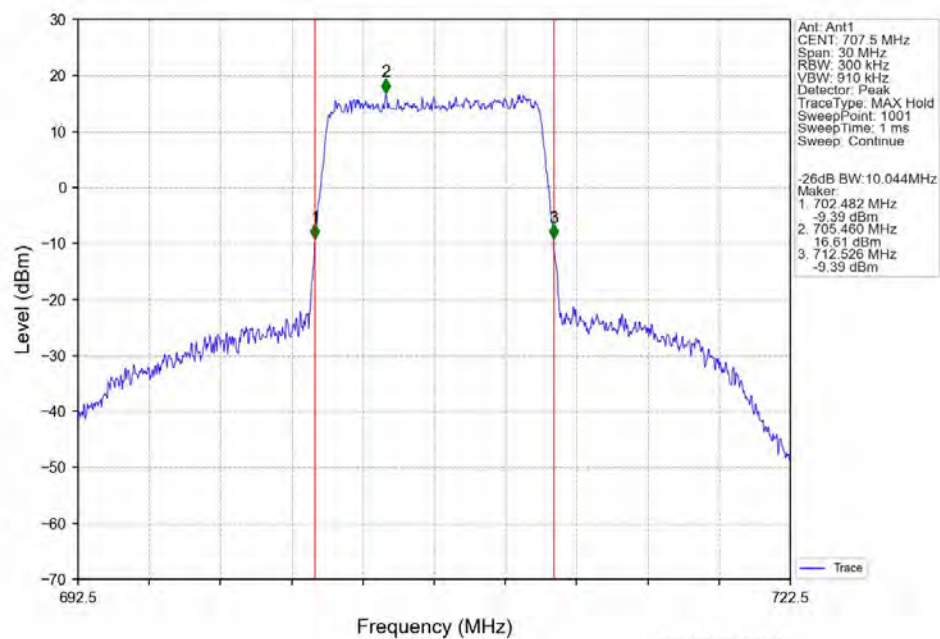
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



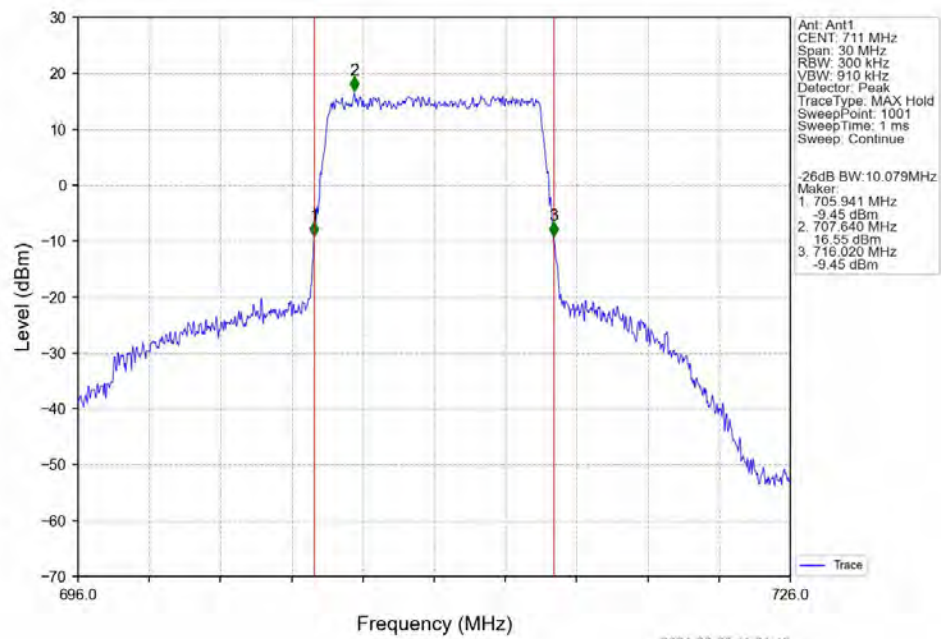
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



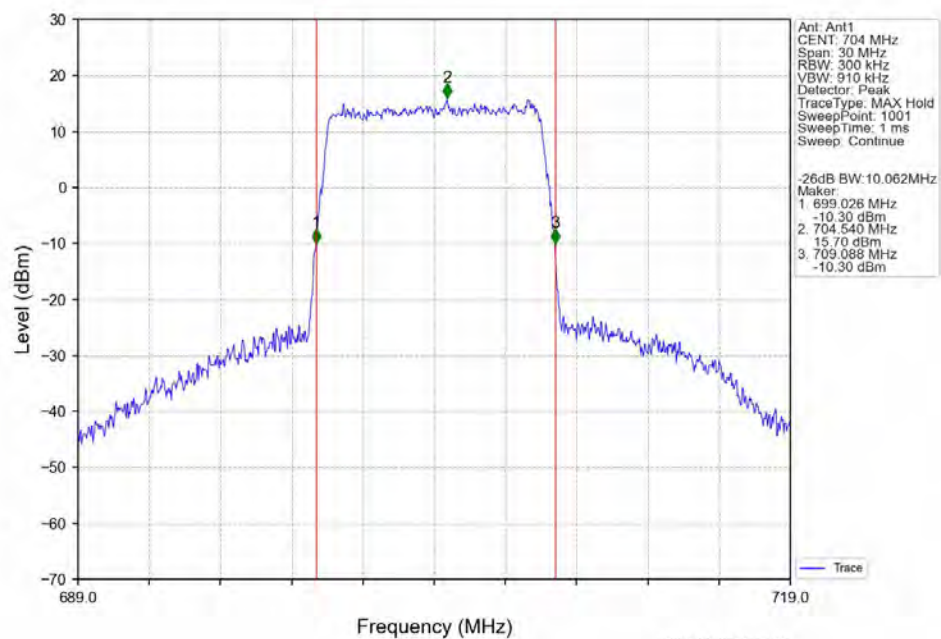
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



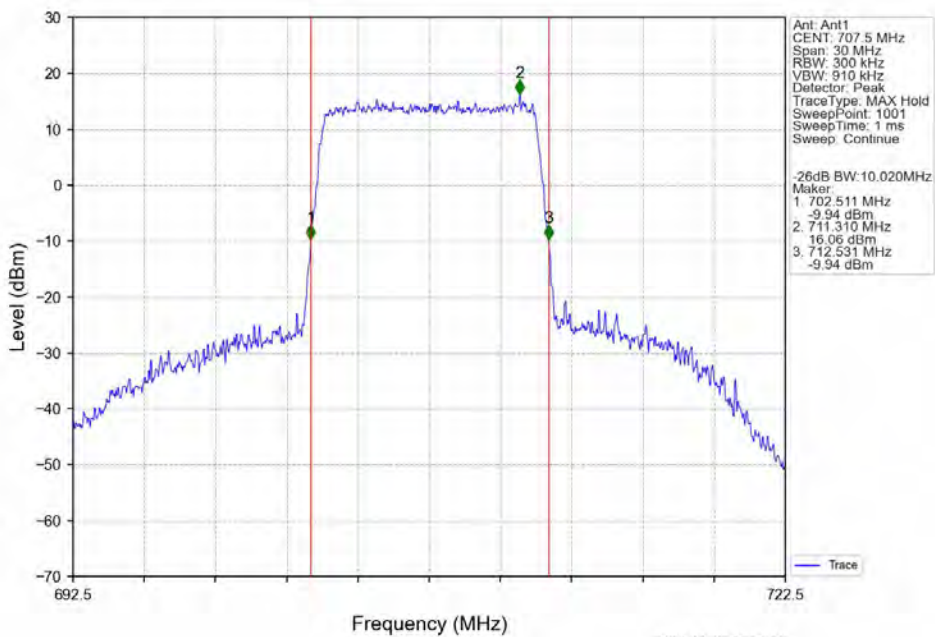
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



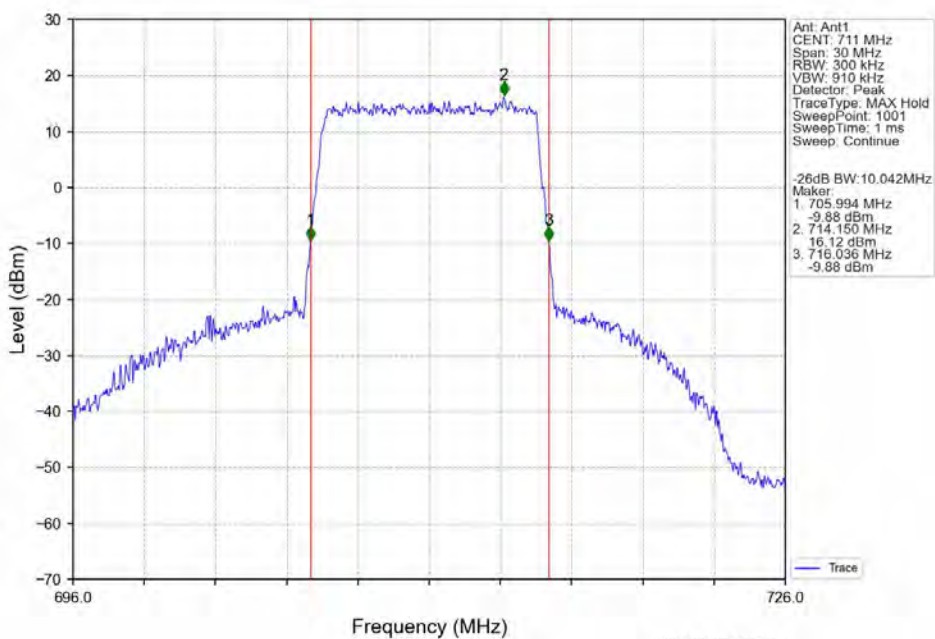
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



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 Test Result

5.1.1 B12_1.4MHz

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	5.31	<=13	Pass
	707.5	6	0	5.23	<=13	Pass
	715.3	6	0	4.96	<=13	Pass
16QAM	699.7	6	0	5.93	<=13	Pass
	707.5	6	0	6.11	<=13	Pass
	715.3	6	0	5.76	<=13	Pass

5.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.34	<=13	Pass
	707.5	15	0	5.26	<=13	Pass
	714.5	15	0	5.12	<=13	Pass
16QAM	700.5	15	0	6.07	<=13	Pass
	707.5	15	0	6.11	<=13	Pass
	714.5	15	0	5.93	<=13	Pass

5.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.44	<=13	Pass
	707.5	25	0	5.46	<=13	Pass
	713.5	25	0	5.37	<=13	Pass
16QAM	701.5	25	0	6.11	<=13	Pass
	707.5	25	0	6.14	<=13	Pass
	713.5	25	0	6.07	<=13	Pass

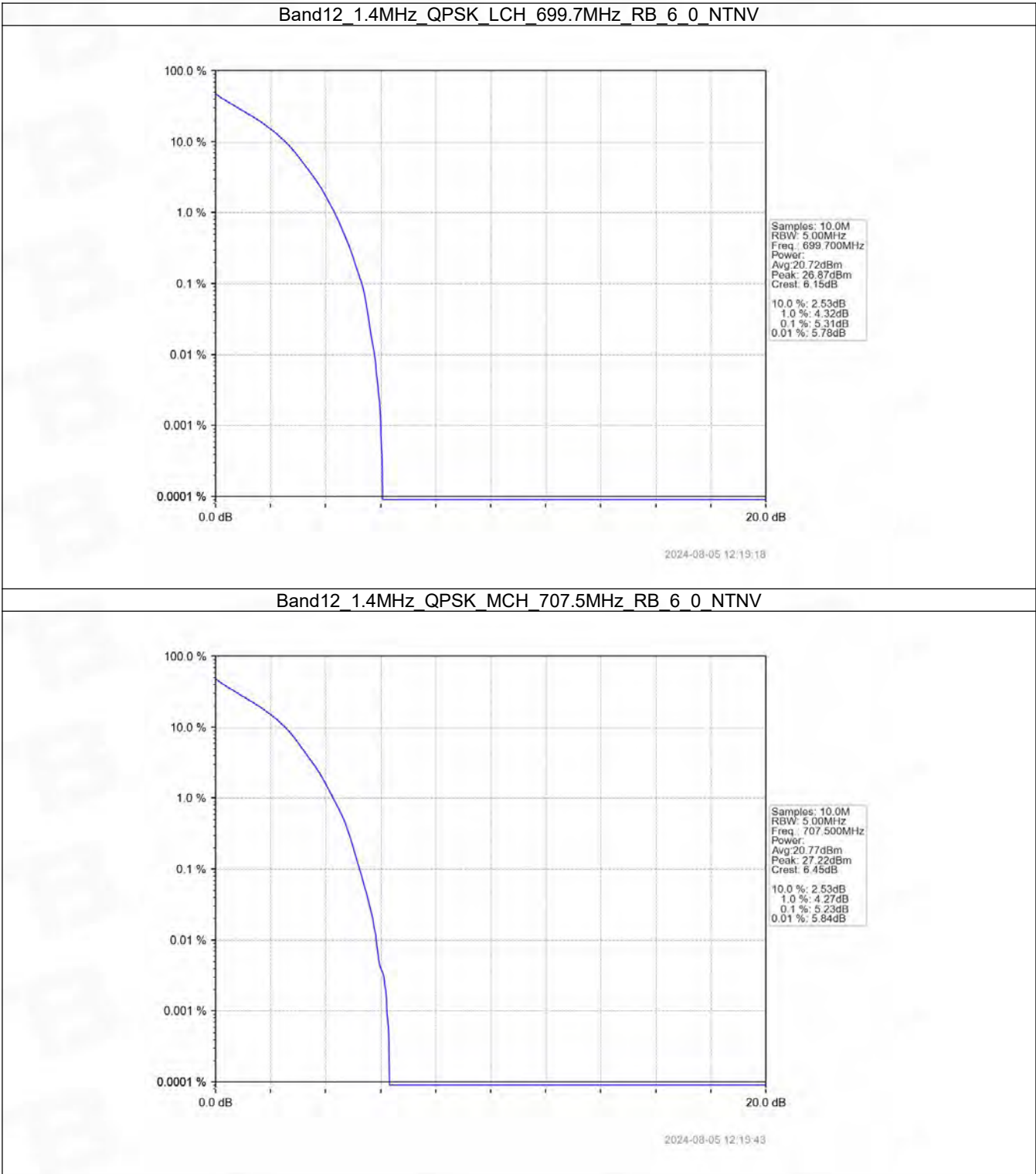
5.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.46	<=13	Pass
	707.5	50	0	5.47	<=13	Pass
	711	50	0	5.41	<=13	Pass
16QAM	704	50	0	6.19	<=13	Pass
	707.5	50	0	6.21	<=13	Pass

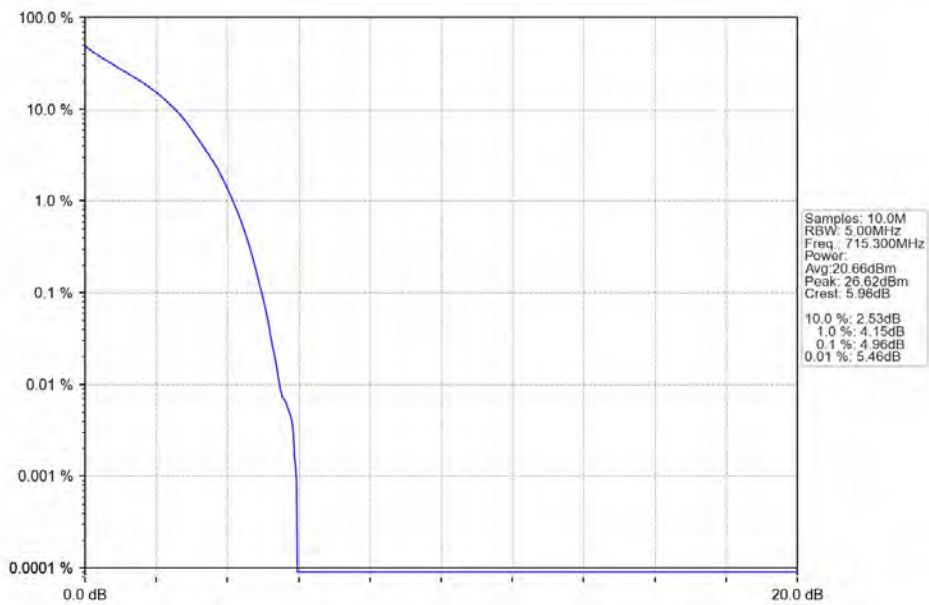
	711	50	0	6.10	<=13	Pass
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5.2 Test Graph

5.2.1 B12_1.4MHz

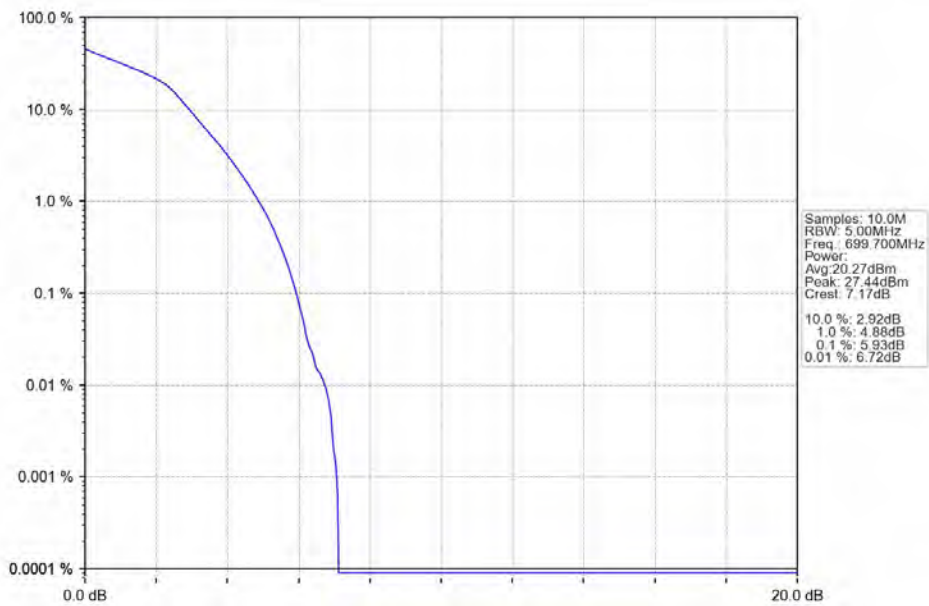


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



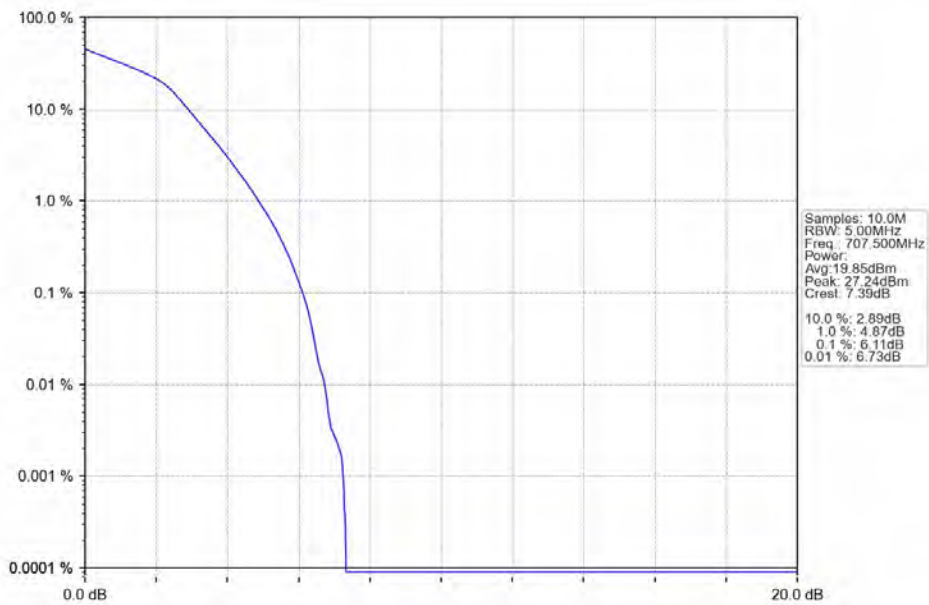
2024-08-05 12:20:10

Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



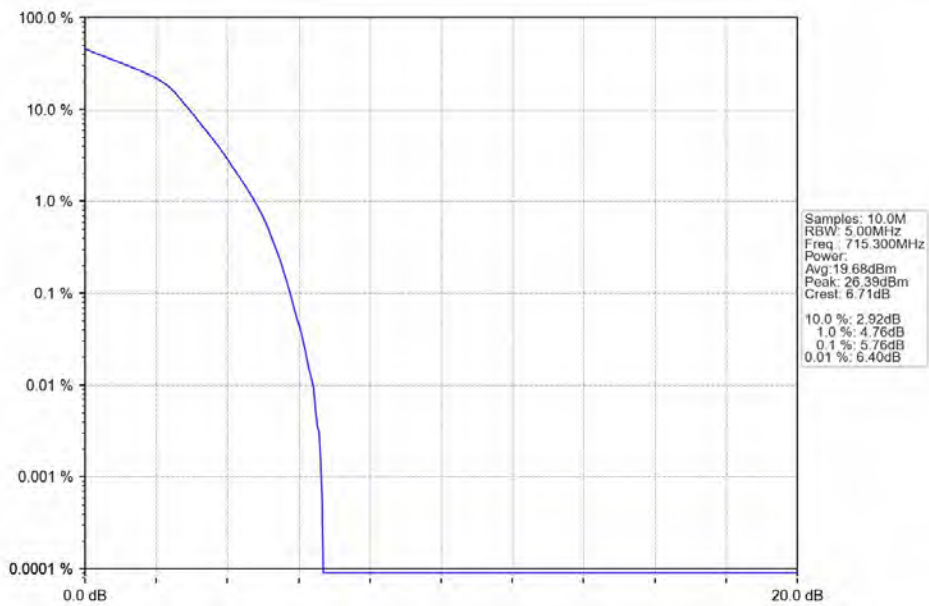
2024-08-05 12:19:30

Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



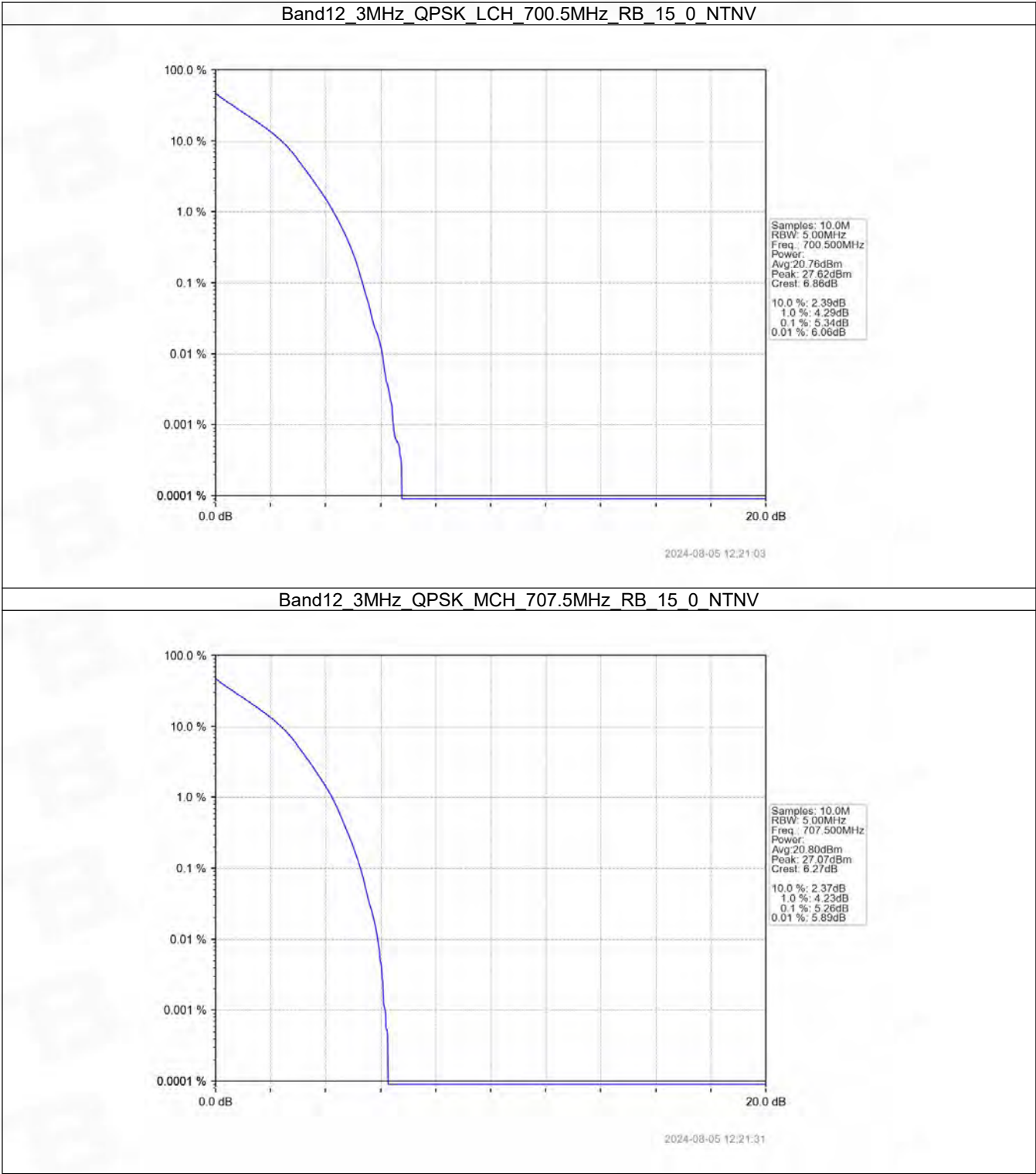
2024-08-05 12:19:56

Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV

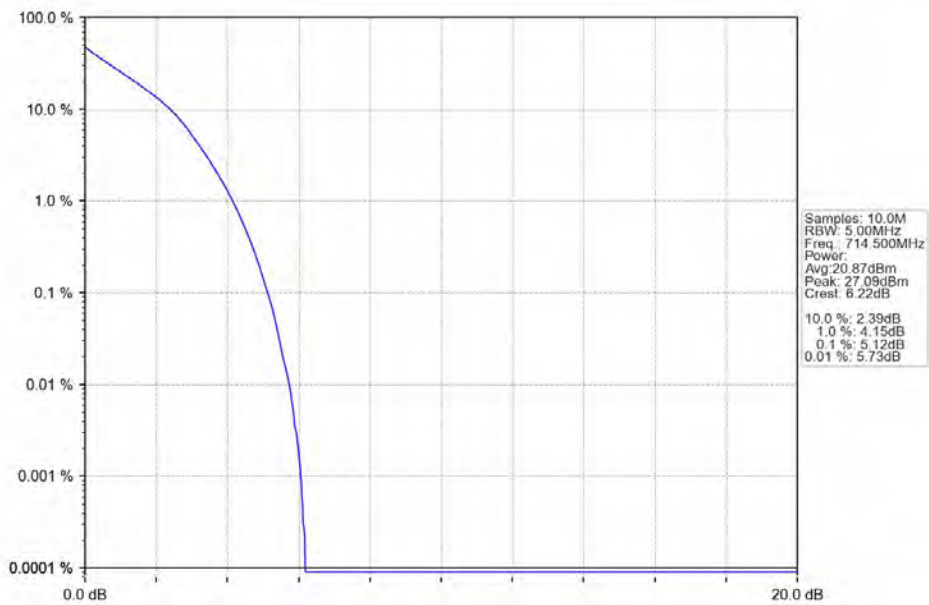


2024-08-05 12:20:24

5.2.2 B12_3MHz

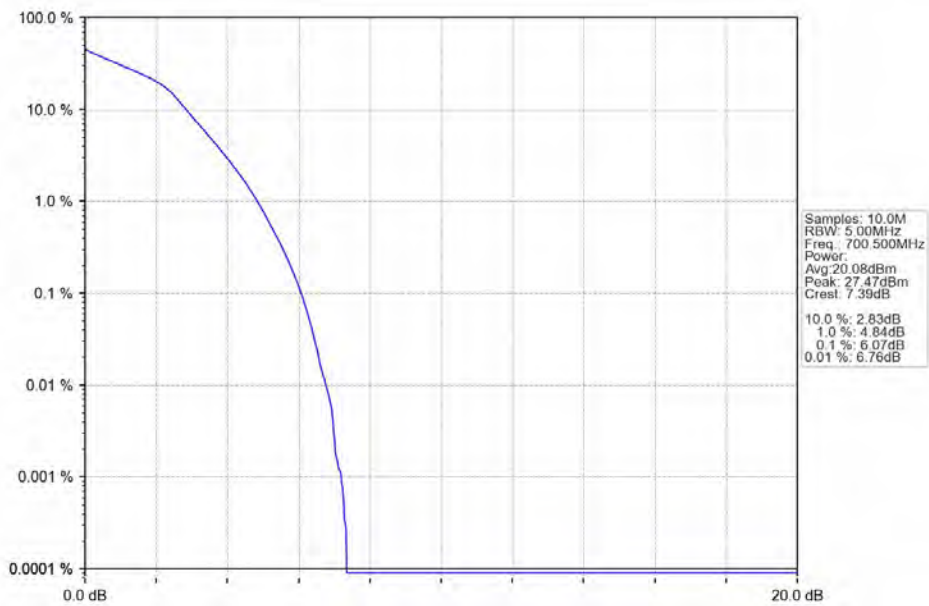


Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



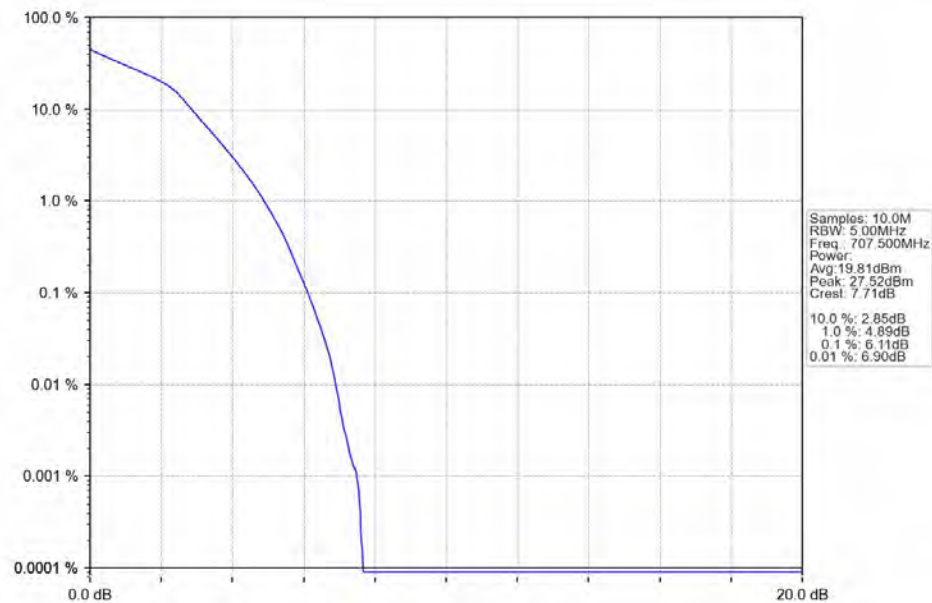
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Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



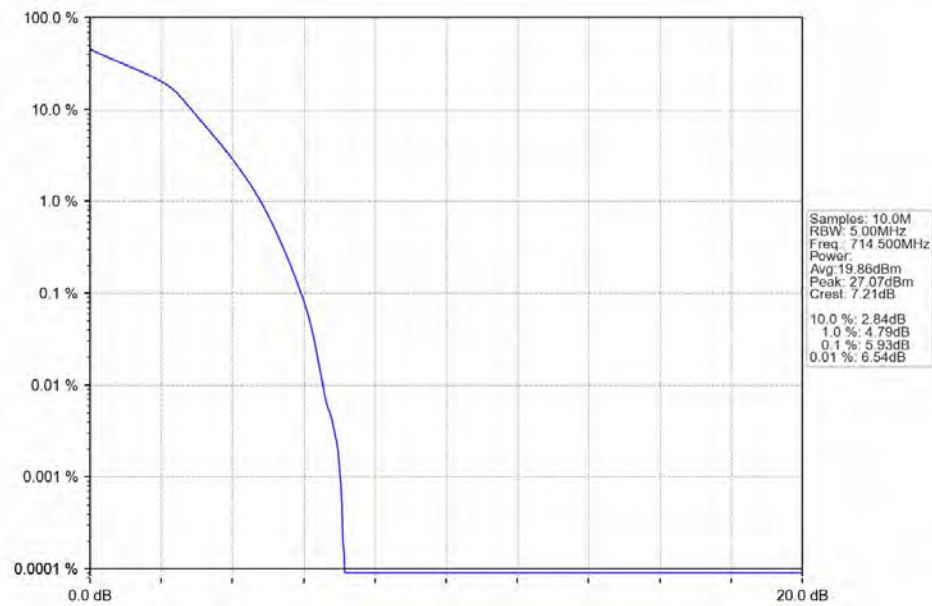
2024-08-05 12:21:10

Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



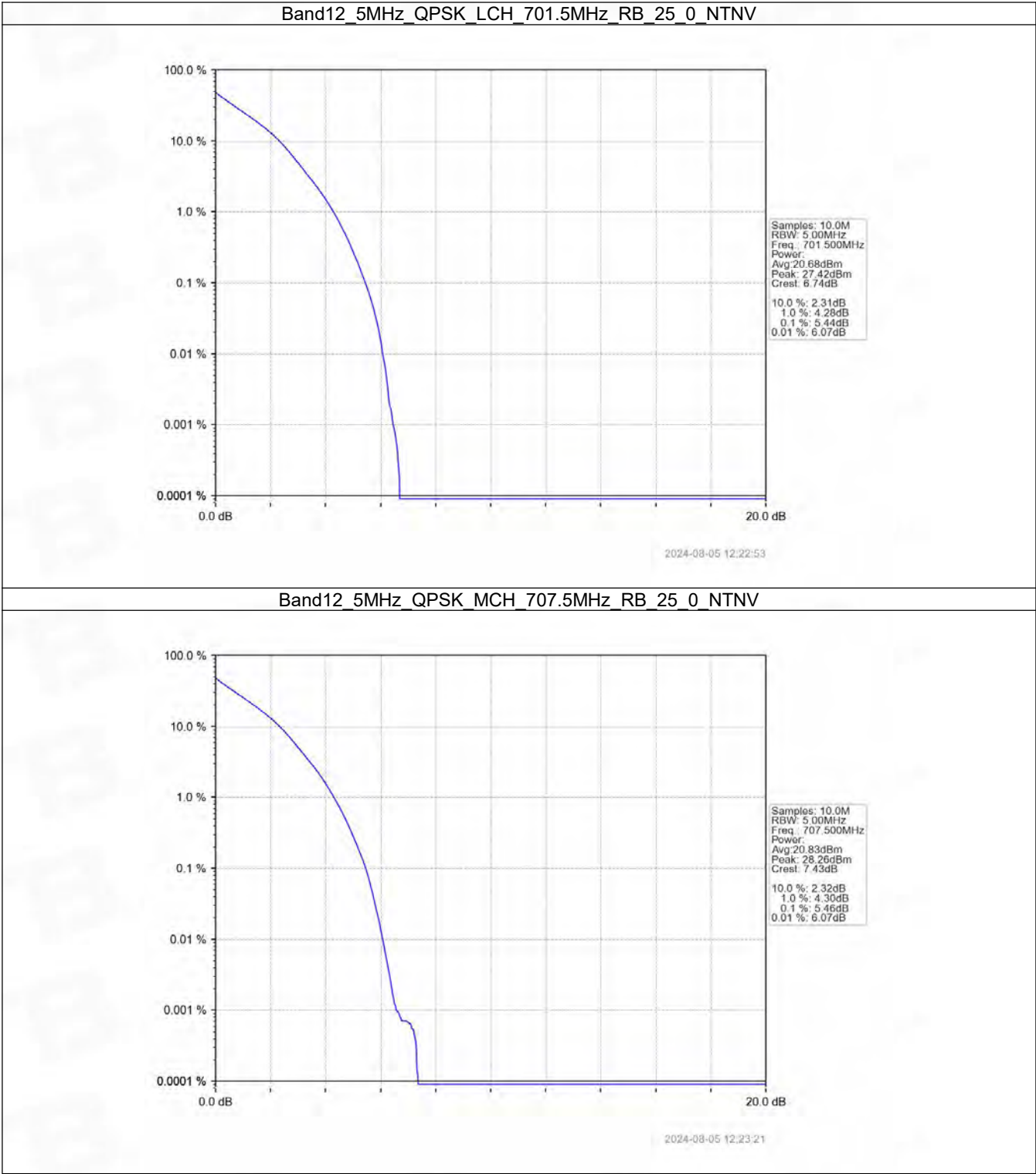
2024-08-05 12:21:46

Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

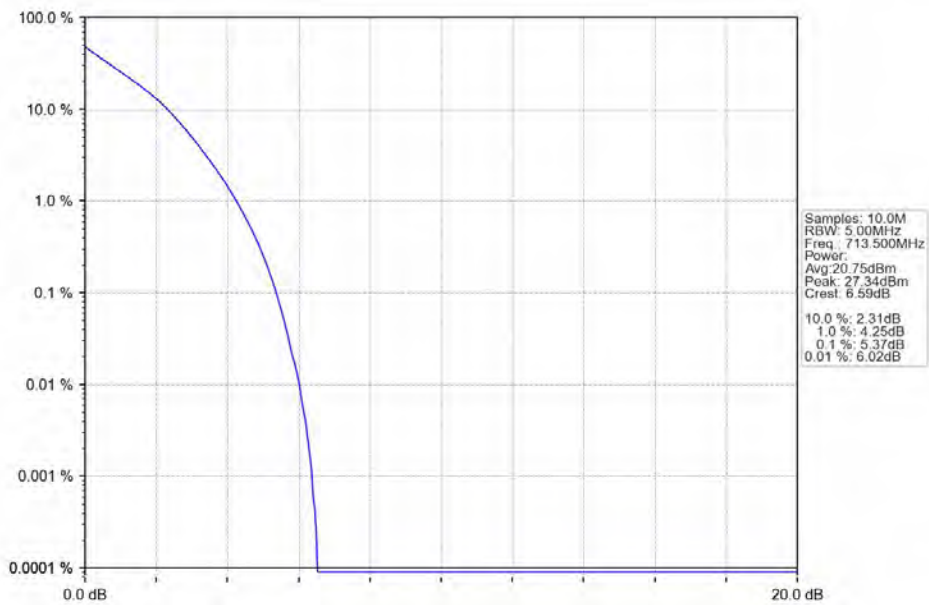


2024-08-05 12:22:14

5.2.3 B12_5MHz

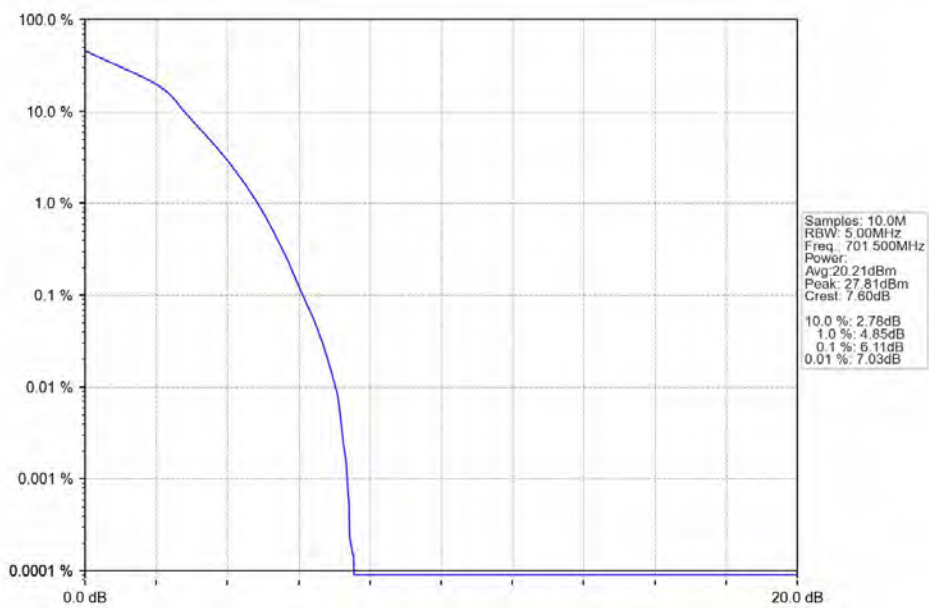


Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



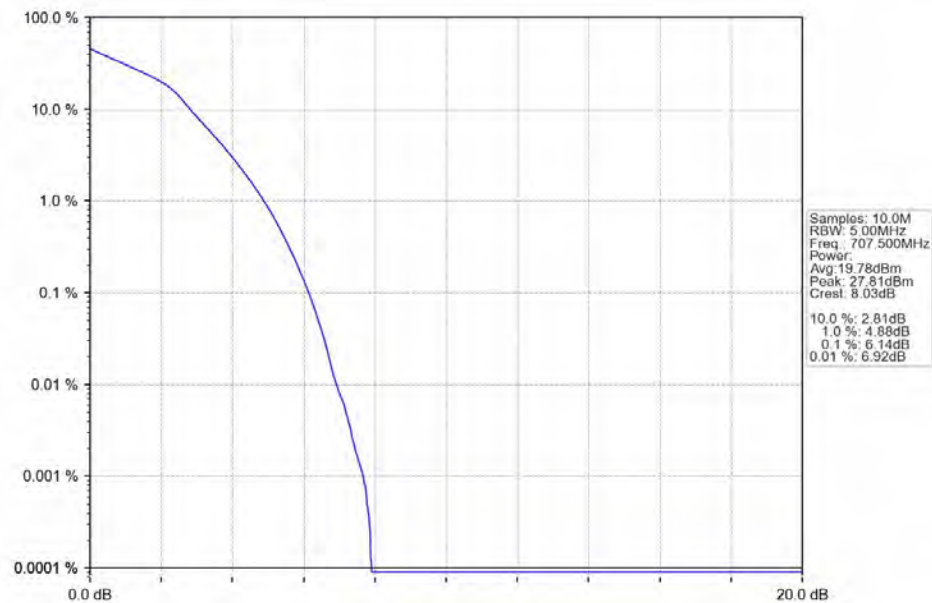
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Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



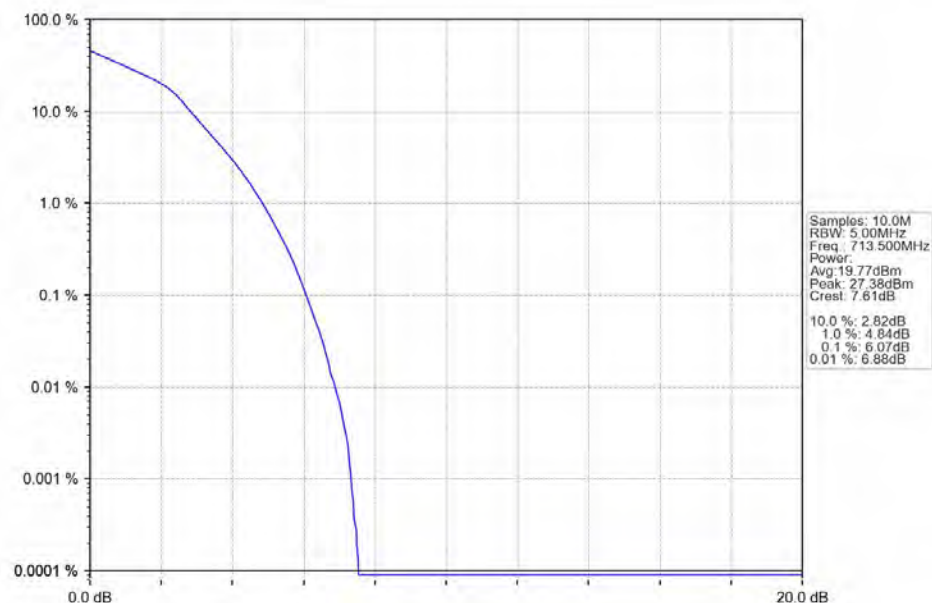
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Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



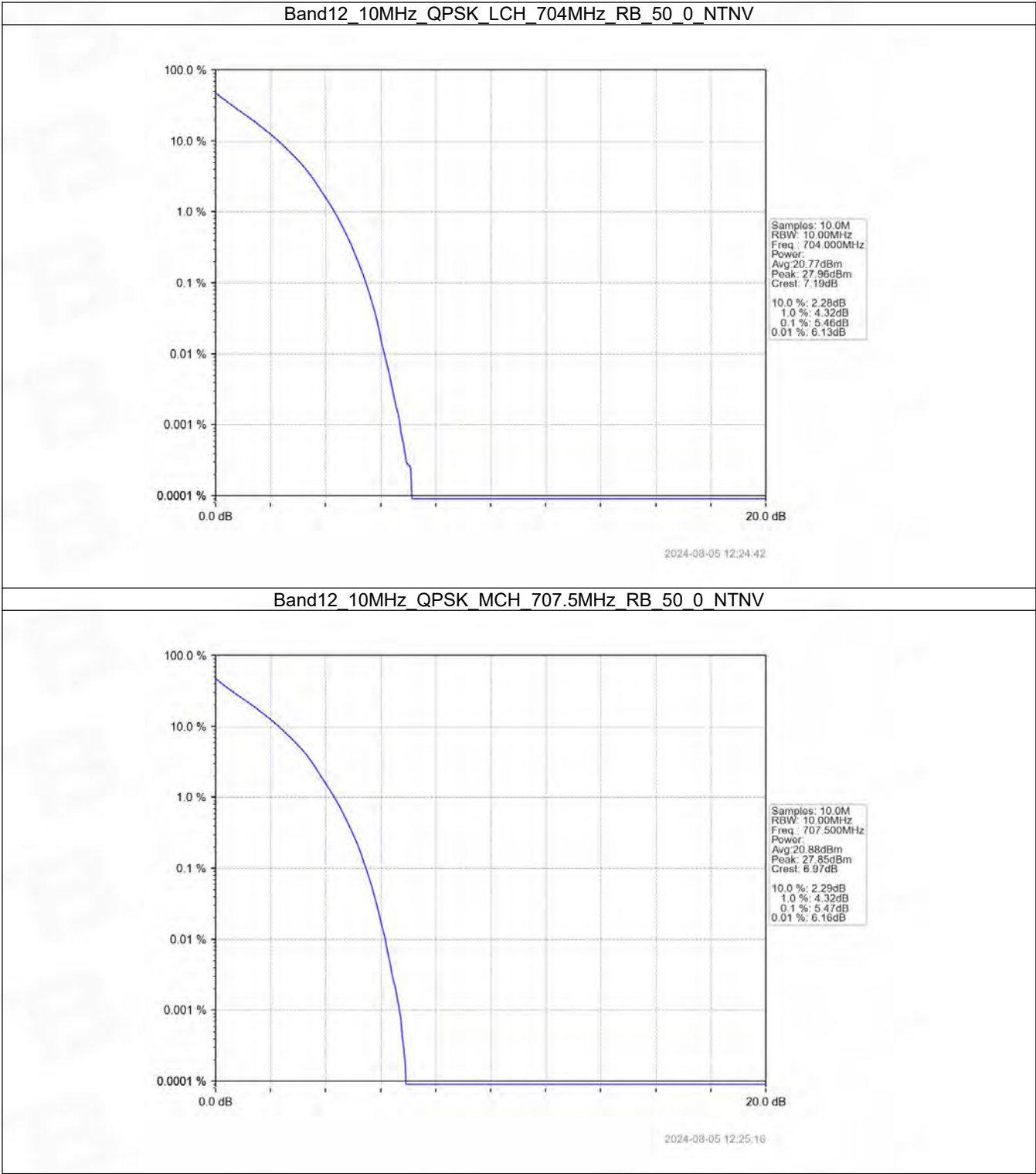
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Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

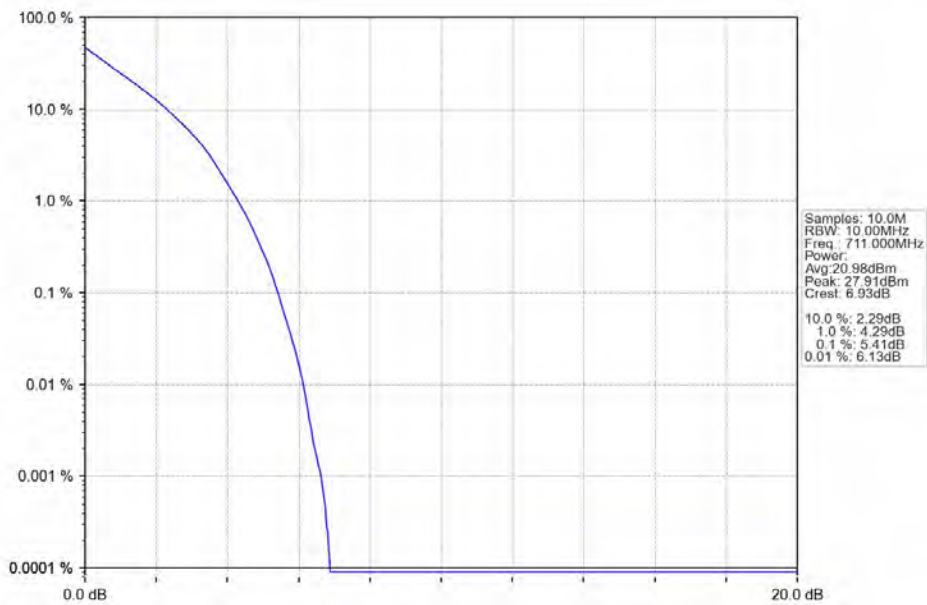


2024-08-05 12:24:00

5.2.4 B12_10MHz

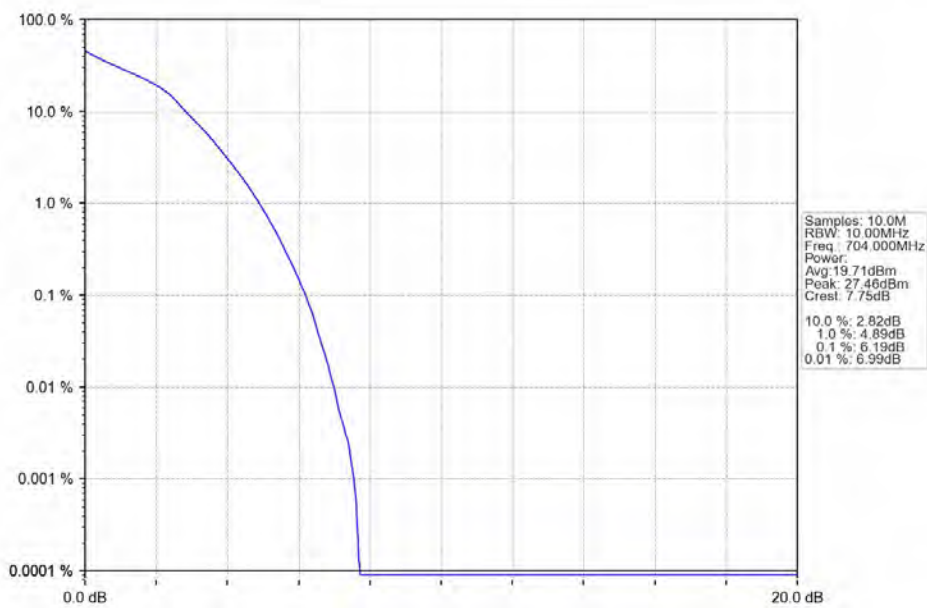


Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



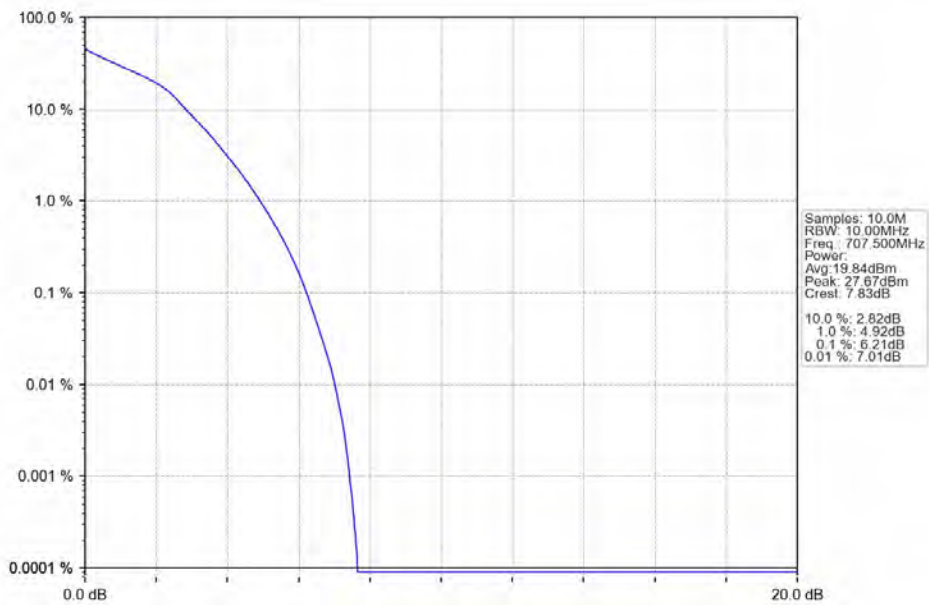
2024-08-05 12:25:50

Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



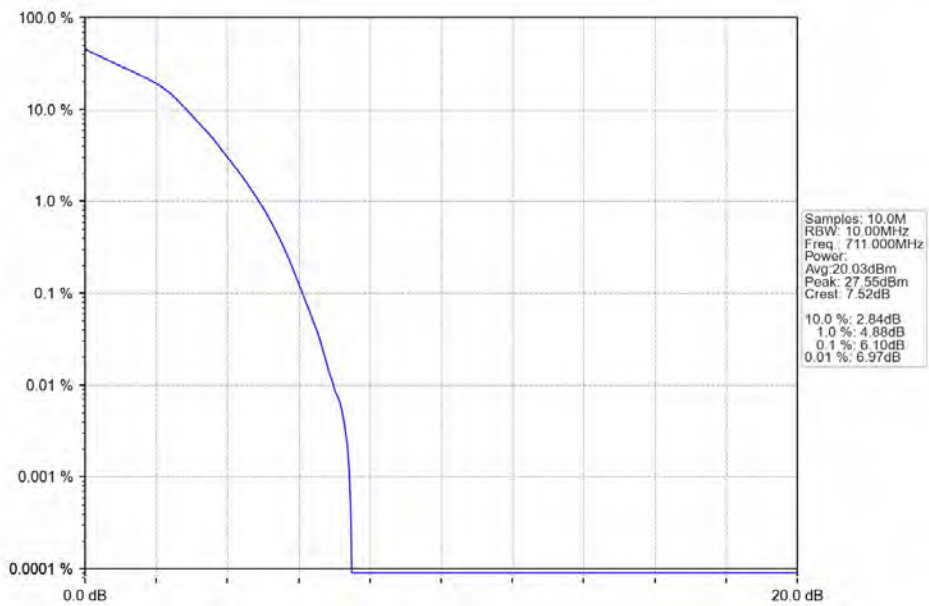
2024-08-05 12:24:58

Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



2024-08-05 12:25:32

Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



2024-08-05 12:26:05

6. Spurious Emission

6.1 Test Result

6.1.1 B12_1.4MHz

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
		1	0	Refer To Test Graph		Pass
	715.3	1	5	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
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	715.3	1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

6.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
		1	14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	714.5	1	14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

6.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	713.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	701.5	1	0	Refer To Test Graph		Pass

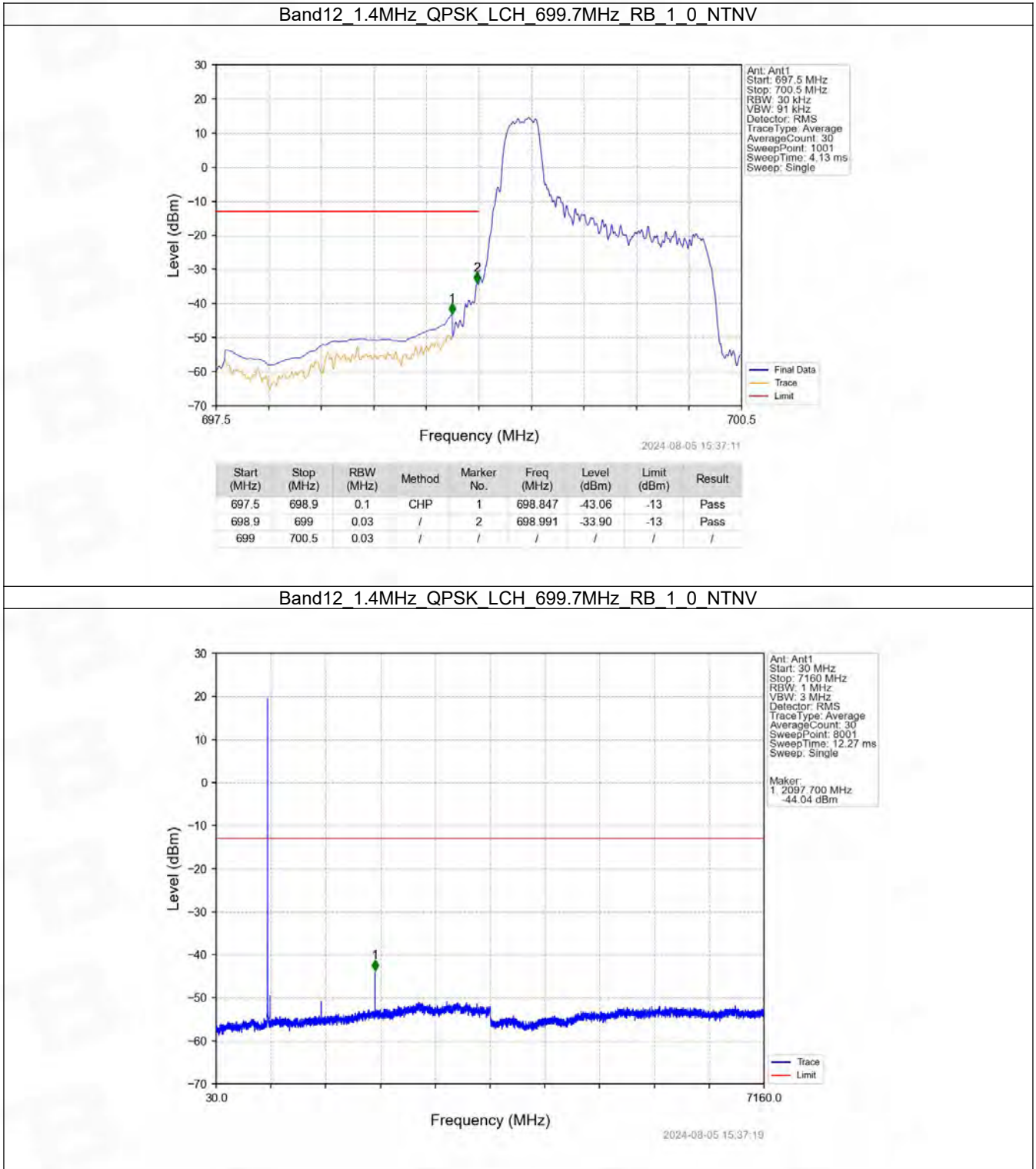
	707.5	25	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
	713.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass

6.1.4 B12_10MHz

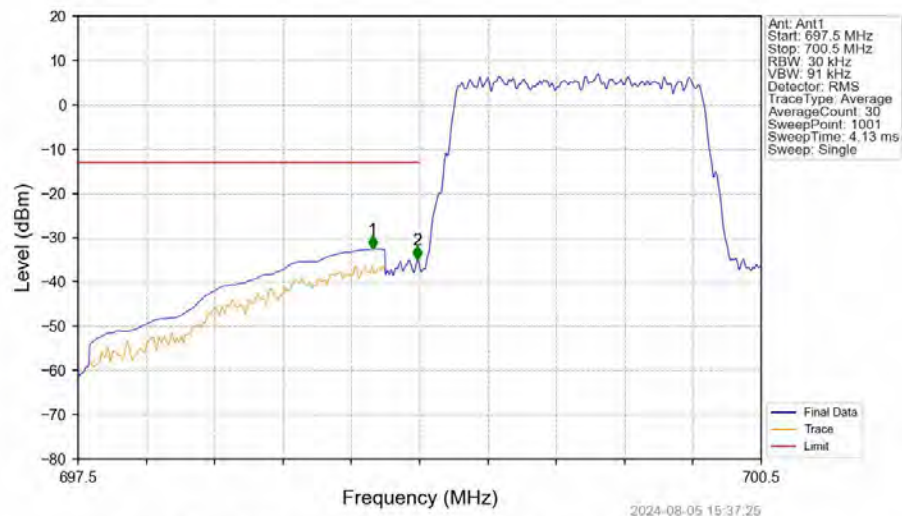
Band: 12 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	707.5	1	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

6.2 Test Graph

6.2.1 B12_1.4MHz

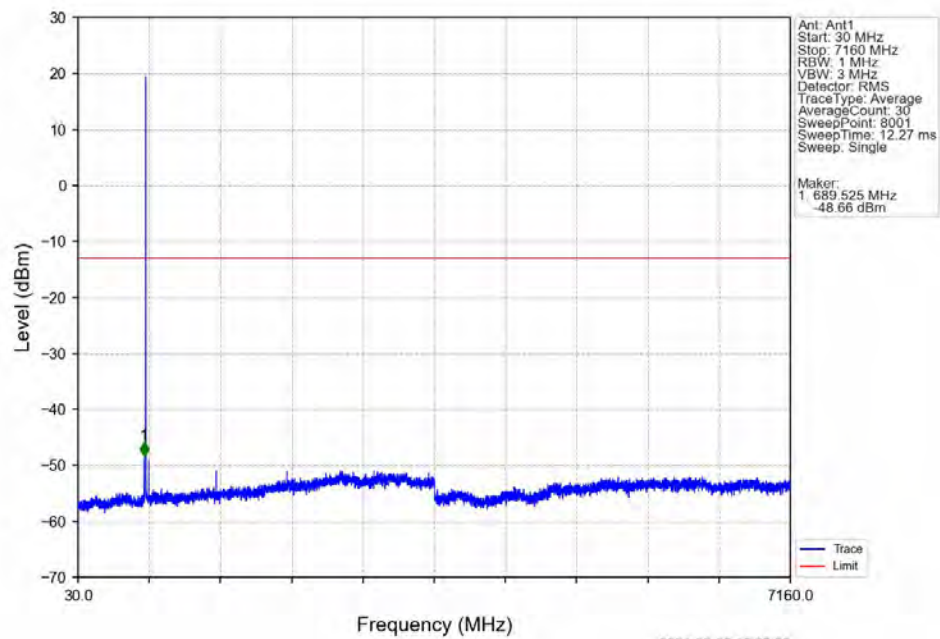


Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV

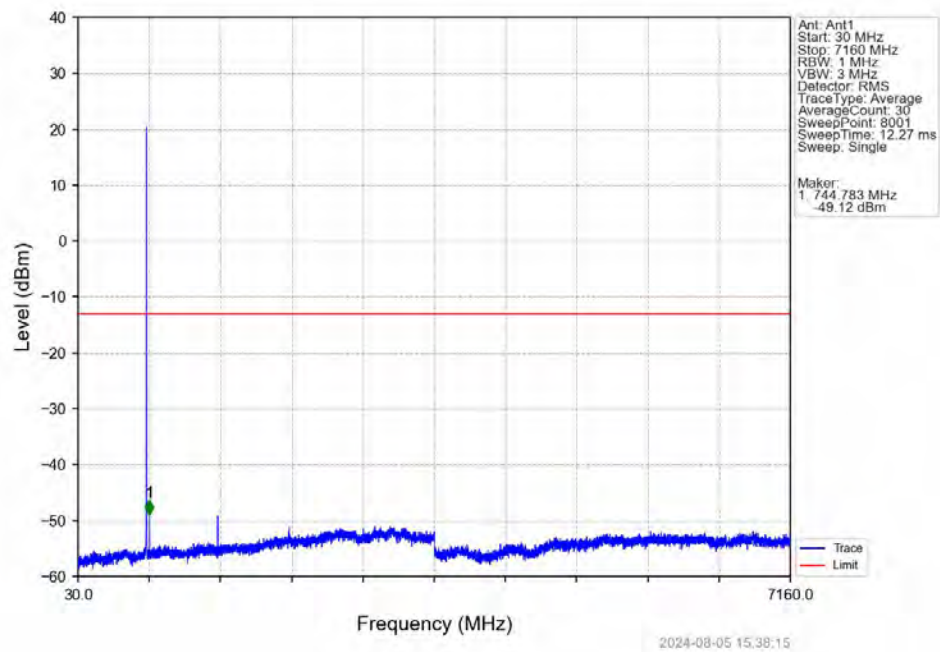


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.793	-32.50	-13	Pass
698.9	699	0.03	/	2	698.991	-35.04	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

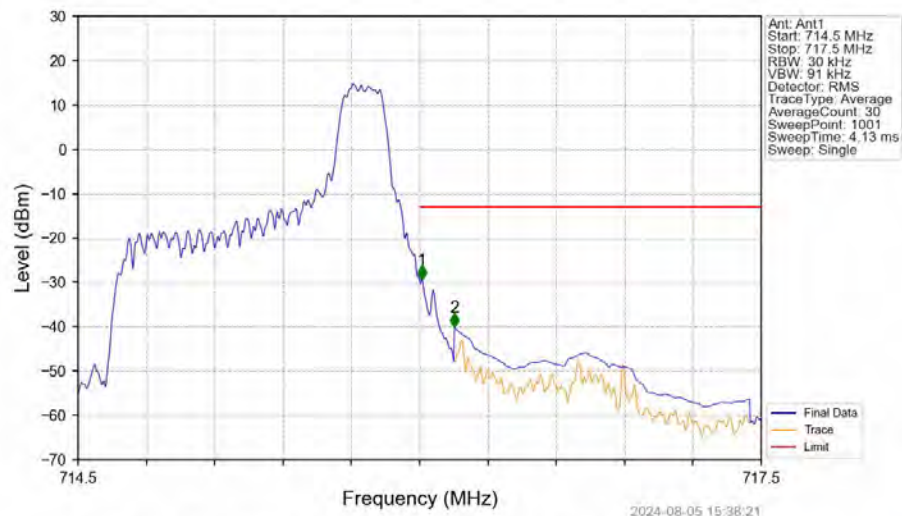
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV

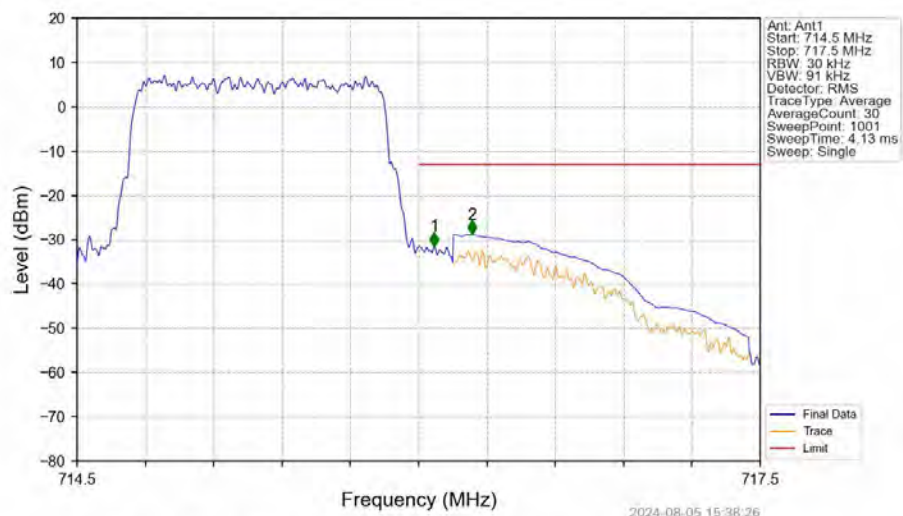


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



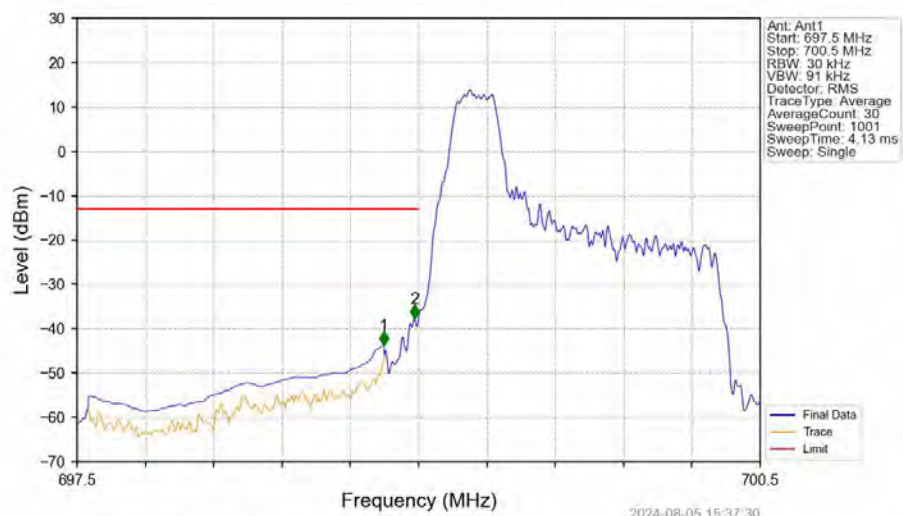
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.009	-29.36	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-40.14	-13	Pass

Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



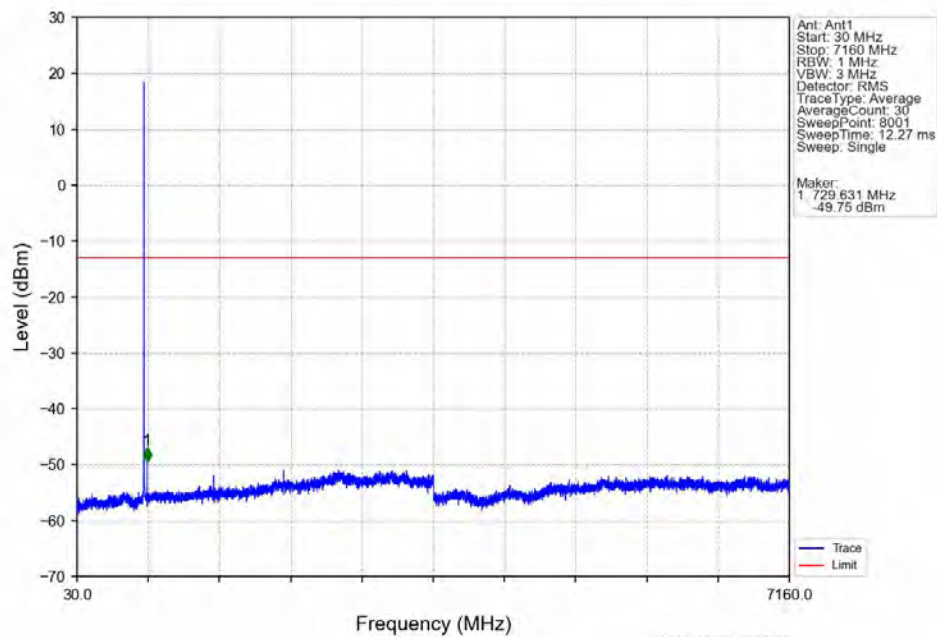
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.069	-31.40	-13	Pass
716.1	717.5	0.1	CHP	2	716.234	-28.83	-13	Pass

Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



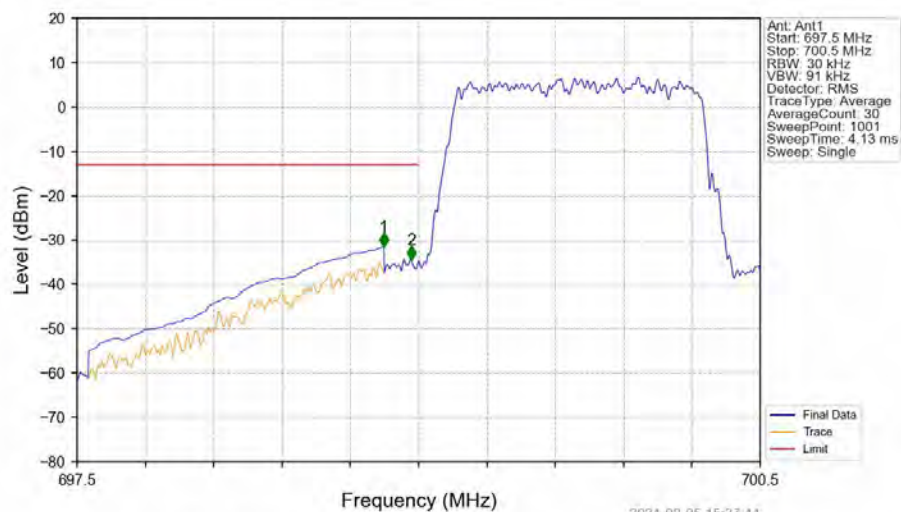
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-43.65	-13	Pass
698.9	699	0.03	/	2	698.982	-37.73	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



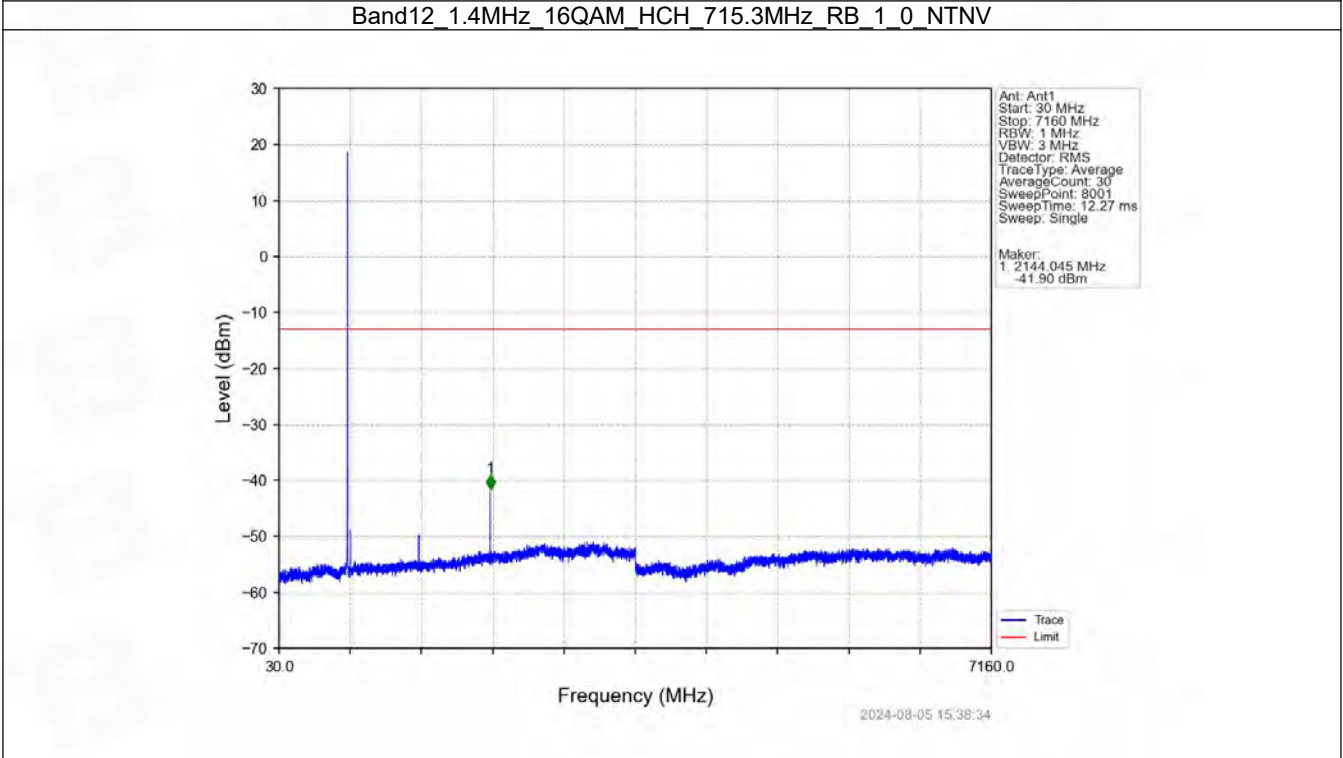
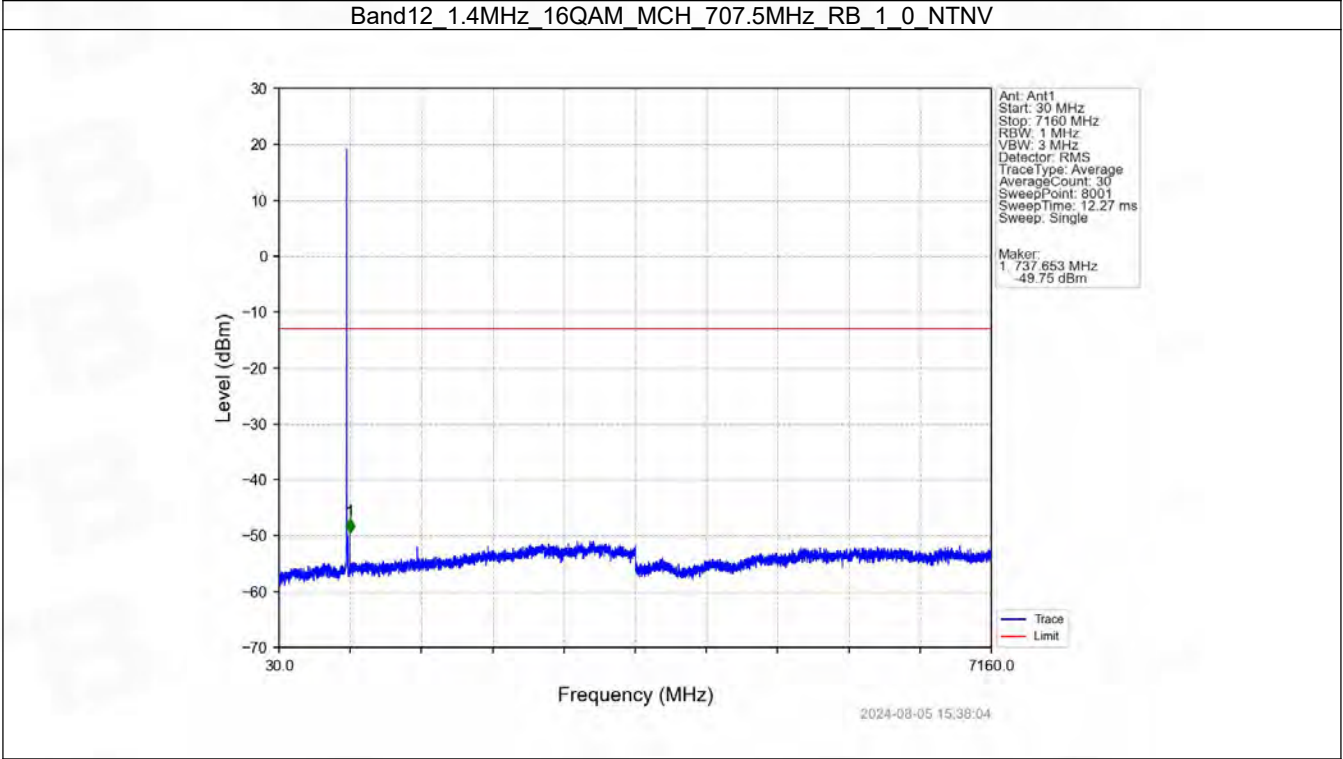
2024-08-05 15:37:38

Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

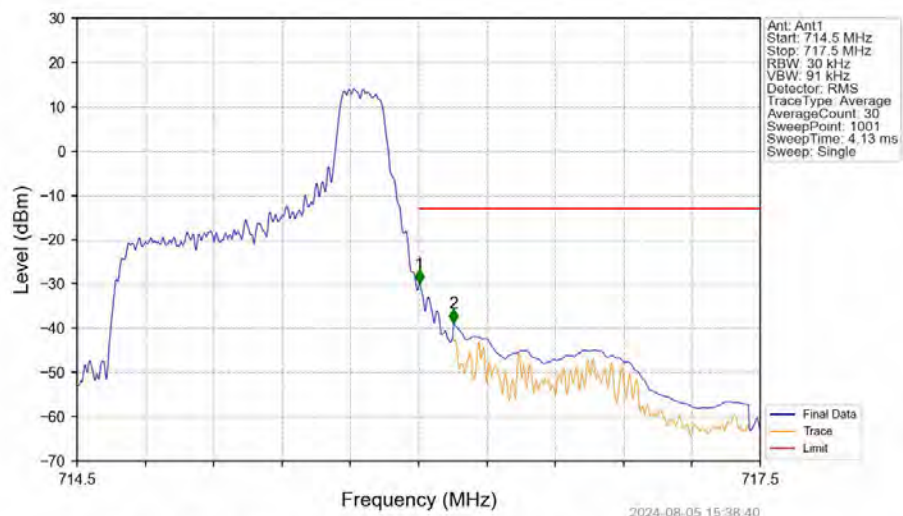


2024-08-05 15:37:44

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-31.41	-13	Pass
698.9	699	0.03	/	2	698.967	-34.34	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

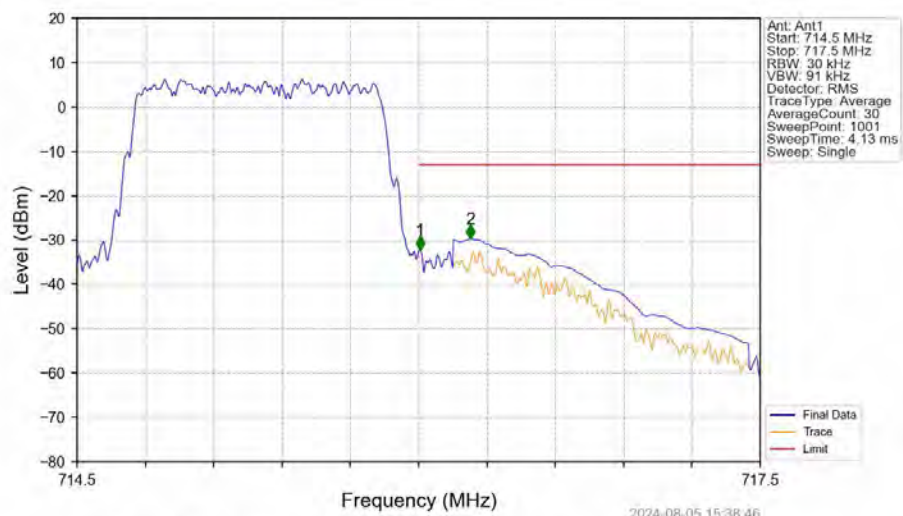


Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_5_NTNV



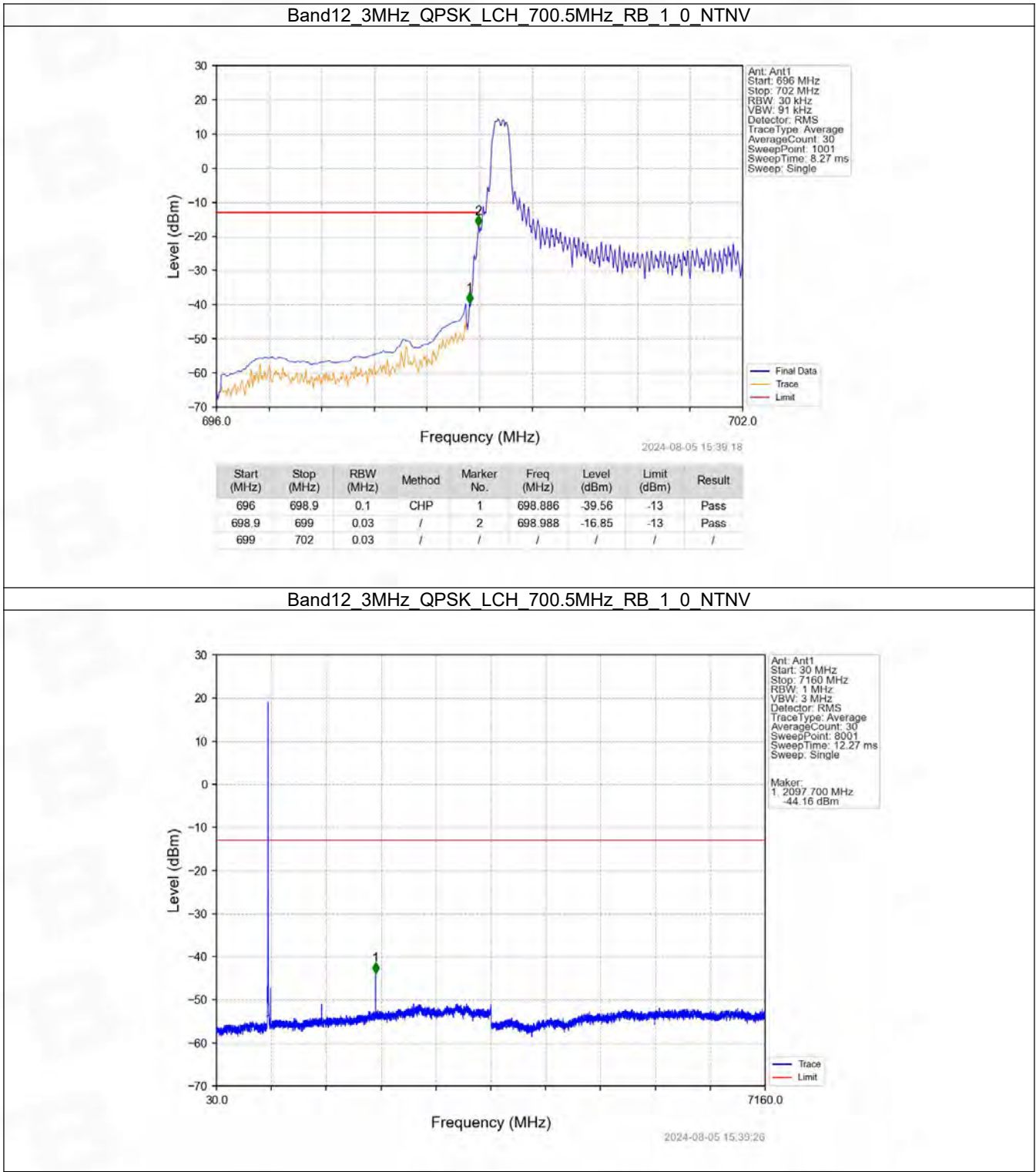
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.003	-29.91	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-38.82	-13	Pass

Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV

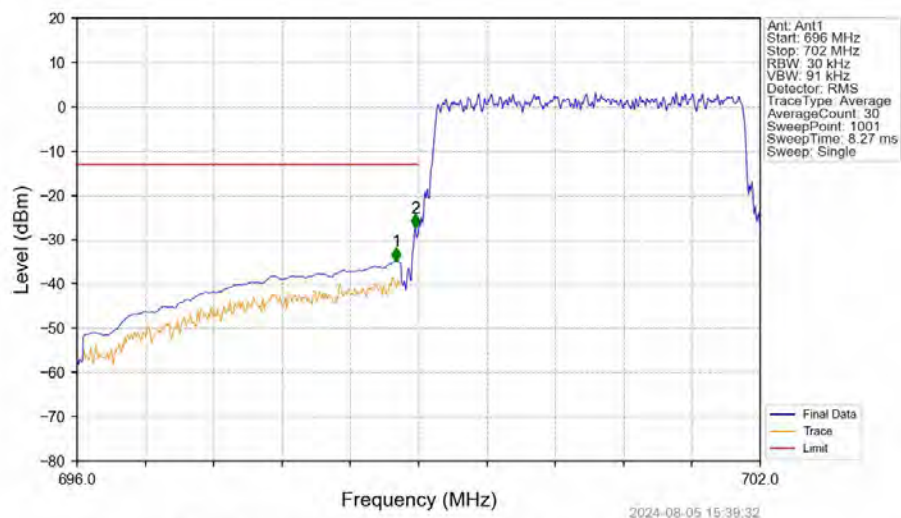


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-32.15	-13	Pass
716.1	717.5	0.1	CHP	2	716.228	-29.74	-13	Pass

6.2.2 B12_3MHz

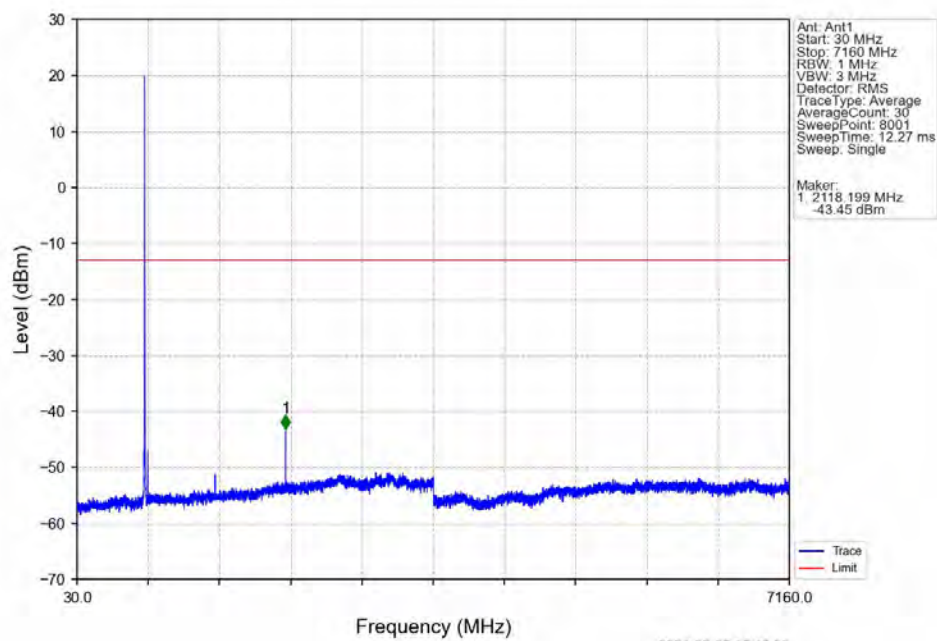


Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV

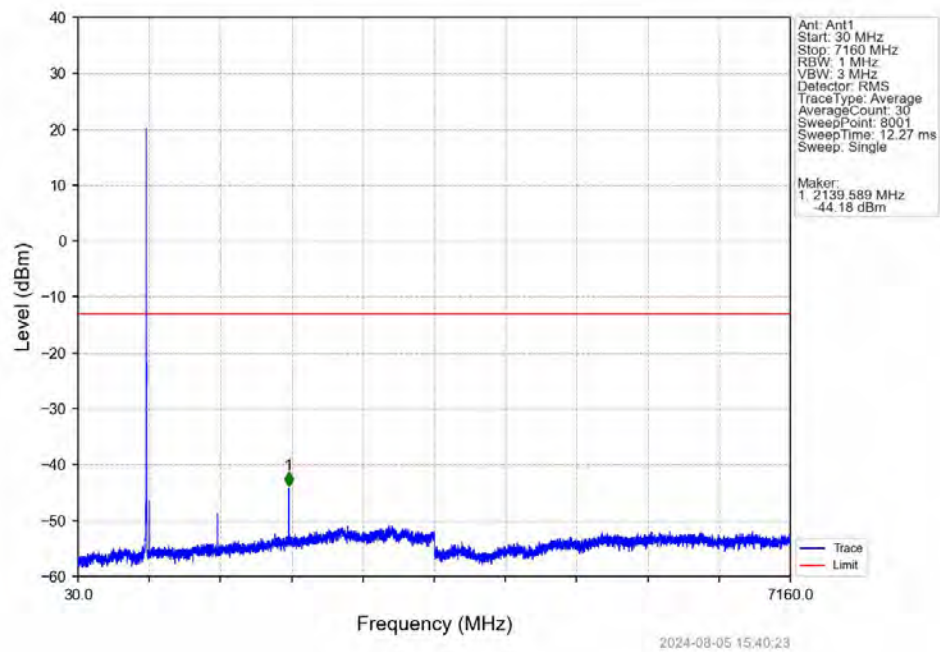


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.802	-34.86	-13	Pass
698.9	699	0.03	/	2	698.970	-27.29	-13	Pass
699	702	0.03	/	/	/	/	/	/

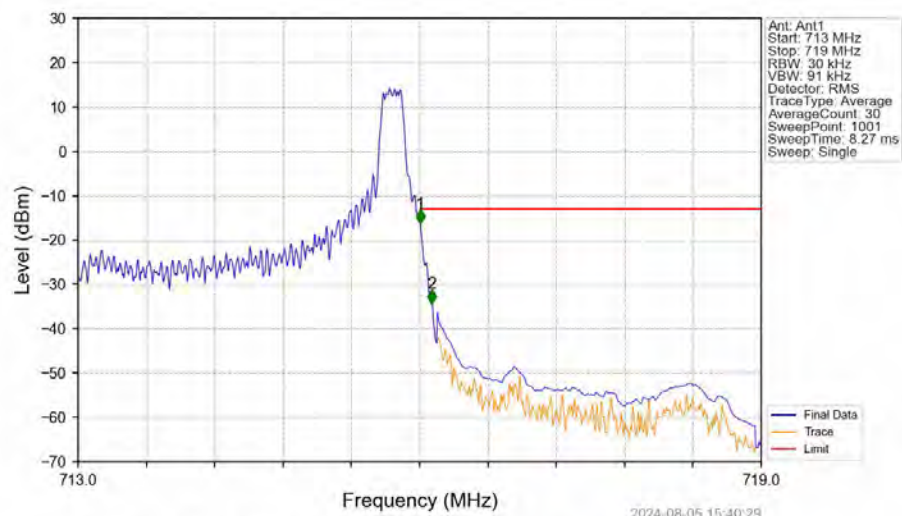
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV

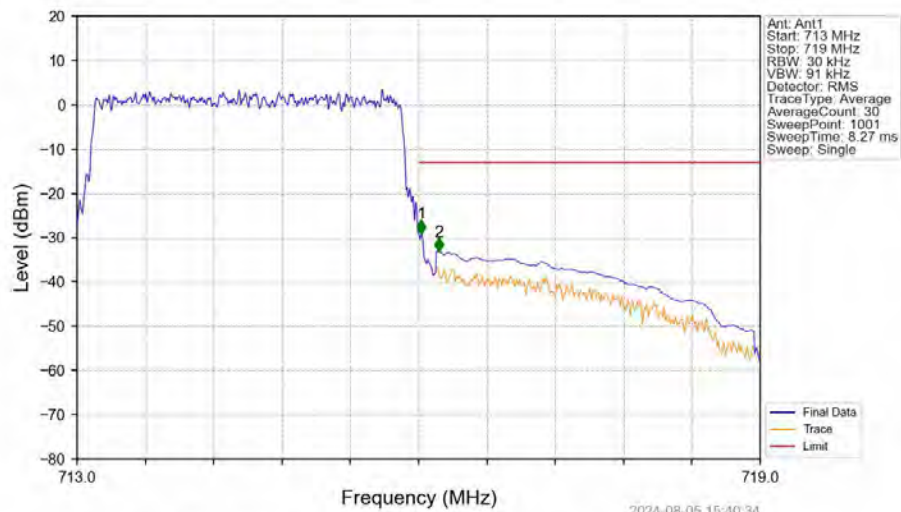


Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



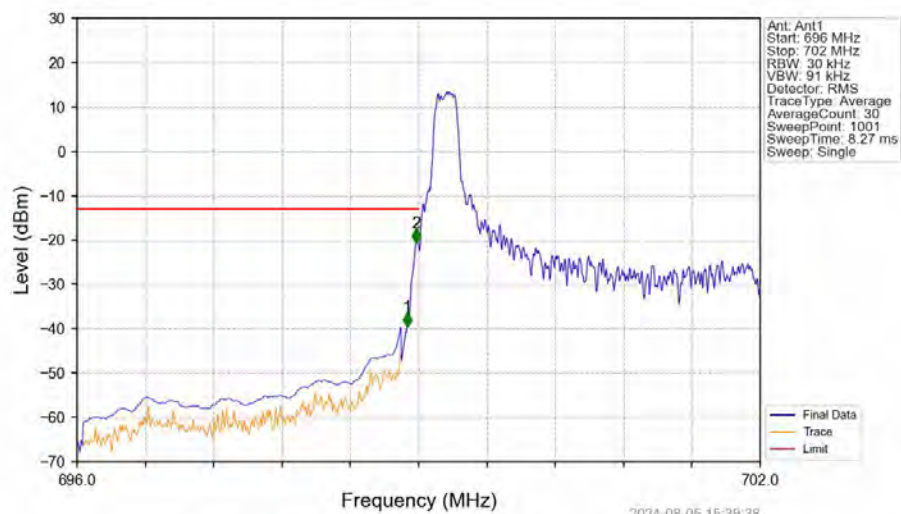
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-16.14	-13	Pass
716.1	719	0.1	CHP	2	716.108	-34.23	-13	Pass

Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



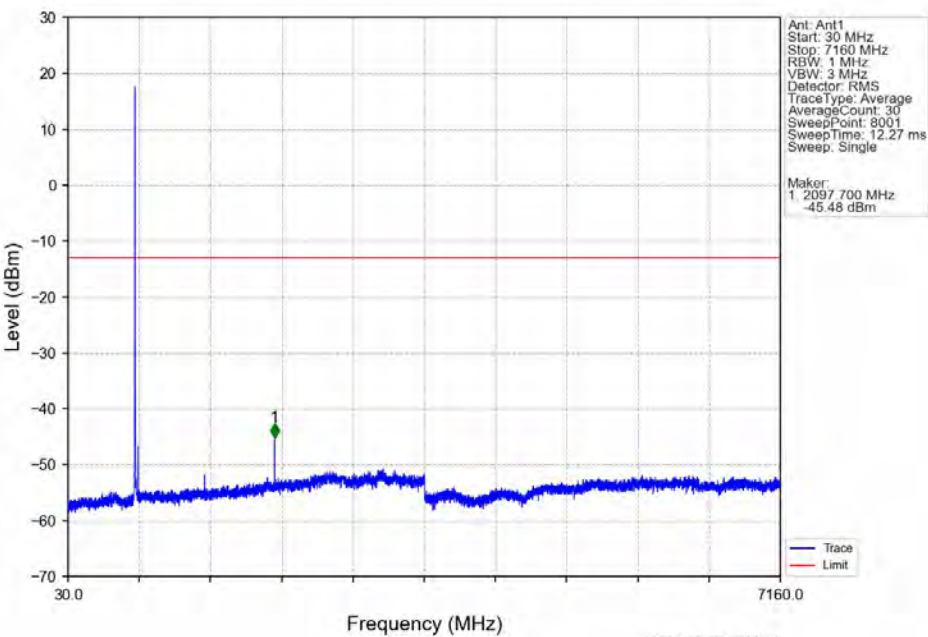
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.024	-29.03	-13	Pass
716.1	719	0.1	CHP	2	716.180	-33.12	-13	Pass

Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV

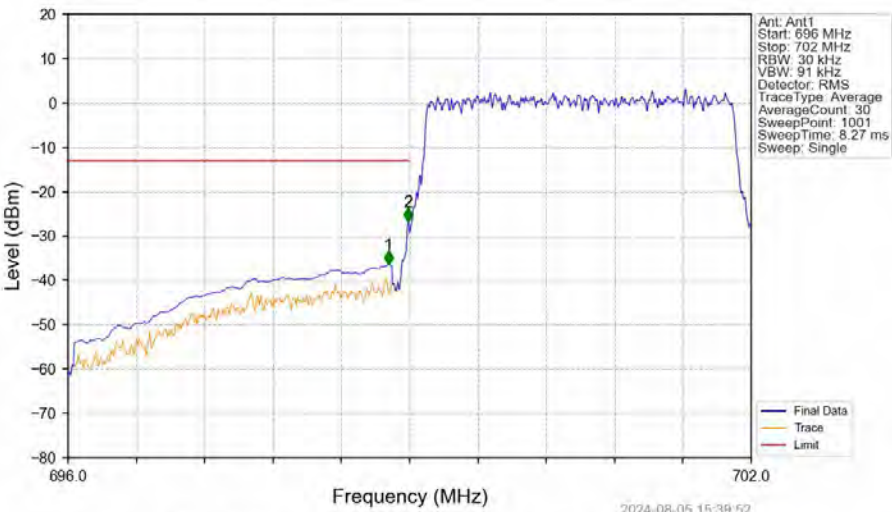


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.898	-39.52	-13	Pass
698.9	699	0.03	/	2	698.982	-20.51	-13	Pass
699	702	0.03	/	/	/	/	/	/

Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV

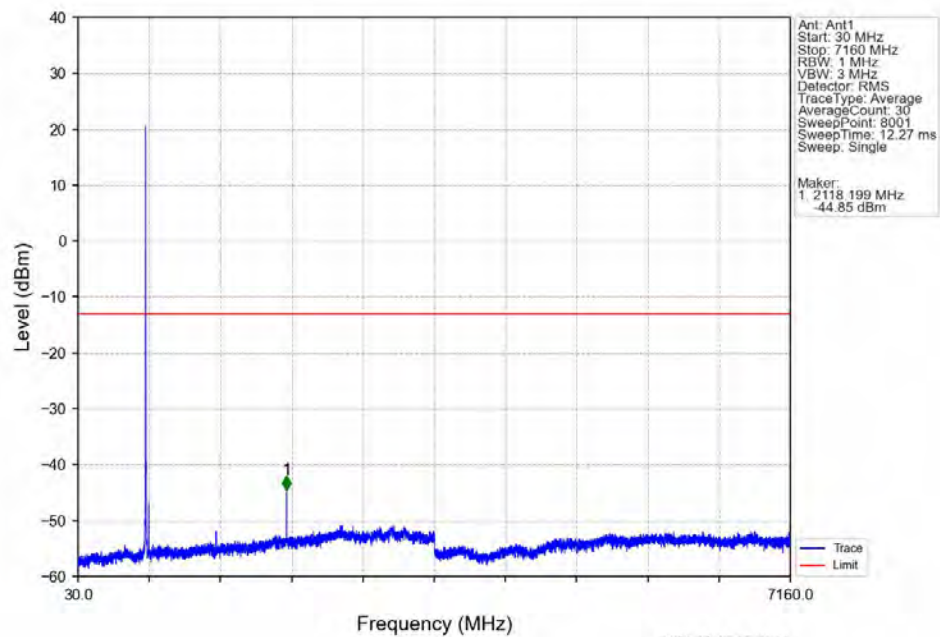


Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

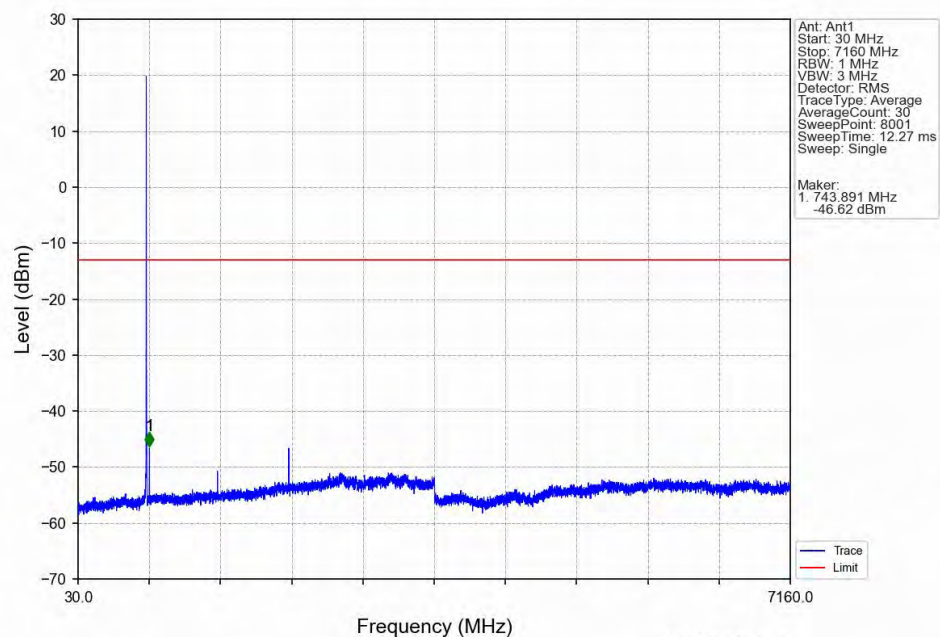


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.814	-36.44	-13	Pass
698.9	699	0.03	/	2	698.988	-26.72	-13	Pass
699	702	0.03	/	/	/	/	/	/

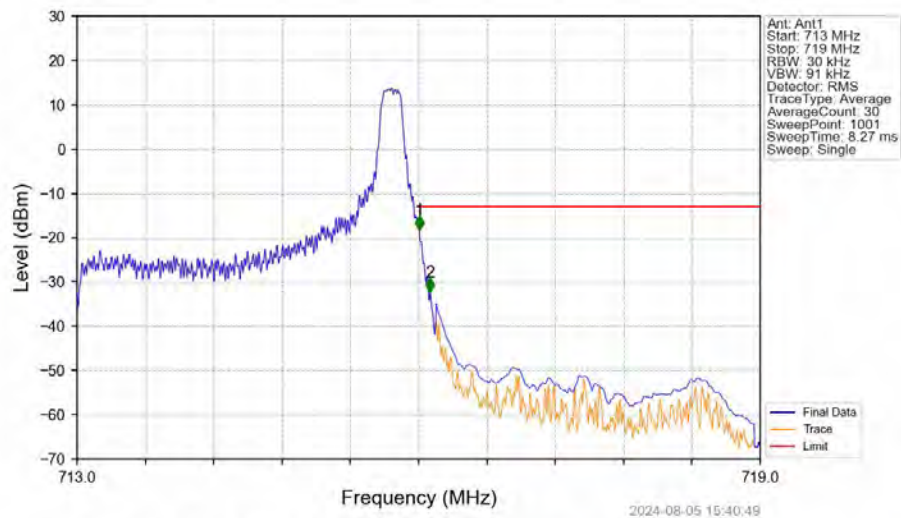
Band12_3MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV

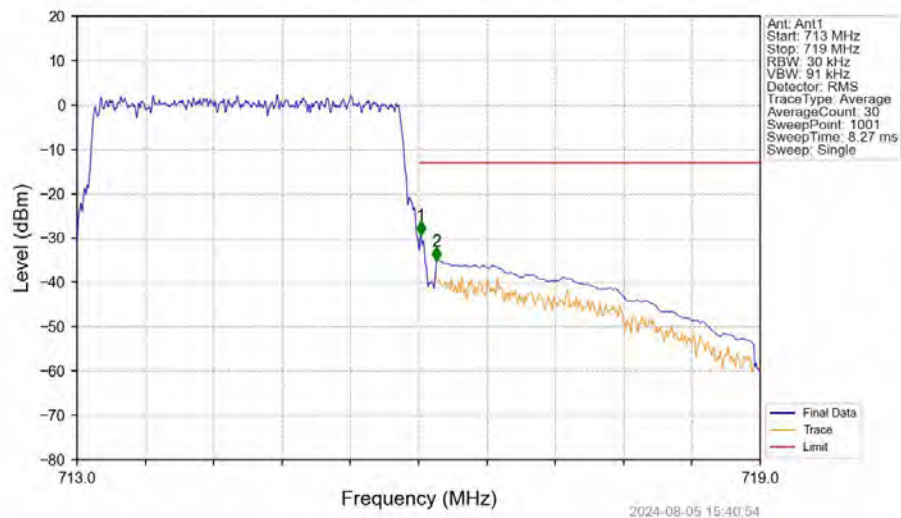


Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_14_NTNV



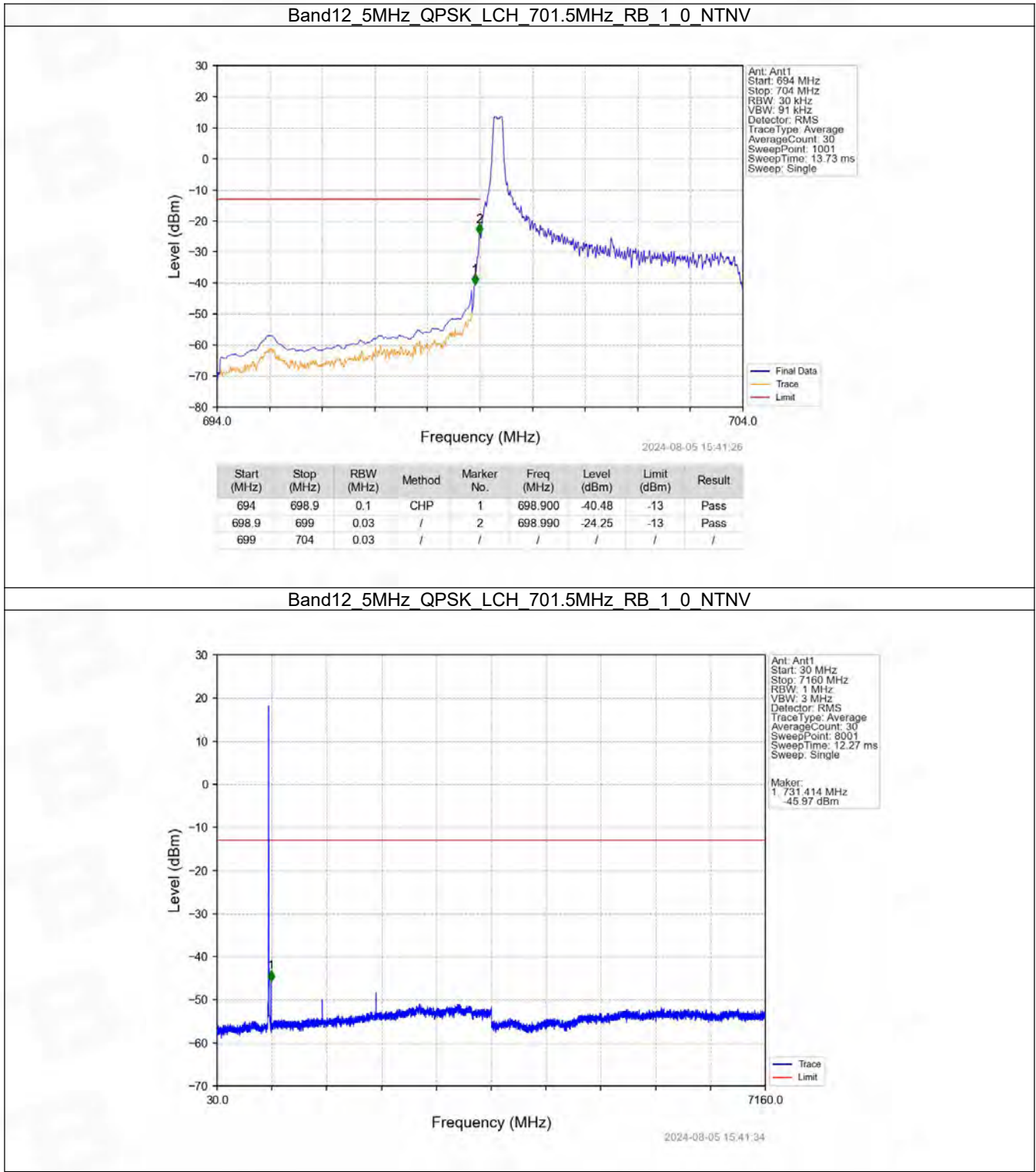
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-18.29	-13	Pass
716.1	719	0.1	CHP	2	716.102	-32.26	-13	Pass

Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

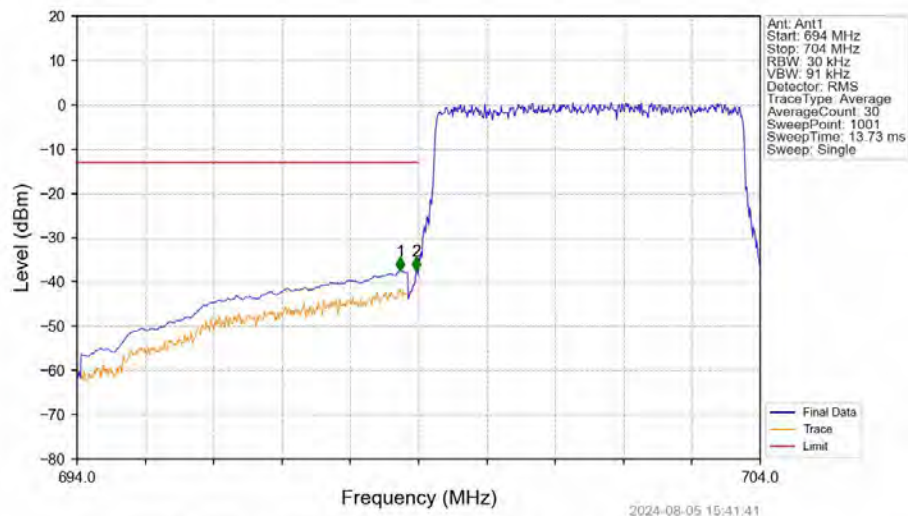


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.018	-29.24	-13	Pass
716.1	719	0.1	CHP	2	716.156	-35.06	-13	Pass

6.2.3 B12_5MHz

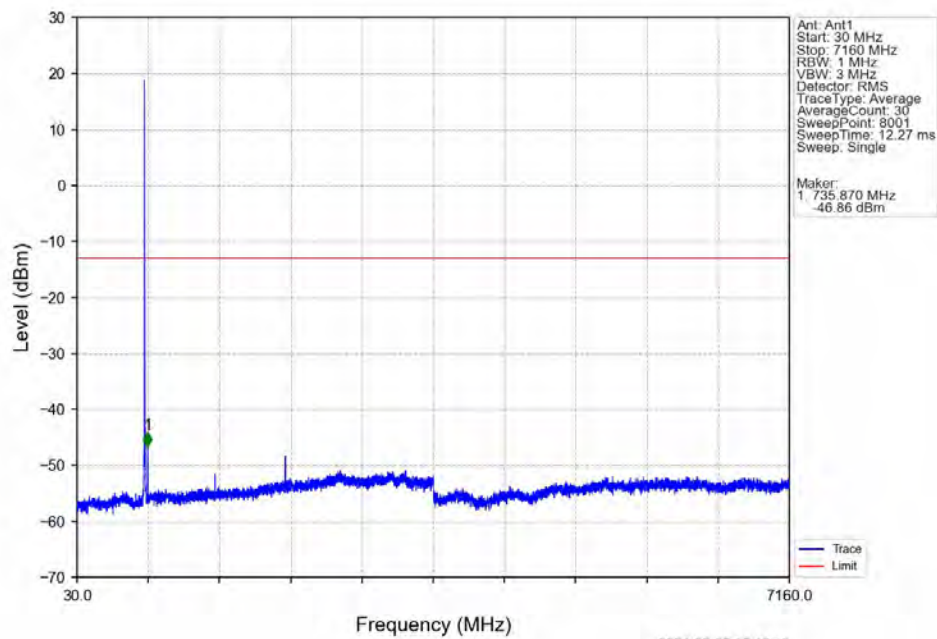


Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV

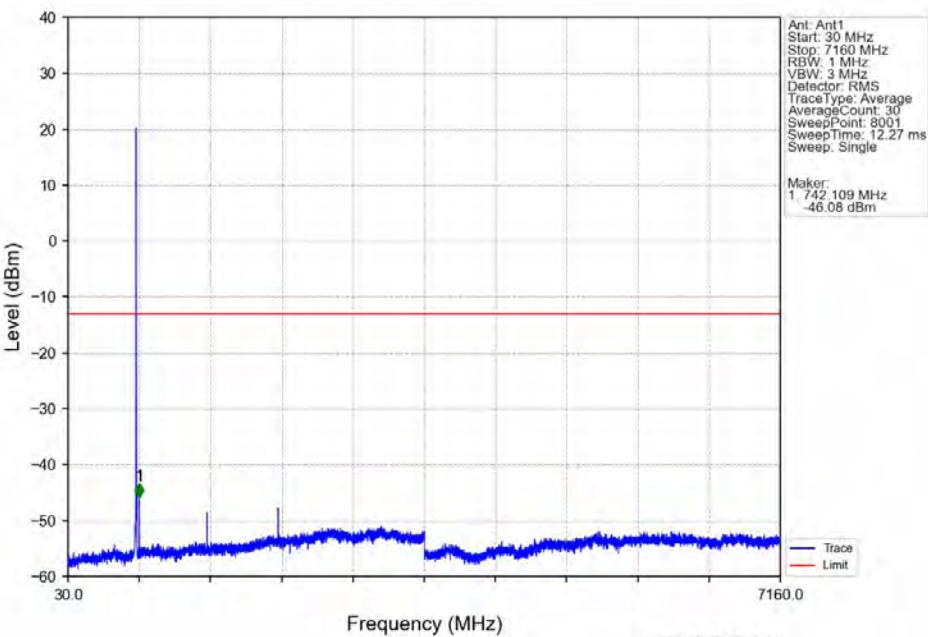


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.730	-37.42	-13	Pass
698.9	699	0.03	/	2	698.970	-37.48	-13	Pass
699	704	0.03	/	/	/	/	/	/

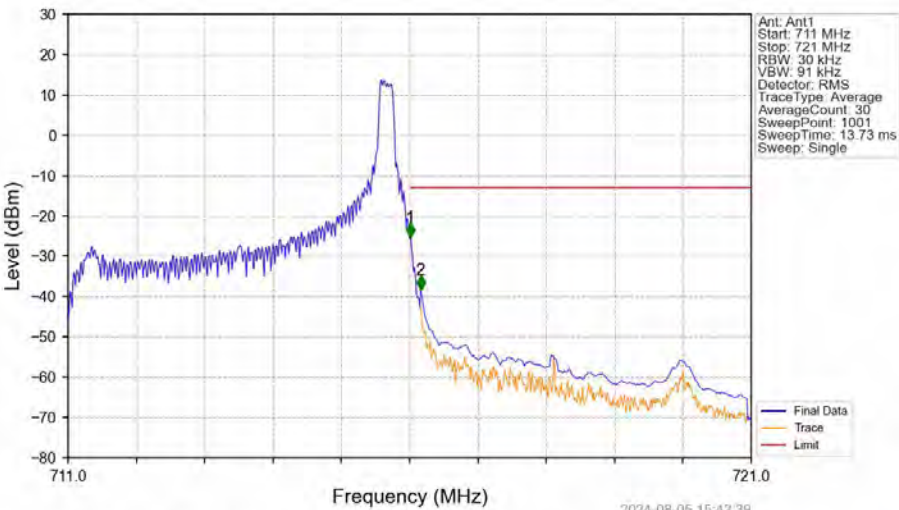
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

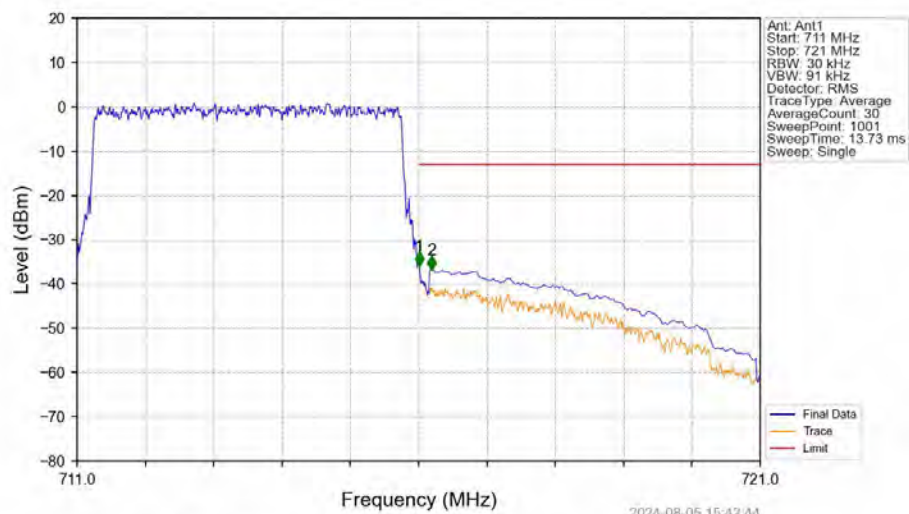


Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



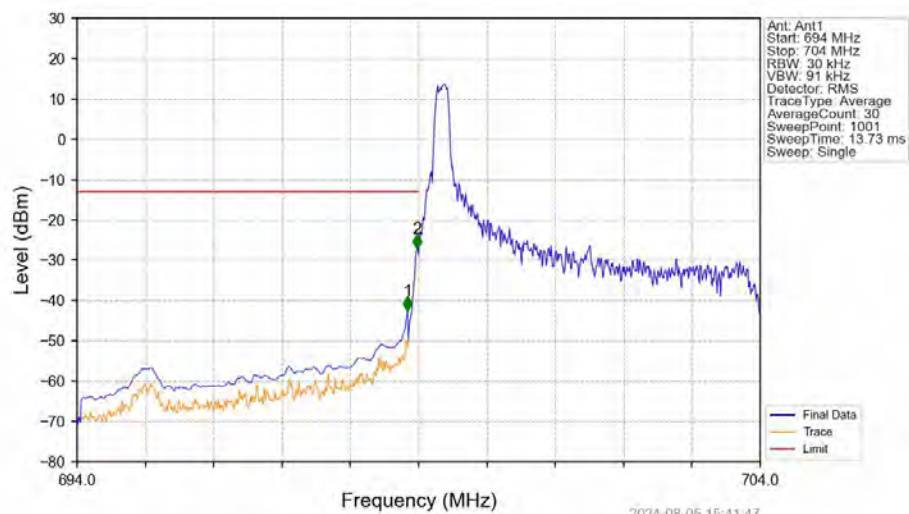
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-25.33	-13	Pass
716.1	721	0.1	CHP	2	716.160	-38.34	-13	Pass

Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



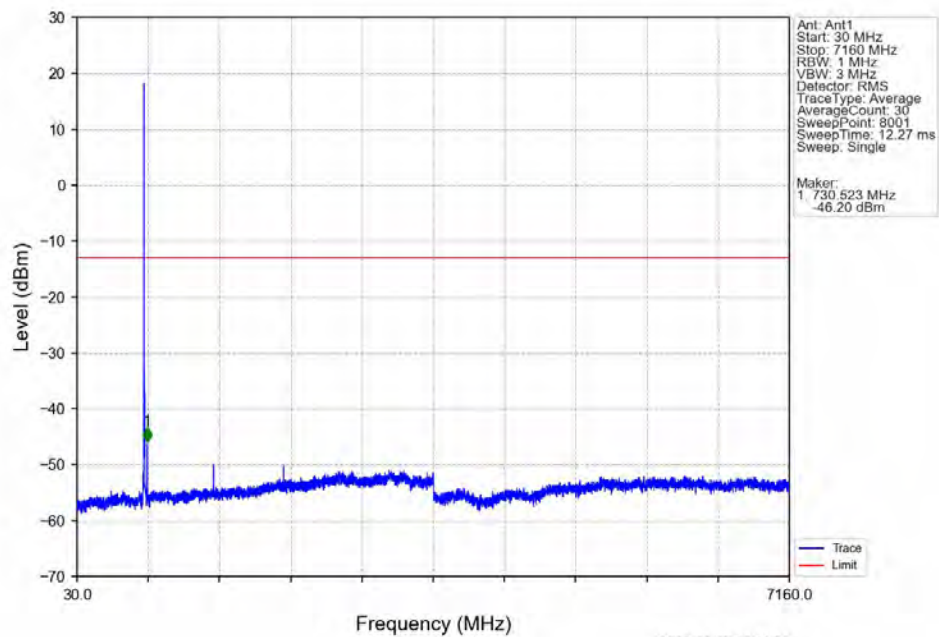
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-35.78	-13	Pass
716.1	721	0.1	CHP	2	716.190	-36.71	-13	Pass

Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV

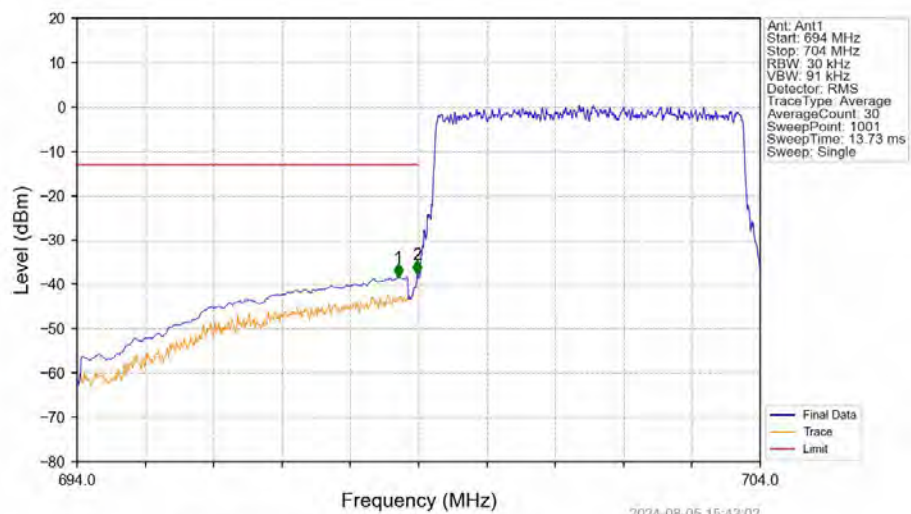


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-42.40	-13	Pass
698.9	699	0.03	/	2	698.980	-26.98	-13	Pass
699	704	0.03	/	/	/	/	/	/

Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV

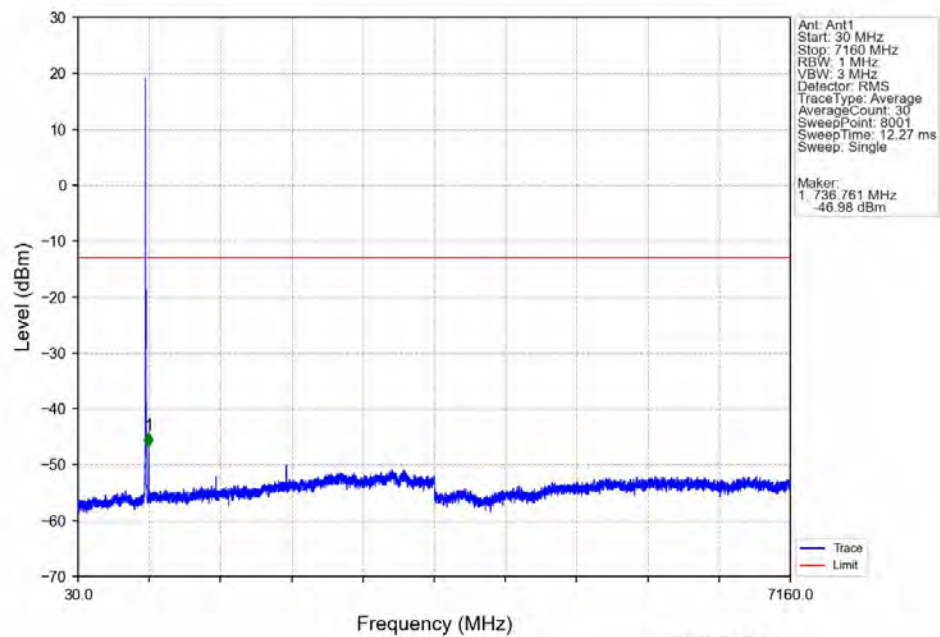


Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

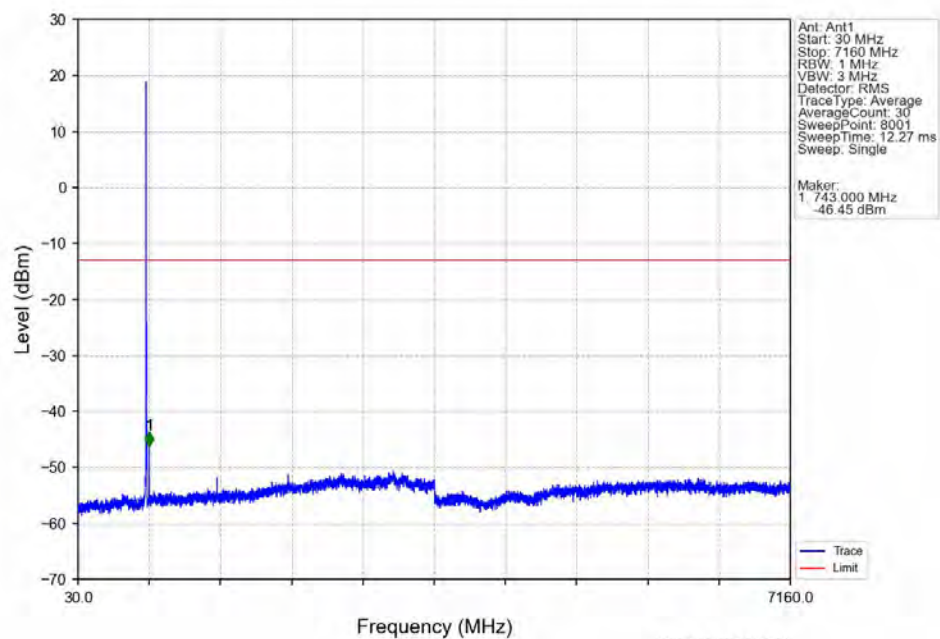


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.700	-38.39	-13	Pass
698.9	699	0.03	/	2	698.980	-37.65	-13	Pass
699	704	0.03	/	/	/	/	/	/

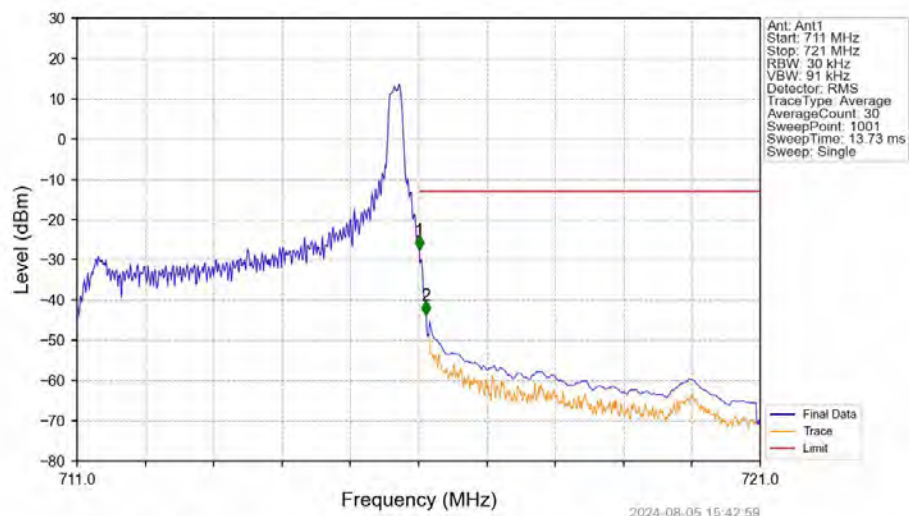
Band12_5MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

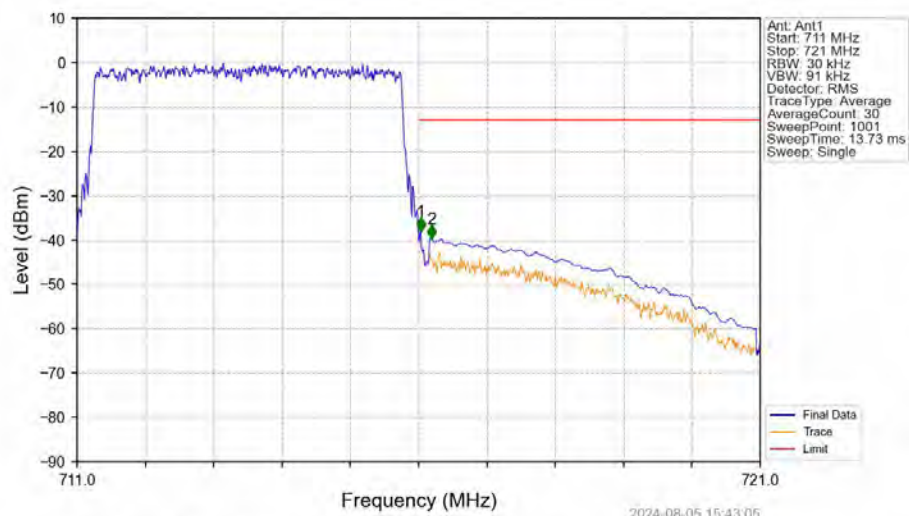


Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



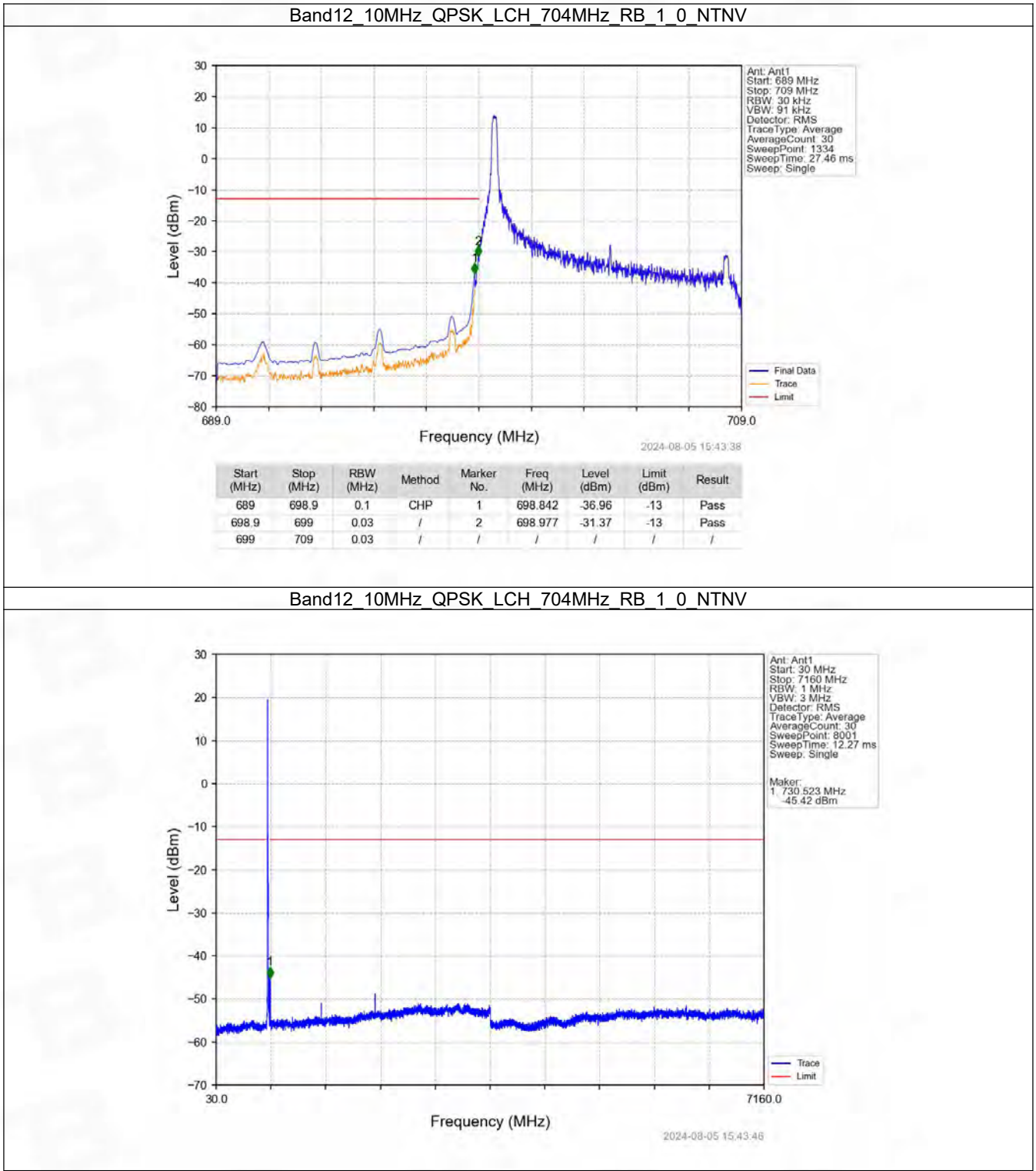
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-27.51	-13	Pass
716.1	721	0.1	CHP	2	716.110	-43.68	-13	Pass

Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

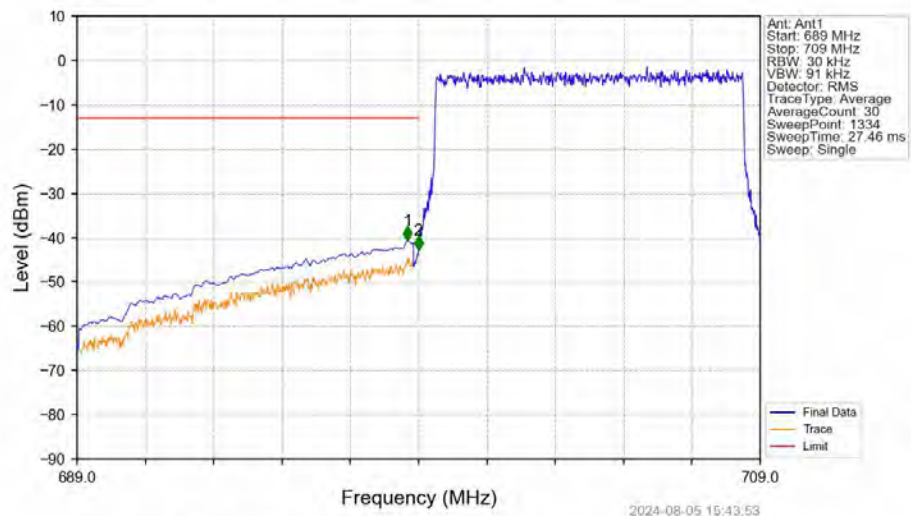


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.030	-37.96	-13	Pass
716.1	721	0.1	CHP	2	716.190	-39.62	-13	Pass

6.2.4 B12_10MHz

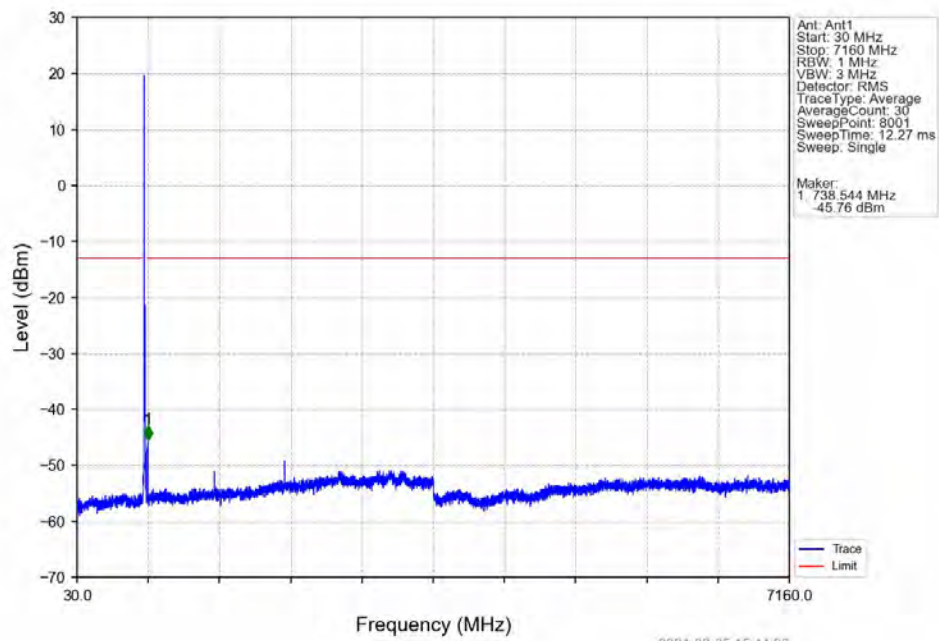


Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

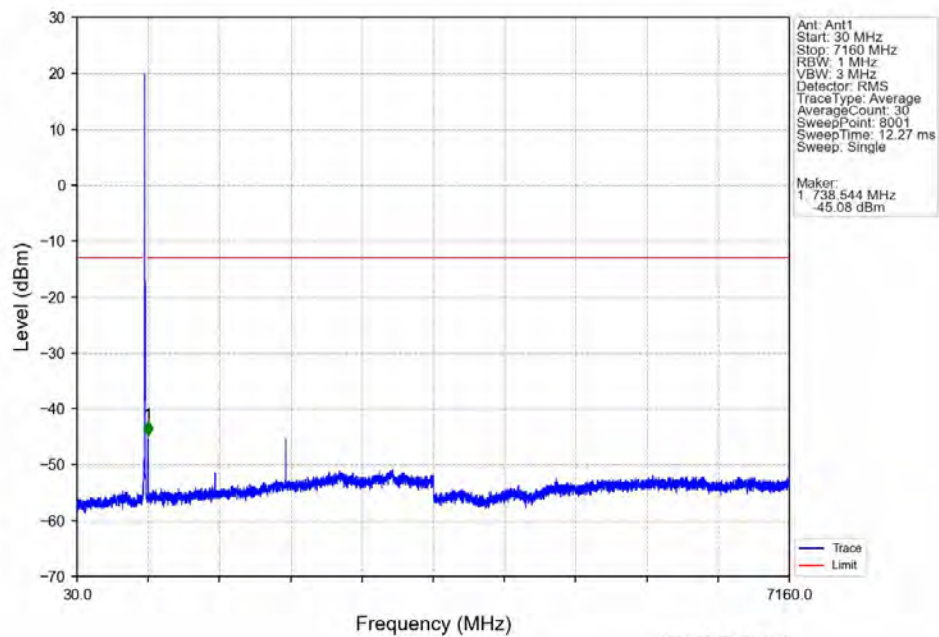


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.677	-40.56	-13	Pass
698.9	699	0.03	/	2	698.992	-42.78	-13	Pass
699	709	0.03	/	/	/	/	/	/

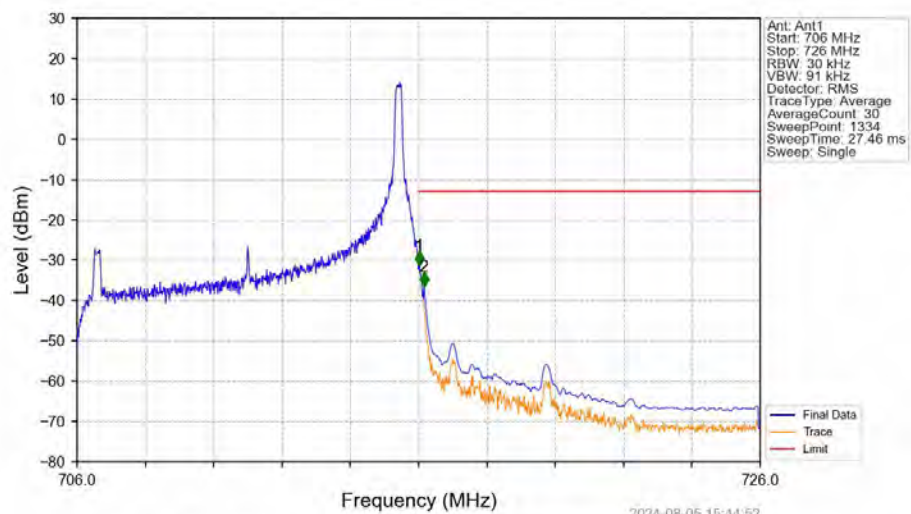
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

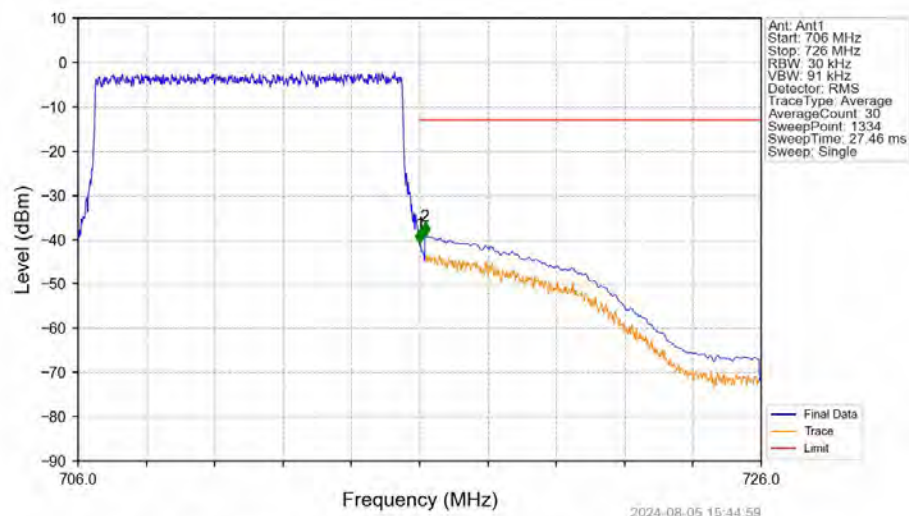


Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



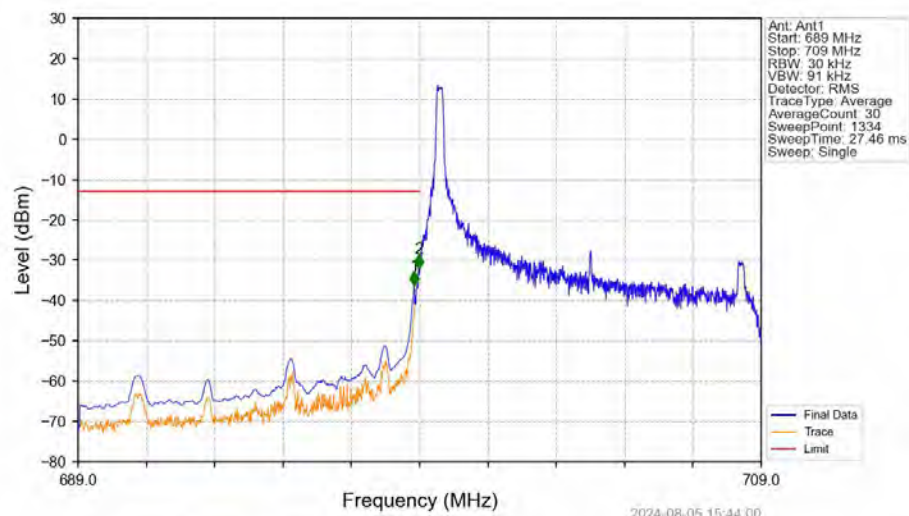
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.023	-31.29	-13	Pass
716.1	726	0.1	CHP	2	716.158	-36.49	-13	Pass

Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



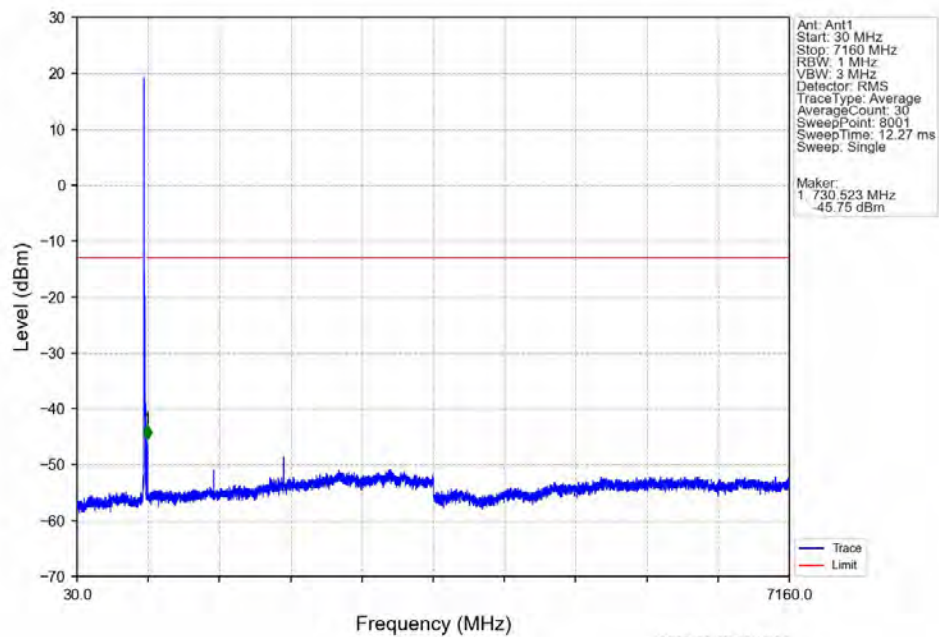
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-40.85	-13	Pass
716.1	726	0.1	CHP	2	716.158	-39.21	-13	Pass

Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV

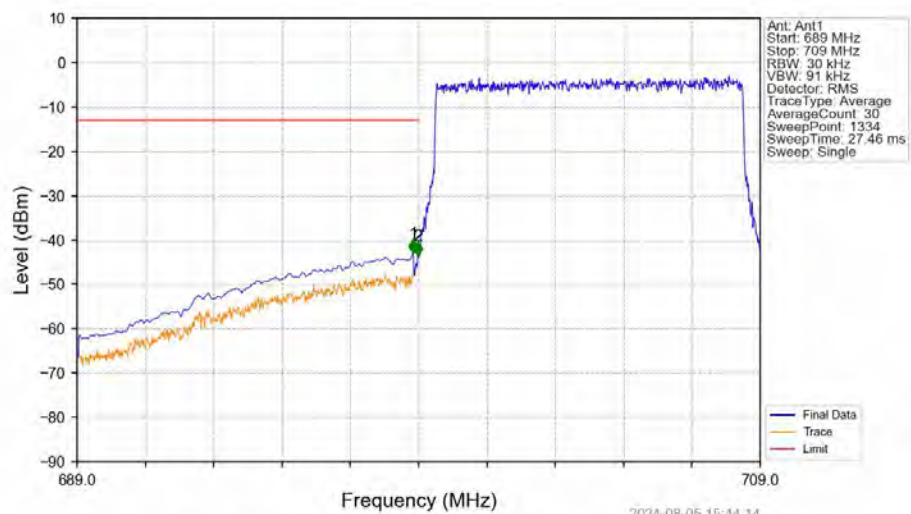


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-36.22	-13	Pass
698.9	699	0.03	/	2	698.977	-32.12	-13	Pass
699	709	0.03	/	/	/	/	/	/

Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV

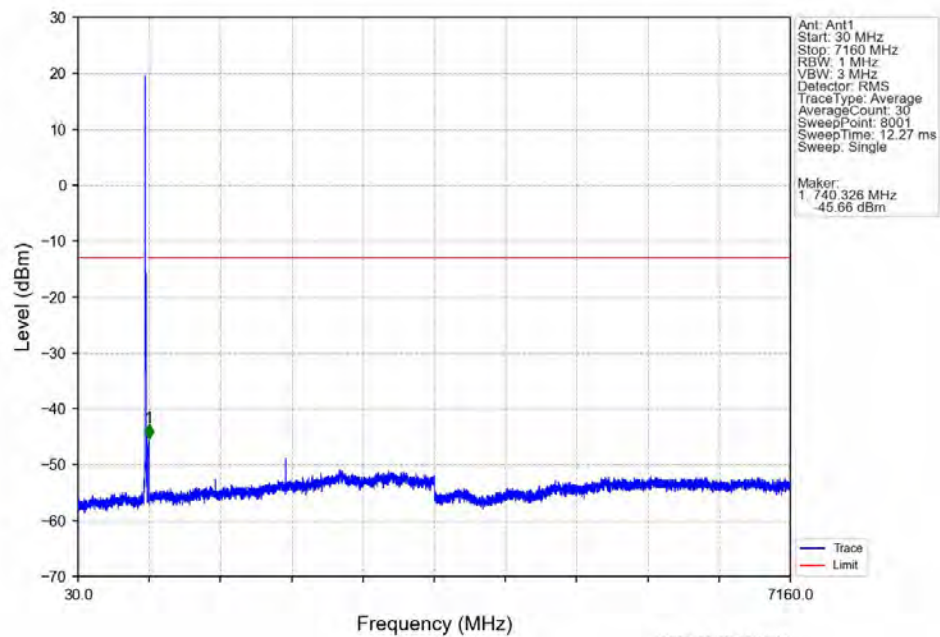


Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV

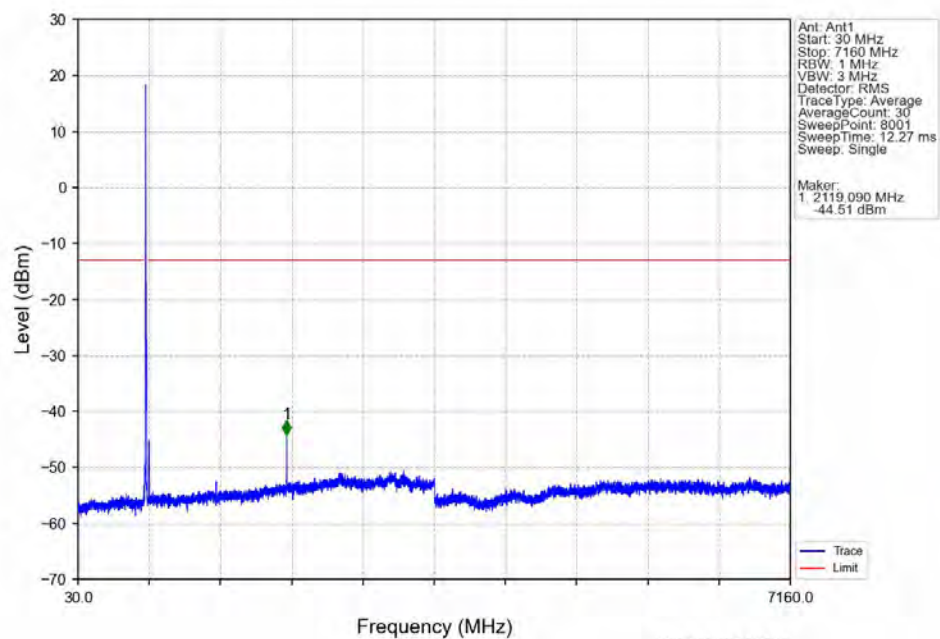


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-42.88	-13	Pass
698.9	699	0.03	/	2	698.977	-43.55	-13	Pass
699	709	0.03	/	/	/	/	/	/

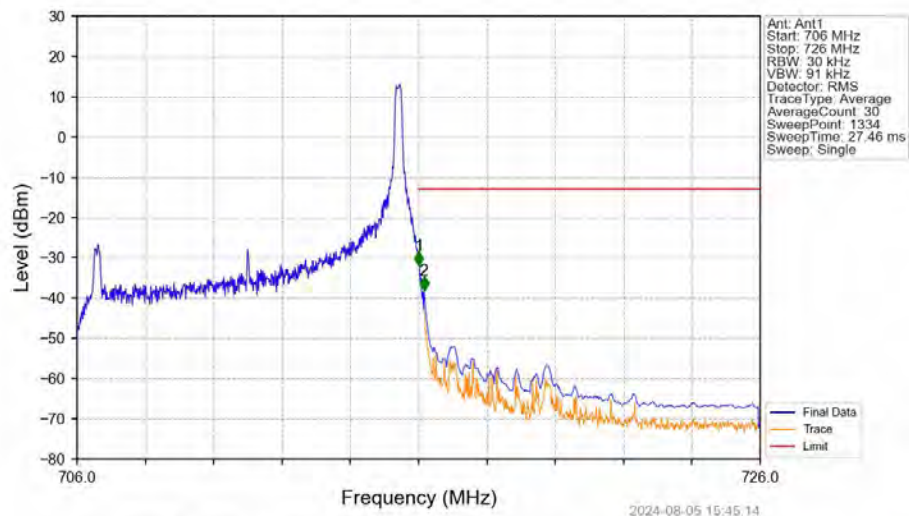
Band12_10MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV

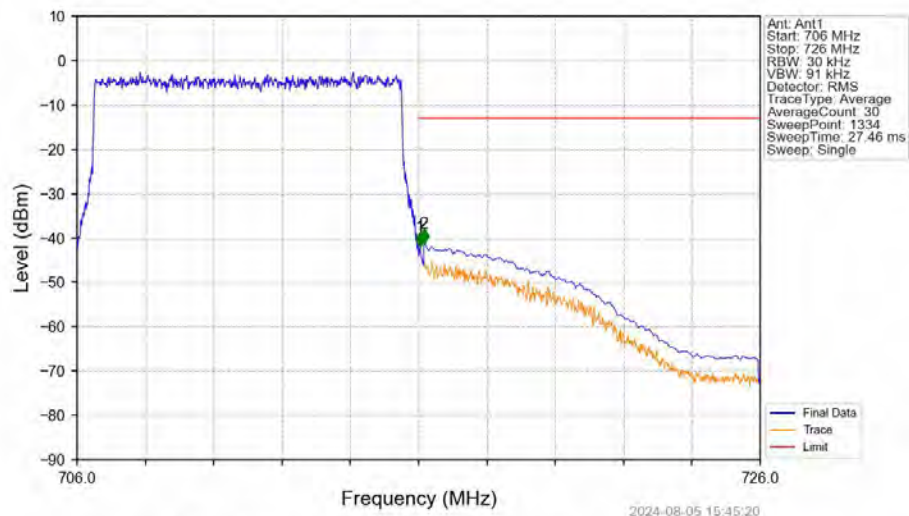


Band12_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-31.88	-13	Pass
716.1	726	0.1	CHP	2	716.158	-38.09	-13	Pass

Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.038	-41.88	-13	Pass
716.1	726	0.1	CHP	2	716.158	-41.16	-13	Pass

7. Form731

7.1 Test Result

7.1.1 Form731_Power

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	0.1384	0.0411	ppm	1M12G7D	27H	21.41
12	1.4	699.7	715.3	0.1271	0.0481	ppm	1M12W7D	27H	21.04
12	3	700.5	714.5	0.1387	0.0607	ppm	2M76G7D	27H	21.42
12	3	700.5	714.5	0.1445	0.0448	ppm	2M77W7D	27H	21.60
12	5	701.5	713.5	0.1377	0.0652	ppm	4M58G7D	27H	21.39
12	5	701.5	713.5	0.1225	0.0685	ppm	4M57W7D	27H	20.88
12	10	704	711	0.1396	0.0630	ppm	9M07G7D	27H	21.45
12	10	704	711	0.1312	0.0645	ppm	9M07W7D	27H	21.18

7.1.2 Form731_ERP

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	0.0643	0.0411	ppm	1M12G7D	27H	18.08
12	1.4	699.7	715.3	0.0590	0.0481	ppm	1M12W7D	27H	17.71
12	3	700.5	714.5	0.0644	0.0607	ppm	2M76G7D	27H	18.09
12	3	700.5	714.5	0.0671	0.0448	ppm	2M77W7D	27H	18.27
12	5	701.5	713.5	0.0640	0.0652	ppm	4M58G7D	27H	18.06
12	5	701.5	713.5	0.0569	0.0685	ppm	4M57W7D	27H	17.55
12	10	704	711	0.0649	0.0630	ppm	9M07G7D	27H	18.12
12	10	704	711	0.0610	0.0645	ppm	9M07W7D	27H	17.85