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	23.08	-1.42	19.51	<=34.77	Pass
			2	23.07	-1.42	19.50	<=34.77	Pass
			5	23.08	-1.42	19.51	<=34.77	Pass
		3	0	23.04	-1.42	19.47	<=34.77	Pass
			2	23.05	-1.42	19.48	<=34.77	Pass
			3	22.97	-1.42	19.40	<=34.77	Pass
		6	0	21.89	-1.42	18.32	<=34.77	Pass
	707.5	1	0	22.79	-1.42	19.22	<=34.77	Pass
			2	22.93	-1.42	19.36	<=34.77	Pass
			5	22.96	-1.42	19.39	<=34.77	Pass
		3	0	22.88	-1.42	19.31	<=34.77	Pass
			2	22.88	-1.42	19.31	<=34.77	Pass
			3	22.86	-1.42	19.29	<=34.77	Pass
		6	0	21.82	-1.42	18.25	<=34.77	Pass
	715.3	1	0	22.69	-1.42	19.12	<=34.77	Pass
			2	22.74	-1.42	19.17	<=34.77	Pass
			5	22.76	-1.42	19.19	<=34.77	Pass
		3	0	22.92	-1.42	19.35	<=34.77	Pass
			2	22.89	-1.42	19.32	<=34.77	Pass
			3	22.85	-1.42	19.28	<=34.77	Pass
		6	0	21.75	-1.42	18.18	<=34.77	Pass
16QAM	699.7	1	0	21.44	-1.42	17.87	<=34.77	Pass
			2	21.39	-1.42	17.82	<=34.77	Pass
			5	21.48	-1.42	17.91	<=34.77	Pass
		3	0	21.74	-1.42	18.17	<=34.77	Pass
			2	21.77	-1.42	18.20	<=34.77	Pass
			3	21.75	-1.42	18.18	<=34.77	Pass
		6	0	21.07	-1.42	17.50	<=34.77	Pass
	707.5	1	0	21.95	-1.42	18.38	<=34.77	Pass
			2	21.85	-1.42	18.28	<=34.77	Pass
			5	21.98	-1.42	18.41	<=34.77	Pass
		3	0	21.84	-1.42	18.27	<=34.77	Pass
			2	21.90	-1.42	18.33	<=34.77	Pass
			3	21.85	-1.42	18.28	<=34.77	Pass
		6	0	20.95	-1.42	17.38	<=34.77	Pass
	715.3	1	0	21.89	-1.42	18.32	<=34.77	Pass
			2	22.22	-1.42	18.65	<=34.77	Pass
			5	21.89	-1.42	18.32	<=34.77	Pass
		3	0	21.71	-1.42	18.14	<=34.77	Pass
			2	21.72	-1.42	18.15	<=34.77	Pass
			3	21.71	-1.42	18.14	<=34.77	Pass
		6	0	21.31	-1.42	17.74	<=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	22.92	-1.42	19.35	<=34.77	Pass
			7	22.91	-1.42	19.34	<=34.77	Pass
			14	22.79	-1.42	19.22	<=34.77	Pass
		8	0	21.96	-1.42	18.39	<=34.77	Pass
			4	21.94	-1.42	18.37	<=34.77	Pass
			7	21.96	-1.42	18.39	<=34.77	Pass
		15	0	21.93	-1.42	18.36	<=34.77	Pass
	707.5	1	0	22.89	-1.42	19.32	<=34.77	Pass
			7	22.97	-1.42	19.40	<=34.77	Pass
			14	22.96	-1.42	19.39	<=34.77	Pass
		8	0	21.88	-1.42	18.31	<=34.77	Pass
			4	22.00	-1.42	18.43	<=34.77	Pass
			7	21.99	-1.42	18.42	<=34.77	Pass
		15	0	22.07	-1.42	18.50	<=34.77	Pass
	714.5	1	0	22.99	-1.42	19.42	<=34.77	Pass
			7	22.95	-1.42	19.38	<=34.77	Pass
			14	22.96	-1.42	19.39	<=34.77	Pass
		8	0	21.97	-1.42	18.40	<=34.77	Pass
			4	21.97	-1.42	18.40	<=34.77	Pass
			7	22.02	-1.42	18.45	<=34.77	Pass
		15	0	22.00	-1.42	18.43	<=34.77	Pass
16QAM	700.5	1	0	21.74	-1.42	18.17	<=34.77	Pass
			7	21.56	-1.42	17.99	<=34.77	Pass
			14	21.71	-1.42	18.14	<=34.77	Pass
		8	0	21.15	-1.42	17.58	<=34.77	Pass
			4	21.14	-1.42	17.57	<=34.77	Pass
			7	21.29	-1.42	17.72	<=34.77	Pass
		15	0	20.98	-1.42	17.41	<=34.77	Pass
	707.5	1	0	22.04	-1.42	18.47	<=34.77	Pass
			7	22.02	-1.42	18.45	<=34.77	Pass
			14	22.06	-1.42	18.49	<=34.77	Pass
		8	0	21.09	-1.42	17.52	<=34.77	Pass
			4	21.08	-1.42	17.51	<=34.77	Pass
			7	21.00	-1.42	17.43	<=34.77	Pass
		15	0	21.01	-1.42	17.44	<=34.77	Pass
	714.5	1	0	22.14	-1.42	18.57	<=34.77	Pass
			7	22.17	-1.42	18.60	<=34.77	Pass
			14	22.18	-1.42	18.61	<=34.77	Pass
		8	0	21.52	-1.42	17.95	<=34.77	Pass
			4	21.57	-1.42	18.00	<=34.77	Pass
			7	21.52	-1.42	17.95	<=34.77	Pass
		15	0	21.46	-1.42	17.89	<=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	23.01	-1.42	19.44	<=34.77	Pass
			13	22.99	-1.42	19.42	<=34.77	Pass
			24	23.06	-1.42	19.49	<=34.77	Pass

		12	0	22.04	-1.42	18.47	<=34.77	Pass
			6	22.03	-1.42	18.46	<=34.77	Pass
			13	21.98	-1.42	18.41	<=34.77	Pass
		25	0	22.08	-1.42	18.51	<=34.77	Pass
	707.5	1	0	22.87	-1.42	19.30	<=34.77	Pass
			13	22.91	-1.42	19.34	<=34.77	Pass
			24	22.89	-1.42	19.32	<=34.77	Pass
		12	0	21.94	-1.42	18.37	<=34.77	Pass
			6	21.95	-1.42	18.38	<=34.77	Pass
			13	21.98	-1.42	18.41	<=34.77	Pass
		25	0	21.97	-1.42	18.40	<=34.77	Pass
	713.5	1	0	22.96	-1.42	19.39	<=34.77	Pass
			13	22.78	-1.42	19.21	<=34.77	Pass
			24	22.86	-1.42	19.29	<=34.77	Pass
		12	0	21.86	-1.42	18.29	<=34.77	Pass
			6	21.92	-1.42	18.35	<=34.77	Pass
			13	21.97	-1.42	18.40	<=34.77	Pass
		25	0	21.88	-1.42	18.31	<=34.77	Pass
16QAM	701.5	1	0	22.05	-1.42	18.48	<=34.77	Pass
			13	22.18	-1.42	18.61	<=34.77	Pass
			24	22.17	-1.42	18.60	<=34.77	Pass
		12	0	21.06	-1.42	17.49	<=34.77	Pass
			6	21.19	-1.42	17.62	<=34.77	Pass
			13	21.15	-1.42	17.58	<=34.77	Pass
		25	0	21.16	-1.42	17.59	<=34.77	Pass
	707.5	1	0	21.11	-1.42	17.54	<=34.77	Pass
			13	21.19	-1.42	17.62	<=34.77	Pass
			24	21.23	-1.42	17.66	<=34.77	Pass
		12	0	20.97	-1.42	17.40	<=34.77	Pass
			6	20.95	-1.42	17.38	<=34.77	Pass
			13	20.95	-1.42	17.38	<=34.77	Pass
		25	0	21.01	-1.42	17.44	<=34.77	Pass
	713.5	1	0	21.98	-1.42	18.41	<=34.77	Pass
			13	21.96	-1.42	18.39	<=34.77	Pass
			24	21.91	-1.42	18.34	<=34.77	Pass
		12	0	20.84	-1.42	17.27	<=34.77	Pass
			6	21.36	-1.42	17.79	<=34.77	Pass
			13	21.33	-1.42	17.76	<=34.77	Pass
		25	0	21.52	-1.42	17.95	<=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	22.83	-1.42	19.26	<=34.77	Pass
			25	22.85	-1.42	19.28	<=34.77	Pass
			49	22.79	-1.42	19.22	<=34.77	Pass
		25	0	22.02	-1.42	18.45	<=34.77	Pass
			13	21.97	-1.42	18.40	<=34.77	Pass
			25	21.88	-1.42	18.31	<=34.77	Pass
		50	0	21.91	-1.42	18.34	<=34.77	Pass
	707.5	1	0	22.77	-1.42	19.20	<=34.77	Pass
			25	22.79	-1.42	19.22	<=34.77	Pass

			49	22.87	-1.42	19.30	<=34.77	Pass
		25	0	21.83	-1.42	18.26	<=34.77	Pass
			13	21.79	-1.42	18.22	<=34.77	Pass
			25	21.82	-1.42	18.25	<=34.77	Pass
		50	0	21.83	-1.42	18.26	<=34.77	Pass
	711	1	0	22.77	-1.42	19.20	<=34.77	Pass
			25	22.70	-1.42	19.13	<=34.77	Pass
			49	22.73	-1.42	19.16	<=34.77	Pass
		25	0	21.73	-1.42	18.16	<=34.77	Pass
			13	21.79	-1.42	18.22	<=34.77	Pass
			25	21.88	-1.42	18.31	<=34.77	Pass
		50	0	21.75	-1.42	18.18	<=34.77	Pass
16QAM	704	1	0	21.86	-1.42	18.29	<=34.77	Pass
			25	21.90	-1.42	18.33	<=34.77	Pass
			49	21.88	-1.42	18.31	<=34.77	Pass
		25	0	20.99	-1.42	17.42	<=34.77	Pass
			13	20.93	-1.42	17.36	<=34.77	Pass
			25	20.98	-1.42	17.41	<=34.77	Pass
		50	0	20.99	-1.42	17.42	<=34.77	Pass
	707.5	1	0	21.38	-1.42	17.81	<=34.77	Pass
			25	21.32	-1.42	17.75	<=34.77	Pass
			49	21.32	-1.42	17.75	<=34.77	Pass
		25	0	20.97	-1.42	17.40	<=34.77	Pass
			13	20.91	-1.42	17.34	<=34.77	Pass
			25	20.95	-1.42	17.38	<=34.77	Pass
		50	0	20.75	-1.42	17.18	<=34.77	Pass
	711	1	0	22.40	-1.42	18.83	<=34.77	Pass
			25	22.56	-1.42	18.99	<=34.77	Pass
			49	22.51	-1.42	18.94	<=34.77	Pass
		25	0	20.73	-1.42	17.16	<=34.77	Pass
			13	20.87	-1.42	17.30	<=34.77	Pass
			25	21.34	-1.42	17.77	<=34.77	Pass
		50	0	20.80	-1.42	17.23	<=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	0.129	0.0002	-2.5 to 2.5	Pass
					3.85	4.549	0.0065	-2.5 to 2.5	Pass
					4.43	11.573	0.0165	-2.5 to 2.5	Pass
				-30	3.85	13.604	0.0194	-2.5 to 2.5	Pass
				-20	3.85	14.620	0.0209	-2.5 to 2.5	Pass
				-10	3.85	14.205	0.0203	-2.5 to 2.5	Pass
				0	3.85	17.066	0.0244	-2.5 to 2.5	Pass
				10	3.85	14.005	0.0200	-2.5 to 2.5	Pass
				30	3.85	8.225	0.0118	-2.5 to 2.5	Pass
				40	3.85	-0.486	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-8.082	-0.0116	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-9.084	-0.0128	-2.5 to 2.5	Pass

					3.85	-8.855	-0.0125	-2.5 to 2.5	Pass
					4.43	-13.375	-0.0189	-2.5 to 2.5	Pass
				-30	3.85	-14.548	-0.0206	-2.5 to 2.5	Pass
				-20	3.85	-17.738	-0.0251	-2.5 to 2.5	Pass
				-10	3.85	-17.638	-0.0249	-2.5 to 2.5	Pass
				0	3.85	-17.939	-0.0254	-2.5 to 2.5	Pass
				10	3.85	-20.127	-0.0284	-2.5 to 2.5	Pass
				30	3.85	-26.550	-0.0375	-2.5 to 2.5	Pass
				40	3.85	-28.567	-0.0404	-2.5 to 2.5	Pass
				50	3.85	-30.642	-0.0433	-2.5 to 2.5	Pass
	715.3	6	0		3.27	7.553	0.0106	-2.5 to 2.5	Pass
				20	3.85	25.678	0.0359	-2.5 to 2.5	Pass
					4.43	40.526	0.0567	-2.5 to 2.5	Pass
				-30	3.85	49.467	0.0692	-2.5 to 2.5	Pass
				-20	3.85	3.934	0.0055	-2.5 to 2.5	Pass
				-10	3.85	3.405	0.0048	-2.5 to 2.5	Pass
				0	3.85	-2.518	-0.0035	-2.5 to 2.5	Pass
				10	3.85	-7.668	-0.0107	-2.5 to 2.5	Pass
				30	3.85	-10.715	-0.0150	-2.5 to 2.5	Pass
				40	3.85	-15.006	-0.0210	-2.5 to 2.5	Pass
				50	3.85	-20.127	-0.0281	-2.5 to 2.5	Pass
16QAM	699.7	6	0		3.27	-12.918	-0.0185	-2.5 to 2.5	Pass
				20	3.85	-18.940	-0.0271	-2.5 to 2.5	Pass
					4.43	-27.423	-0.0392	-2.5 to 2.5	Pass
				-30	3.85	-33.445	-0.0478	-2.5 to 2.5	Pass
				-20	3.85	-42.629	-0.0609	-2.5 to 2.5	Pass
				-10	3.85	-2.818	-0.0040	-2.5 to 2.5	Pass
				0	3.85	-8.483	-0.0121	-2.5 to 2.5	Pass
				10	3.85	-7.110	-0.0102	-2.5 to 2.5	Pass
				30	3.85	-11.444	-0.0164	-2.5 to 2.5	Pass
				40	3.85	-11.215	-0.0160	-2.5 to 2.5	Pass
				50	3.85	-15.550	-0.0222	-2.5 to 2.5	Pass
	707.5	6	0		3.27	-30.985	-0.0438	-2.5 to 2.5	Pass
				20	3.85	-34.060	-0.0481	-2.5 to 2.5	Pass
					4.43	-39.053	-0.0552	-2.5 to 2.5	Pass
				-30	3.85	-35.391	-0.0500	-2.5 to 2.5	Pass
				-20	3.85	-31.614	-0.0447	-2.5 to 2.5	Pass
				-10	3.85	-27.967	-0.0395	-2.5 to 2.5	Pass
				0	3.85	-27.895	-0.0394	-2.5 to 2.5	Pass
				10	3.85	-27.423	-0.0388	-2.5 to 2.5	Pass
				30	3.85	-26.808	-0.0379	-2.5 to 2.5	Pass
				40	3.85	-27.623	-0.0390	-2.5 to 2.5	Pass
				50	3.85	-25.377	-0.0359	-2.5 to 2.5	Pass
	715.3	6	0		3.27	-28.839	-0.0403	-2.5 to 2.5	Pass
				20	3.85	-37.107	-0.0519	-2.5 to 2.5	Pass
					4.43	-37.737	-0.0528	-2.5 to 2.5	Pass
				-30	3.85	-44.131	-0.0617	-2.5 to 2.5	Pass
				-20	3.85	-1.330	-0.0019	-2.5 to 2.5	Pass
				-10	3.85	-5.207	-0.0073	-2.5 to 2.5	Pass
				0	3.85	-13.776	-0.0193	-2.5 to 2.5	Pass
				10	3.85	-21.300	-0.0298	-2.5 to 2.5	Pass
				30	3.85	-29.140	-0.0407	-2.5 to 2.5	Pass
				40	3.85	-33.116	-0.0463	-2.5 to 2.5	Pass
				50	3.85	-37.866	-0.0529	-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	9.470	0.0135	-2.5 to 2.5	Pass
					3.85	23.589	0.0337	-2.5 to 2.5	Pass
					4.43	39.797	0.0568	-2.5 to 2.5	Pass
				-30	3.85	47.021	0.0671	-2.5 to 2.5	Pass
				-20	3.85	-4.821	-0.0069	-2.5 to 2.5	Pass
				-10	3.85	-6.537	-0.0093	-2.5 to 2.5	Pass
				0	3.85	-9.255	-0.0132	-2.5 to 2.5	Pass
				10	3.85	-18.511	-0.0264	-2.5 to 2.5	Pass
				30	3.85	-31.214	-0.0446	-2.5 to 2.5	Pass
				40	3.85	-42.615	-0.0608	-2.5 to 2.5	Pass
				50	3.85	1.187	0.0017	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-1.602	-0.0023	-2.5 to 2.5	Pass
					3.85	-5.836	-0.0082	-2.5 to 2.5	Pass
					4.43	-5.407	-0.0076	-2.5 to 2.5	Pass
				-30	3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	-2.732	-0.0039	-2.5 to 2.5	Pass
				-10	3.85	-1.903	-0.0027	-2.5 to 2.5	Pass
				0	3.85	-5.765	-0.0081	-2.5 to 2.5	Pass
				10	3.85	-8.812	-0.0125	-2.5 to 2.5	Pass
				30	3.85	-10.815	-0.0153	-2.5 to 2.5	Pass
				40	3.85	-13.318	-0.0188	-2.5 to 2.5	Pass
				50	3.85	-19.298	-0.0273	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-1.745	-0.0024	-2.5 to 2.5	Pass
					3.85	-2.375	-0.0033	-2.5 to 2.5	Pass
					4.43	-3.490	-0.0049	-2.5 to 2.5	Pass
				-30	3.85	-4.163	-0.0058	-2.5 to 2.5	Pass
				-20	3.85	-6.452	-0.0090	-2.5 to 2.5	Pass
				-10	3.85	-7.453	-0.0104	-2.5 to 2.5	Pass
				0	3.85	-2.260	-0.0032	-2.5 to 2.5	Pass
				10	3.85	-2.675	-0.0037	-2.5 to 2.5	Pass
				30	3.85	-4.034	-0.0056	-2.5 to 2.5	Pass
				40	3.85	-0.944	-0.0013	-2.5 to 2.5	Pass
				50	3.85	-3.004	-0.0042	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	-10.443	-0.0149	-2.5 to 2.5	Pass
					3.85	-14.076	-0.0201	-2.5 to 2.5	Pass
					4.43	-20.099	-0.0287	-2.5 to 2.5	Pass
				-30	3.85	-25.892	-0.0370	-2.5 to 2.5	Pass
				-20	3.85	-37.694	-0.0538	-2.5 to 2.5	Pass
				-10	3.85	-4.492	-0.0064	-2.5 to 2.5	Pass
				0	3.85	-16.036	-0.0229	-2.5 to 2.5	Pass
				10	3.85	-25.735	-0.0367	-2.5 to 2.5	Pass
				30	3.85	-31.514	-0.0450	-2.5 to 2.5	Pass
				40	3.85	-30.956	-0.0442	-2.5 to 2.5	Pass
				50	3.85	-39.639	-0.0566	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-17.238	-0.0244	-2.5 to 2.5	Pass
					3.85	-14.577	-0.0206	-2.5 to 2.5	Pass
					4.43	-14.176	-0.0200	-2.5 to 2.5	Pass
				-30	3.85	-20.070	-0.0284	-2.5 to 2.5	Pass
				-20	3.85	-25.578	-0.0362	-2.5 to 2.5	Pass
				-10	3.85	-24.934	-0.0352	-2.5 to 2.5	Pass
				0	3.85	-26.765	-0.0378	-2.5 to 2.5	Pass
				10	3.85	-29.225	-0.0413	-2.5 to 2.5	Pass
				30	3.85	-32.187	-0.0455	-2.5 to 2.5	Pass
				40	3.85	-35.348	-0.0500	-2.5 to 2.5	Pass

				50	3.85	-33.102	-0.0468	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-7.868	-0.0110	-2.5 to 2.5	Pass
					3.85	-13.647	-0.0191	-2.5 to 2.5	Pass
					4.43	-15.192	-0.0213	-2.5 to 2.5	Pass
				-30	3.85	-10.099	-0.0141	-2.5 to 2.5	Pass
				-20	3.85	-7.467	-0.0105	-2.5 to 2.5	Pass
				-10	3.85	-12.889	-0.0180	-2.5 to 2.5	Pass
				0	3.85	-18.554	-0.0260	-2.5 to 2.5	Pass
				10	3.85	-18.768	-0.0263	-2.5 to 2.5	Pass
				30	3.85	-15.335	-0.0215	-2.5 to 2.5	Pass
				40	3.85	-13.490	-0.0189	-2.5 to 2.5	Pass
				50	3.85	-13.947	-0.0195	-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	6.952	0.0099	-2.5 to 2.5	Pass
					3.85	20.084	0.0286	-2.5 to 2.5	Pass
					4.43	28.839	0.0411	-2.5 to 2.5	Pass
				-30	3.85	35.005	0.0499	-2.5 to 2.5	Pass
				-20	3.85	41.814	0.0596	-2.5 to 2.5	Pass
				-10	3.85	3.433	0.0049	-2.5 to 2.5	Pass
				0	3.85	3.705	0.0053	-2.5 to 2.5	Pass
				10	3.85	4.177	0.0060	-2.5 to 2.5	Pass
				30	3.85	-2.017	-0.0029	-2.5 to 2.5	Pass
				40	3.85	-11.559	-0.0165	-2.5 to 2.5	Pass
				50	3.85	-17.209	-0.0245	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-2.975	-0.0042	-2.5 to 2.5	Pass
					3.85	-5.207	-0.0074	-2.5 to 2.5	Pass
					4.43	-6.151	-0.0087	-2.5 to 2.5	Pass
				-30	3.85	-2.832	-0.0040	-2.5 to 2.5	Pass
				-20	3.85	-3.362	-0.0048	-2.5 to 2.5	Pass
				-10	3.85	-1.588	-0.0022	-2.5 to 2.5	Pass
				0	3.85	-2.661	-0.0038	-2.5 to 2.5	Pass
				10	3.85	-3.476	-0.0049	-2.5 to 2.5	Pass
				30	3.85	-4.764	-0.0067	-2.5 to 2.5	Pass
				40	3.85	-7.424	-0.0105	-2.5 to 2.5	Pass
				50	3.85	-10.285	-0.0145	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-0.472	-0.0007	-2.5 to 2.5	Pass
					3.85	-1.116	-0.0016	-2.5 to 2.5	Pass
					4.43	-1.545	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	-1.087	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass
				0	3.85	-2.904	-0.0041	-2.5 to 2.5	Pass
				10	3.85	-4.649	-0.0065	-2.5 to 2.5	Pass
				30	3.85	-2.446	-0.0034	-2.5 to 2.5	Pass
				40	3.85	-3.061	-0.0043	-2.5 to 2.5	Pass
				50	3.85	-2.604	-0.0036	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-26.178	-0.0373	-2.5 to 2.5	Pass
					3.85	-33.946	-0.0484	-2.5 to 2.5	Pass
					4.43	-41.142	-0.0586	-2.5 to 2.5	Pass
				-30	3.85	-3.448	-0.0049	-2.5 to 2.5	Pass

				-20	3.85	-14.248	-0.0203	-2.5 to 2.5	Pass
				-10	3.85	-24.705	-0.0352	-2.5 to 2.5	Pass
				0	3.85	-33.803	-0.0482	-2.5 to 2.5	Pass
				10	3.85	-40.941	-0.0584	-2.5 to 2.5	Pass
				30	3.85	-40.812	-0.0582	-2.5 to 2.5	Pass
				40	3.85	-45.862	-0.0654	-2.5 to 2.5	Pass
				50	3.85	-1.087	-0.0015	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-12.746	-0.0180	-2.5 to 2.5	Pass
					3.85	-16.036	-0.0227	-2.5 to 2.5	Pass
					4.43	-18.210	-0.0257	-2.5 to 2.5	Pass
				-30	3.85	-16.580	-0.0234	-2.5 to 2.5	Pass
				-20	3.85	-10.958	-0.0155	-2.5 to 2.5	Pass
				-10	3.85	-6.022	-0.0085	-2.5 to 2.5	Pass
				0	3.85	-5.951	-0.0084	-2.5 to 2.5	Pass
				10	3.85	-9.942	-0.0141	-2.5 to 2.5	Pass
				30	3.85	-9.999	-0.0141	-2.5 to 2.5	Pass
				40	3.85	-12.388	-0.0175	-2.5 to 2.5	Pass
				50	3.85	-12.102	-0.0171	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-6.065	-0.0085	-2.5 to 2.5	Pass
					3.85	-8.397	-0.0118	-2.5 to 2.5	Pass
					4.43	-13.075	-0.0183	-2.5 to 2.5	Pass
				-30	3.85	-11.587	-0.0162	-2.5 to 2.5	Pass
				-20	3.85	-11.730	-0.0164	-2.5 to 2.5	Pass
				-10	3.85	-9.012	-0.0126	-2.5 to 2.5	Pass
				0	3.85	-6.366	-0.0089	-2.5 to 2.5	Pass
				10	3.85	-3.448	-0.0048	-2.5 to 2.5	Pass
				30	3.85	2.260	0.0032	-2.5 to 2.5	Pass
				40	3.85	5.279	0.0074	-2.5 to 2.5	Pass
				50	3.85	6.094	0.0085	-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	9.699	0.0138	-2.5 to 2.5	Pass
					3.85	31.657	0.0450	-2.5 to 2.5	Pass
					4.43	20.428	0.0290	-2.5 to 2.5	Pass
				-30	3.85	14.820	0.0211	-2.5 to 2.5	Pass
				-20	3.85	25.992	0.0369	-2.5 to 2.5	Pass
				-10	3.85	26.364	0.0374	-2.5 to 2.5	Pass
				0	3.85	16.966	0.0241	-2.5 to 2.5	Pass
				10	3.85	8.268	0.0117	-2.5 to 2.5	Pass
				30	3.85	-2.117	-0.0030	-2.5 to 2.5	Pass
				40	3.85	-15.192	-0.0216	-2.5 to 2.5	Pass
				50	3.85	-26.851	-0.0381	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	0.715	0.0010	-2.5 to 2.5	Pass
					3.85	-3.619	-0.0051	-2.5 to 2.5	Pass
					4.43	-9.212	-0.0130	-2.5 to 2.5	Pass
				-30	3.85	-8.283	-0.0117	-2.5 to 2.5	Pass
				-20	3.85	-5.751	-0.0081	-2.5 to 2.5	Pass
				-10	3.85	-7.653	-0.0108	-2.5 to 2.5	Pass
				0	3.85	-11.687	-0.0165	-2.5 to 2.5	Pass
				10	3.85	-13.919	-0.0197	-2.5 to 2.5	Pass
				30	3.85	-18.697	-0.0264	-2.5 to 2.5	Pass

				40	3.85	-21.043	-0.0297	-2.5 to 2.5	Pass
				50	3.85	-20.914	-0.0296	-2.5 to 2.5	Pass
					3.27	0.272	0.0004	-2.5 to 2.5	Pass
				20	3.85	5.007	0.0070	-2.5 to 2.5	Pass
					4.43	3.862	0.0054	-2.5 to 2.5	Pass
				-30	3.85	6.466	0.0091	-2.5 to 2.5	Pass
				-20	3.85	10.901	0.0153	-2.5 to 2.5	Pass
	711	50	0	-10	3.85	11.802	0.0166	-2.5 to 2.5	Pass
				0	3.85	8.240	0.0116	-2.5 to 2.5	Pass
				10	3.85	11.287	0.0159	-2.5 to 2.5	Pass
				30	3.85	12.388	0.0174	-2.5 to 2.5	Pass
				40	3.85	12.374	0.0174	-2.5 to 2.5	Pass
				50	3.85	14.119	0.0199	-2.5 to 2.5	Pass
					3.27	-38.452	-0.0546	-2.5 to 2.5	Pass
				20	3.85	-28.982	-0.0412	-2.5 to 2.5	Pass
					4.43	-9.999	-0.0142	-2.5 to 2.5	Pass
				-30	3.85	-19.169	-0.0272	-2.5 to 2.5	Pass
				-20	3.85	-27.409	-0.0389	-2.5 to 2.5	Pass
	704	50	0	-10	3.85	-38.037	-0.0540	-2.5 to 2.5	Pass
				0	3.85	-45.376	-0.0645	-2.5 to 2.5	Pass
				10	3.85	-46.821	-0.0665	-2.5 to 2.5	Pass
				30	3.85	-45.462	-0.0646	-2.5 to 2.5	Pass
				40	3.85	4.191	0.0060	-2.5 to 2.5	Pass
				50	3.85	2.632	0.0037	-2.5 to 2.5	Pass
					3.27	-22.616	-0.0320	-2.5 to 2.5	Pass
				20	3.85	-27.137	-0.0384	-2.5 to 2.5	Pass
					4.43	-30.670	-0.0433	-2.5 to 2.5	Pass
				-30	3.85	-24.862	-0.0351	-2.5 to 2.5	Pass
				-20	3.85	-22.545	-0.0319	-2.5 to 2.5	Pass
16QAM	707.5	50	0	-10	3.85	-27.308	-0.0386	-2.5 to 2.5	Pass
				0	3.85	-17.023	-0.0241	-2.5 to 2.5	Pass
				10	3.85	-9.427	-0.0133	-2.5 to 2.5	Pass
				30	3.85	-13.232	-0.0187	-2.5 to 2.5	Pass
				40	3.85	-8.183	-0.0116	-2.5 to 2.5	Pass
				50	3.85	-6.409	-0.0091	-2.5 to 2.5	Pass
					3.27	10.743	0.0151	-2.5 to 2.5	Pass
				20	3.85	15.535	0.0218	-2.5 to 2.5	Pass
					4.43	17.295	0.0243	-2.5 to 2.5	Pass
				-30	3.85	19.341	0.0272	-2.5 to 2.5	Pass
				-20	3.85	15.206	0.0214	-2.5 to 2.5	Pass
	711	50	0	-10	3.85	19.412	0.0273	-2.5 to 2.5	Pass
				0	3.85	21.887	0.0308	-2.5 to 2.5	Pass
				10	3.85	20.528	0.0289	-2.5 to 2.5	Pass
				30	3.85	21.472	0.0302	-2.5 to 2.5	Pass
				40	3.85	18.797	0.0264	-2.5 to 2.5	Pass
				50	3.85	18.783	0.0264	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 B12_1.4MHz

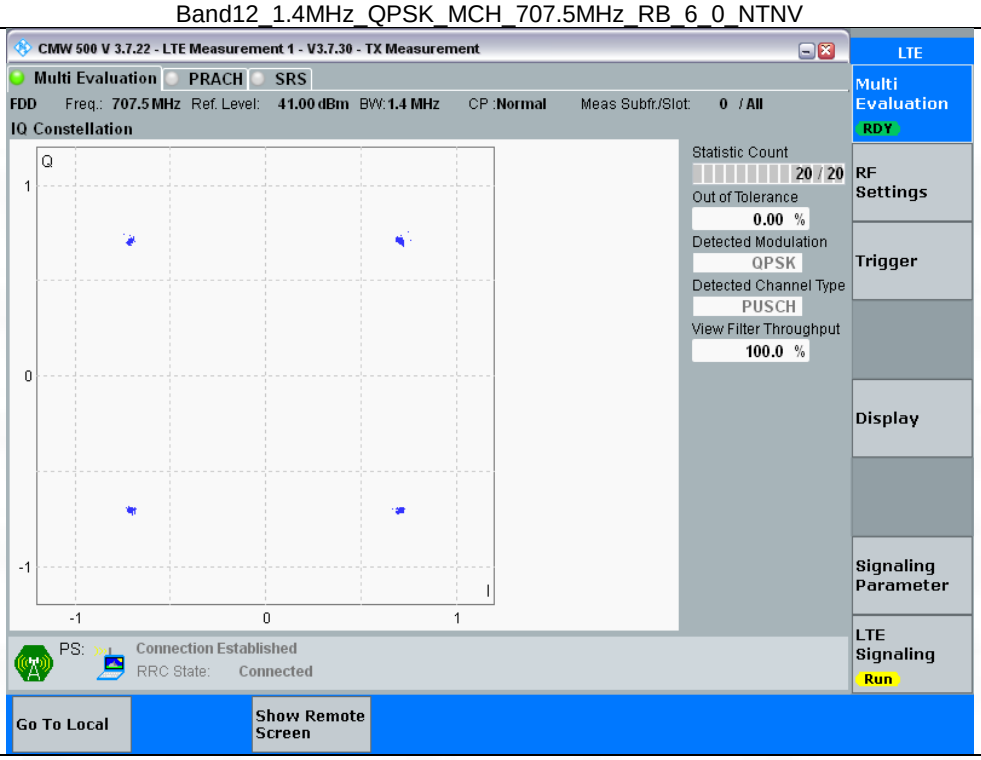
3.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	

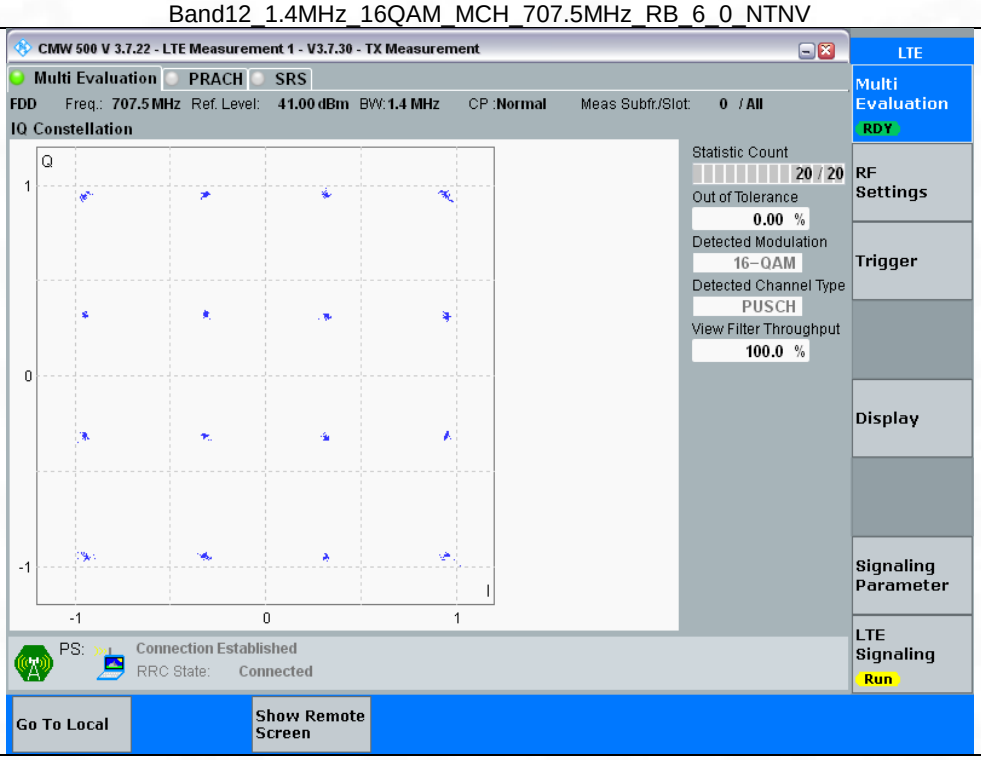
QPSK	707.5	6	0	Refer To Test Graph	Pass
16QAM	707.5	6	0	Refer To Test Graph	Pass

3.1.2 Test Graph

Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



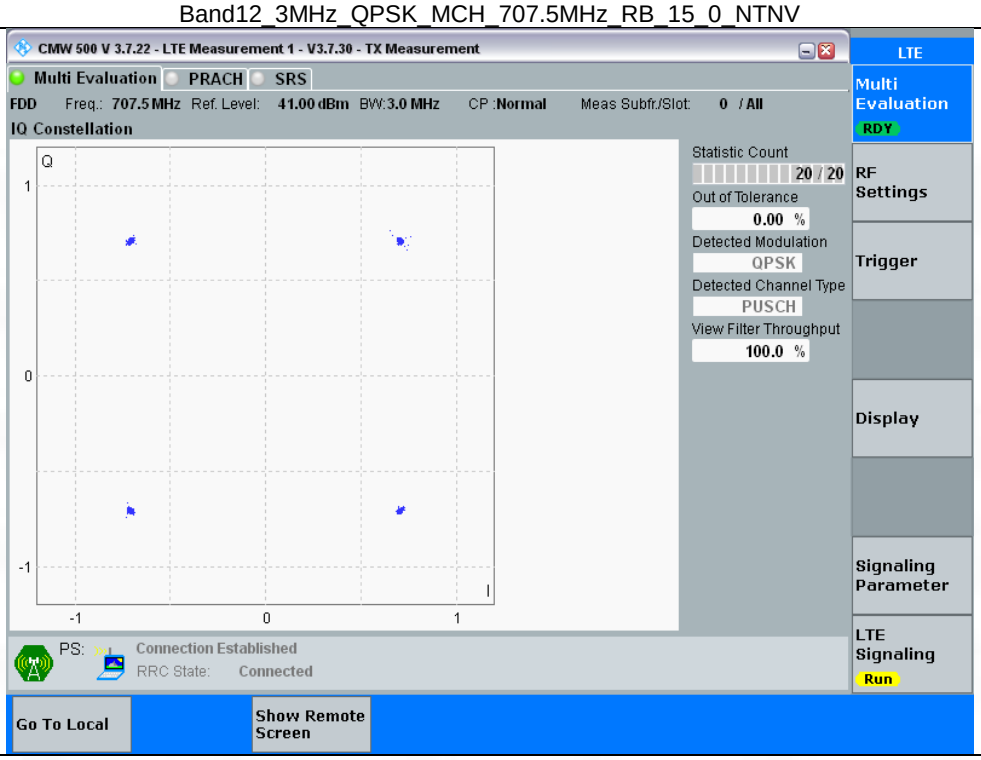
3.2 B12_3MHz

3.2.1 Test Result

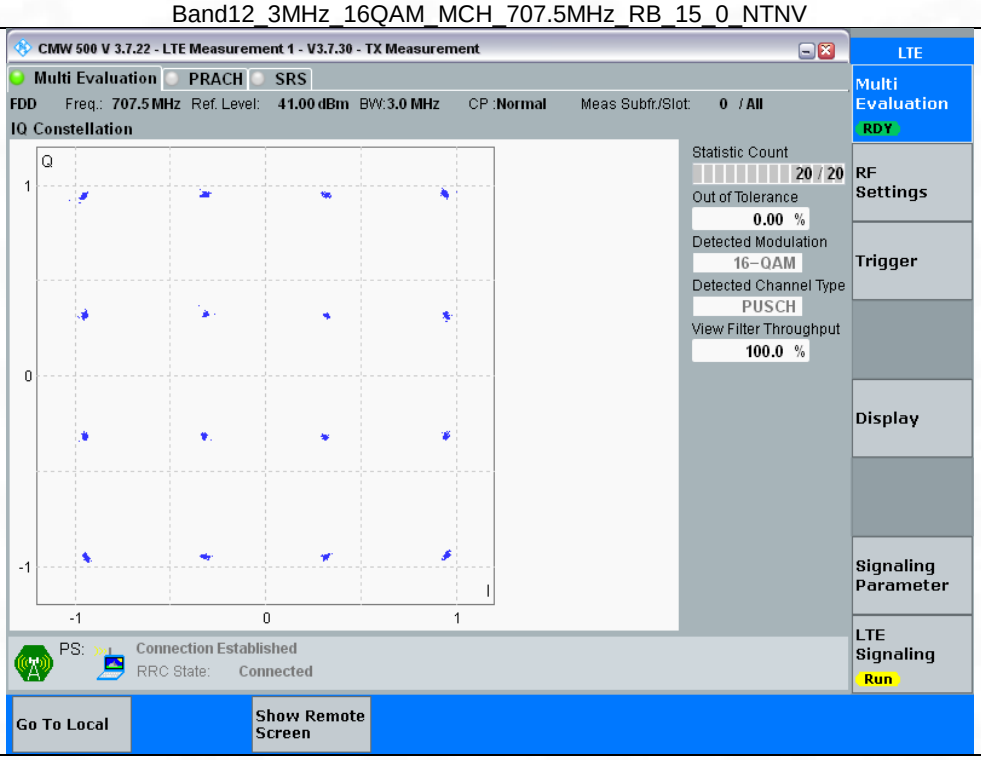
Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	15	0	Refer To Test Graph		Pass
16QAM	707.5	15	0	Refer To Test Graph		Pass

3.2.2 Test Graph

Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



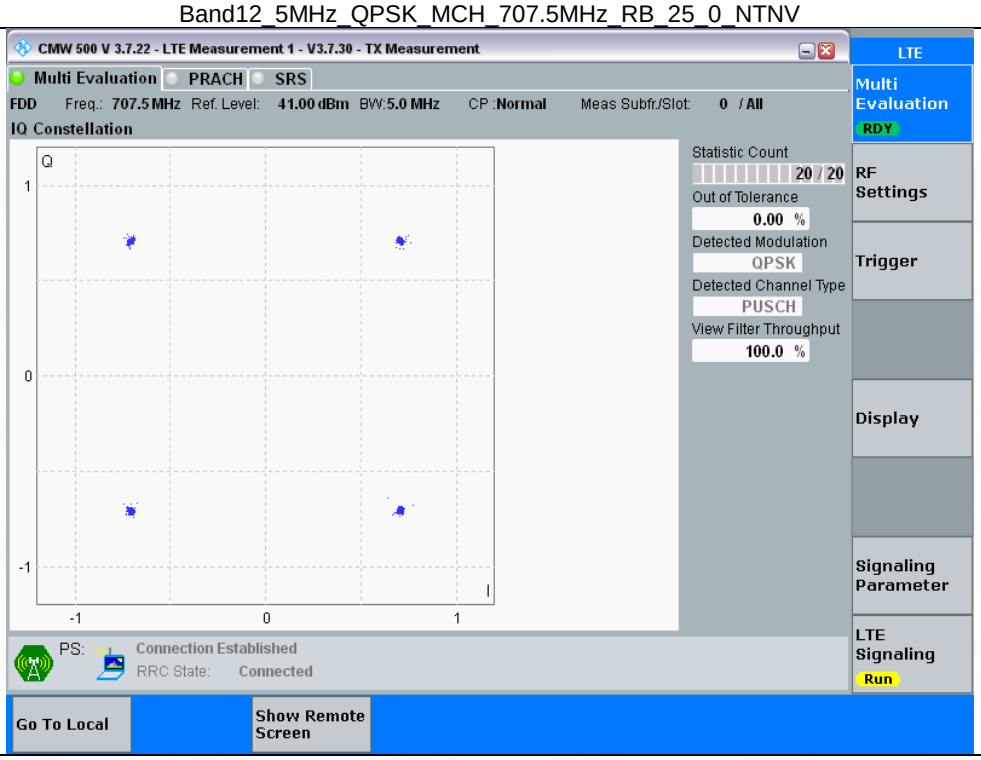
3.3 B12_5MHz

3.3.1 Test Result

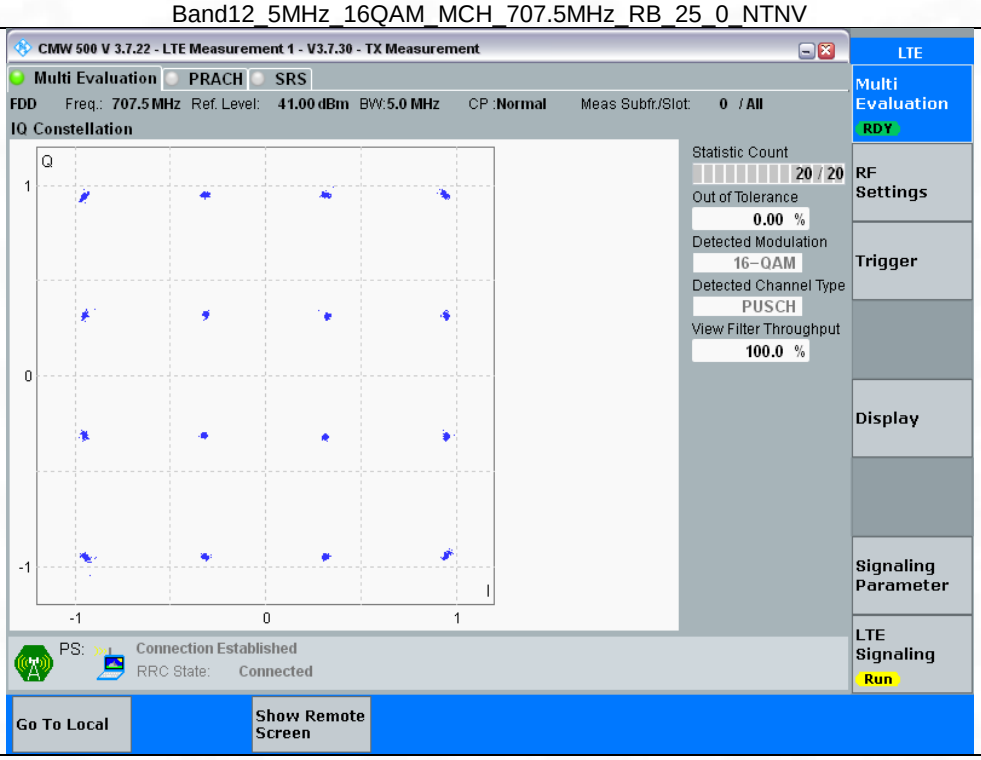
Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

3.3.2 Test Graph

Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



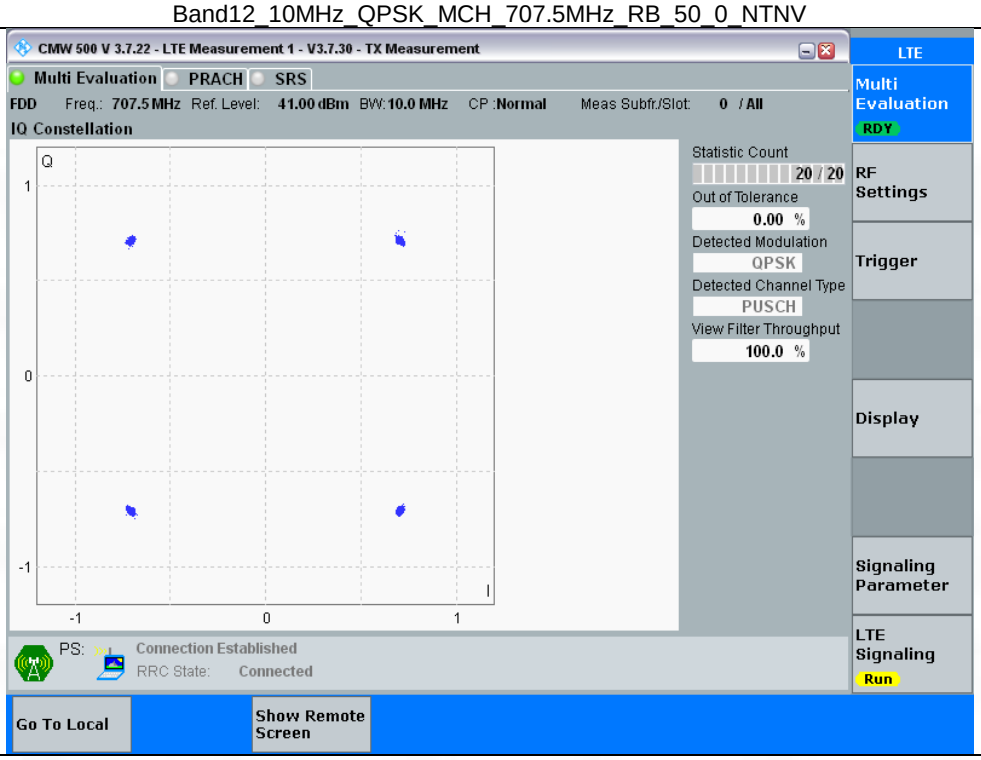
3.4 B12_10MHz

3.4.1 Test Result

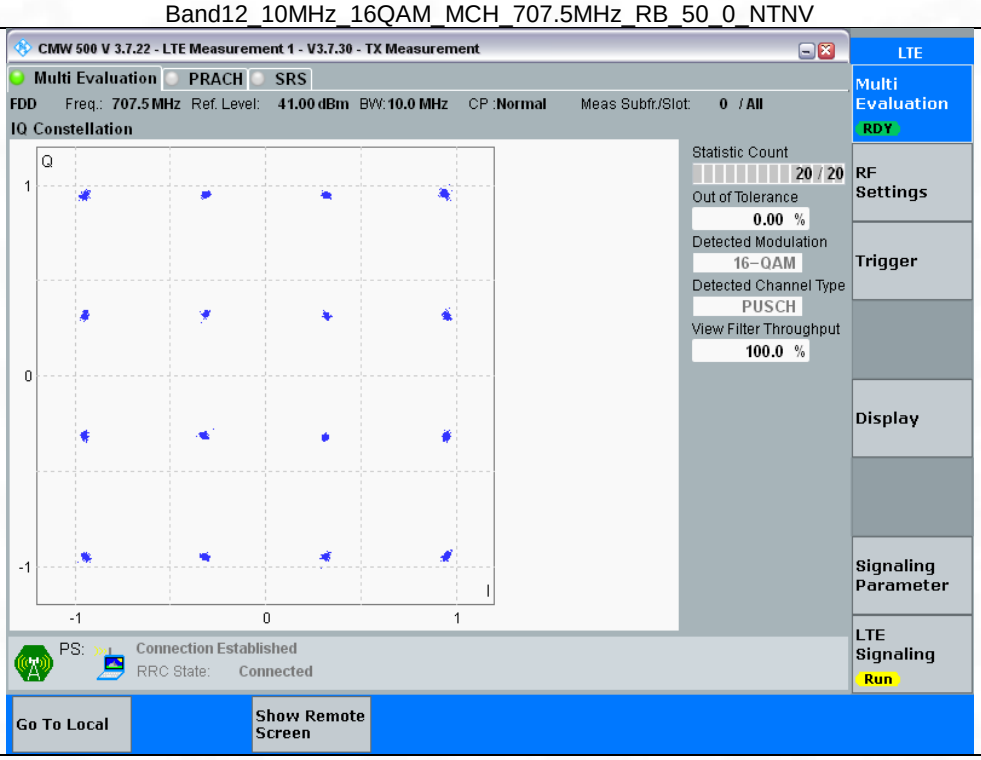
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

3.4.2 Test Graph

Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



4. 99% & 26dB Bandwidth

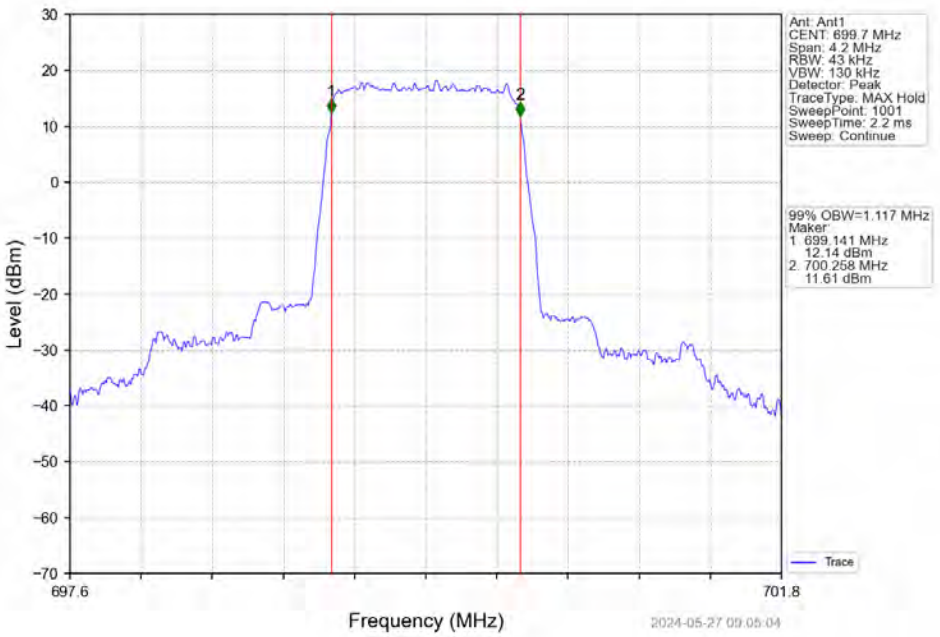
4.1 Band12_OBW

4.1.1 Test Result

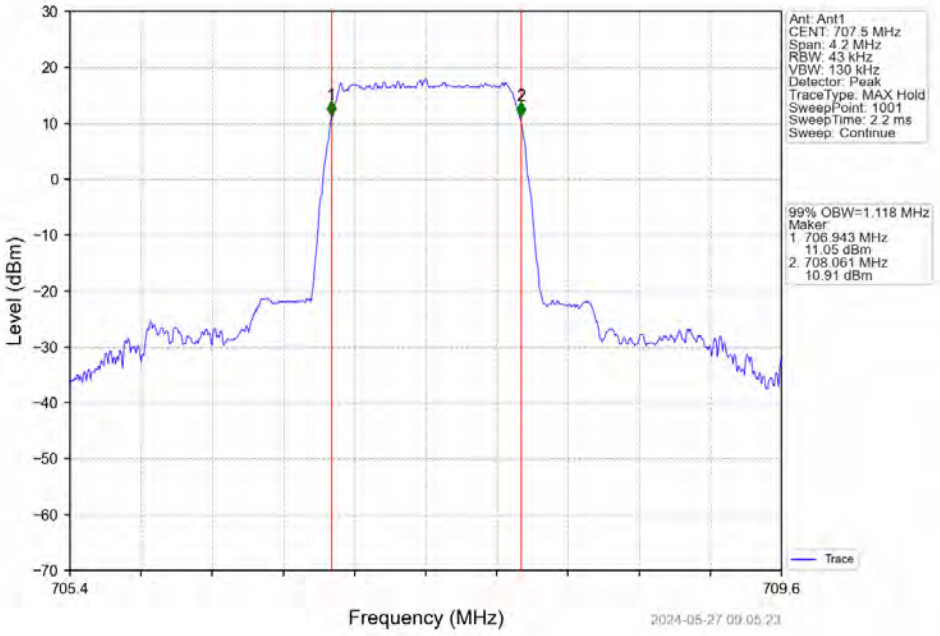
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.117	/	Pass
		707.5	6	0	1.118	/	Pass
		715.3	6	0	1.111	/	Pass
	16QAM	699.7	6	0	1.116	/	Pass
		707.5	6	0	1.119	/	Pass
		715.3	6	0	1.114	/	Pass
3	QPSK	700.5	15	0	2.748	/	Pass
		707.5	15	0	2.741	/	Pass
		714.5	15	0	2.752	/	Pass
	16QAM	700.5	15	0	2.767	/	Pass
		707.5	15	0	2.739	/	Pass
		714.5	15	0	2.761	/	Pass
5	QPSK	701.5	25	0	4.553	/	Pass
		707.5	25	0	4.530	/	Pass
		713.5	25	0	4.558	/	Pass
	16QAM	701.5	25	0	4.568	/	Pass
		707.5	25	0	4.559	/	Pass
		713.5	25	0	4.540	/	Pass
10	QPSK	704	50	0	9.116	/	Pass
		707.5	50	0	9.010	/	Pass
		711	50	0	9.050	/	Pass
	16QAM	704	50	0	9.105	/	Pass
		707.5	50	0	9.048	/	Pass
		711	50	0	9.017	/	Pass

4.1.2 Test Graph

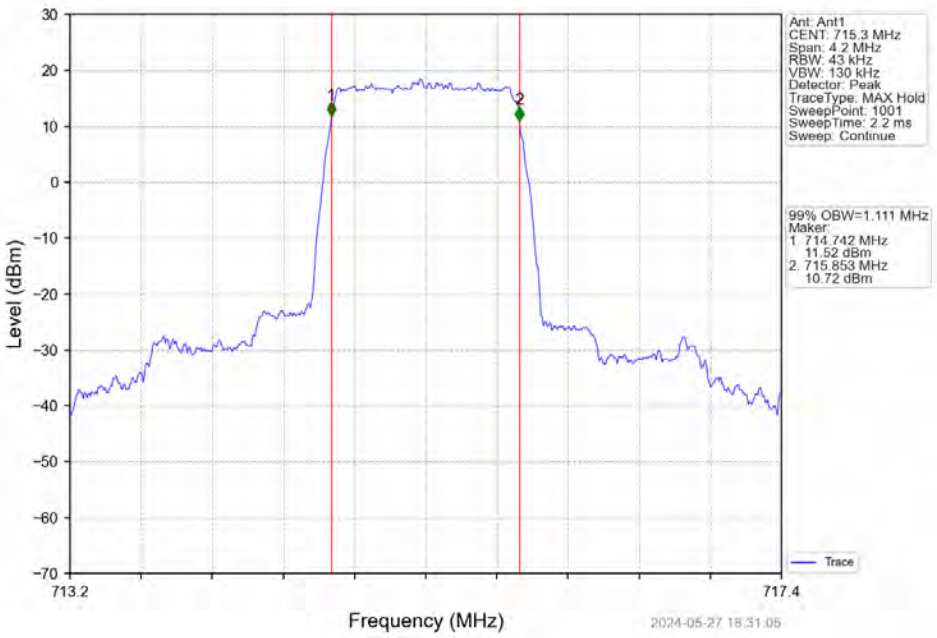
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



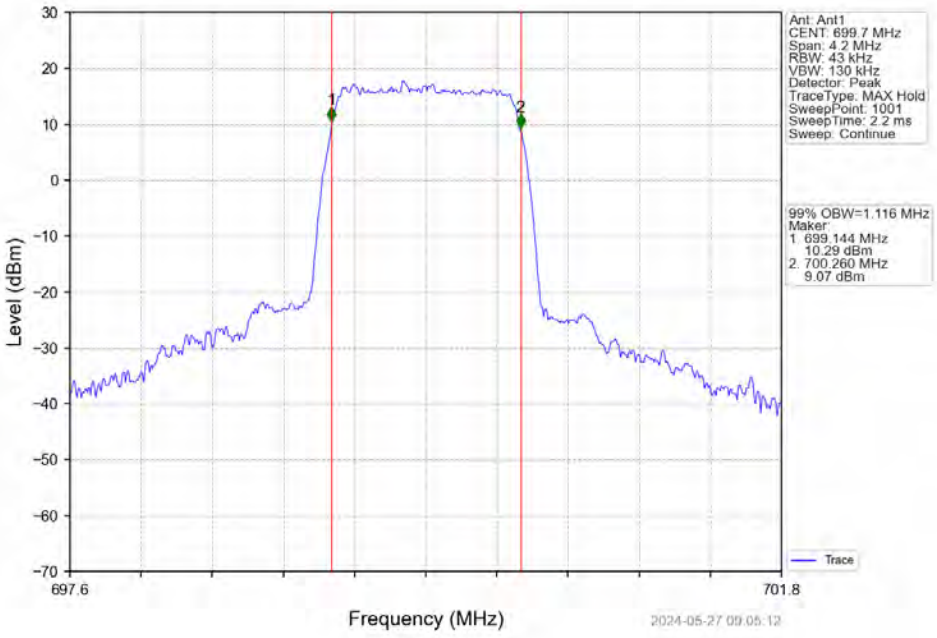
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



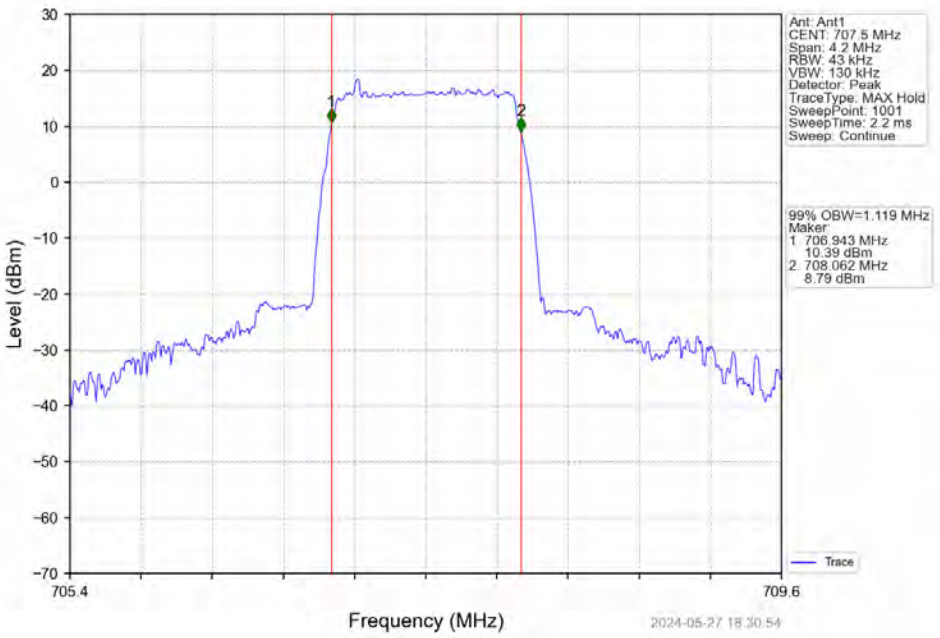
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



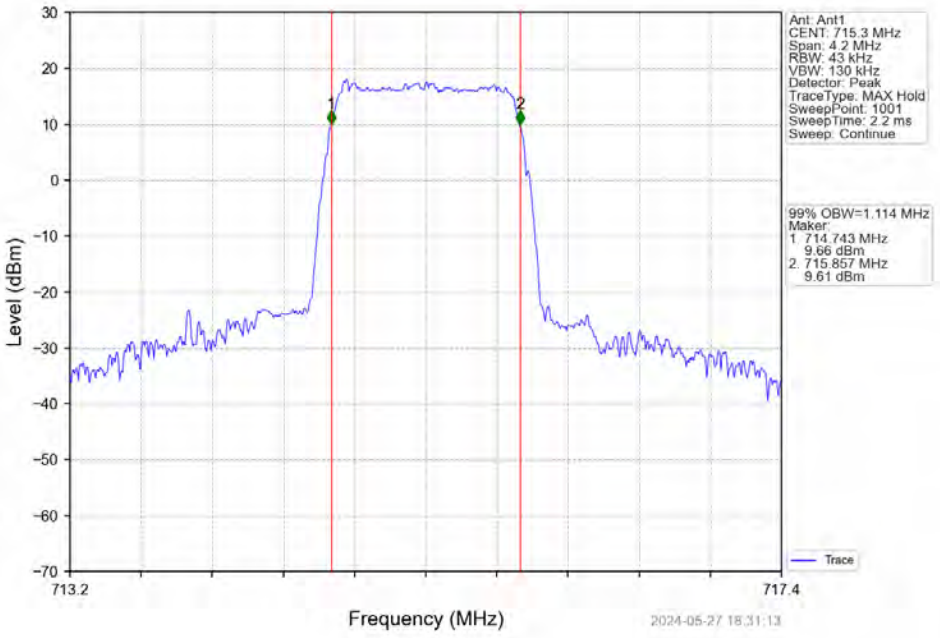
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



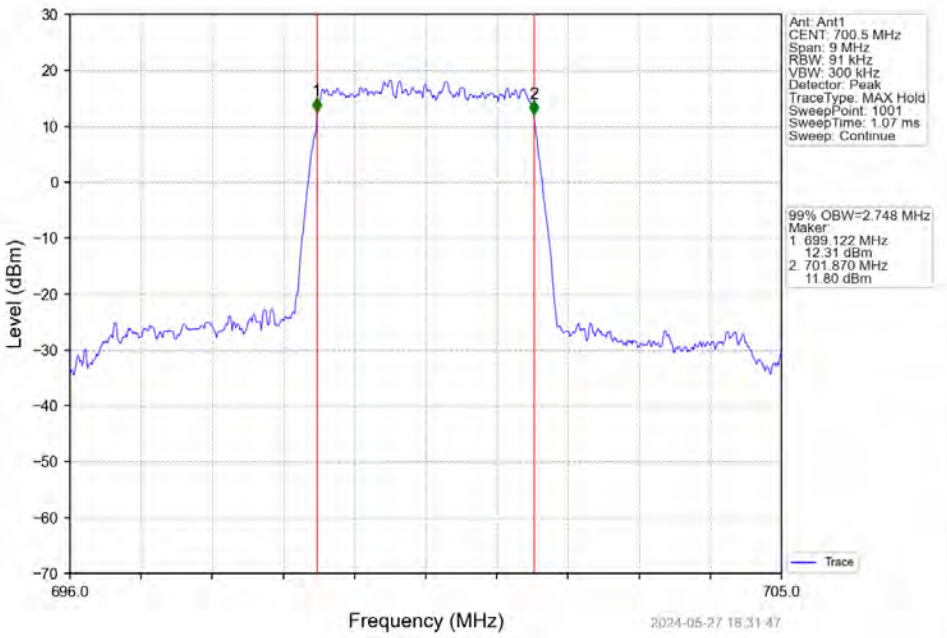
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



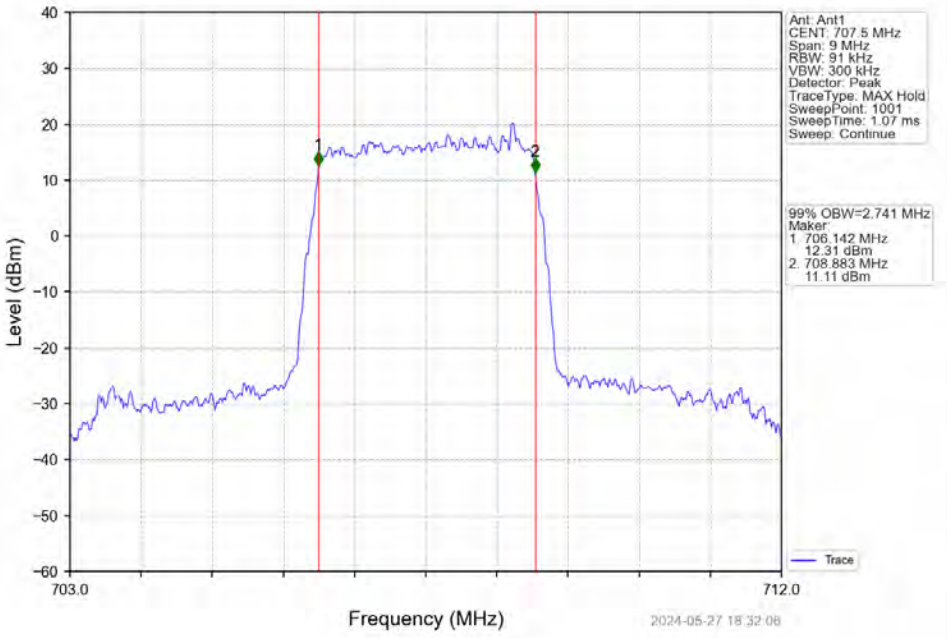
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



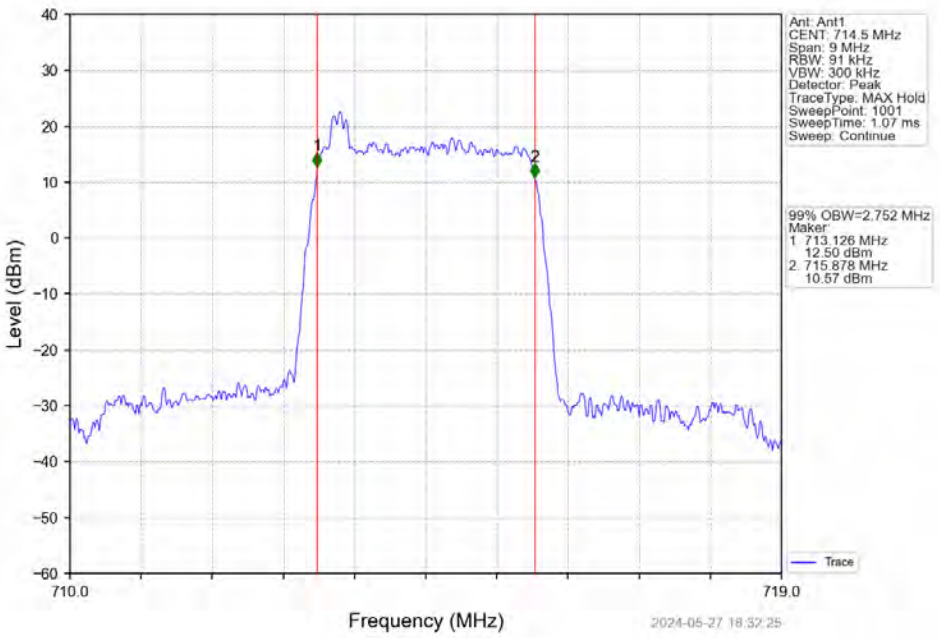
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



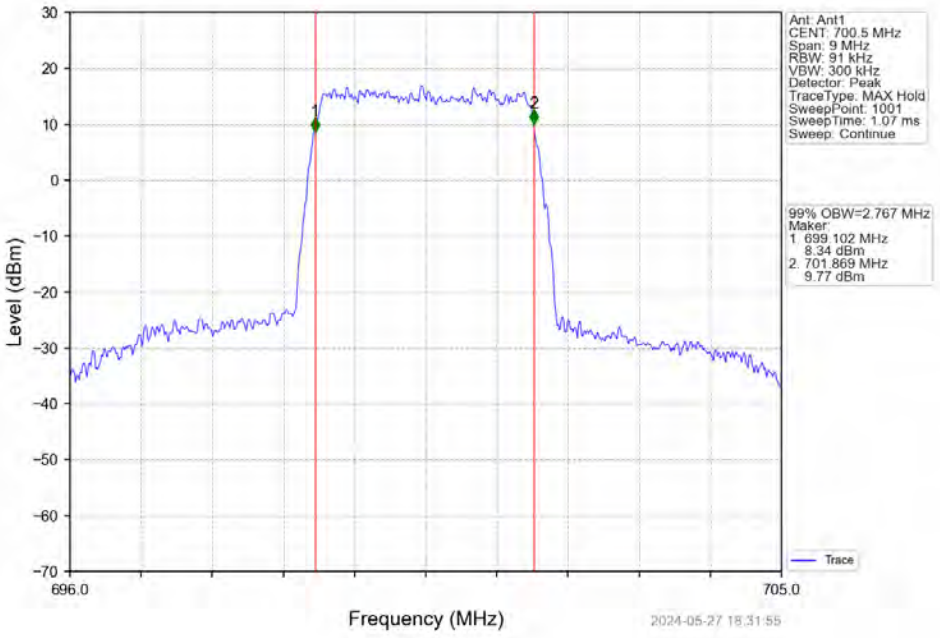
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



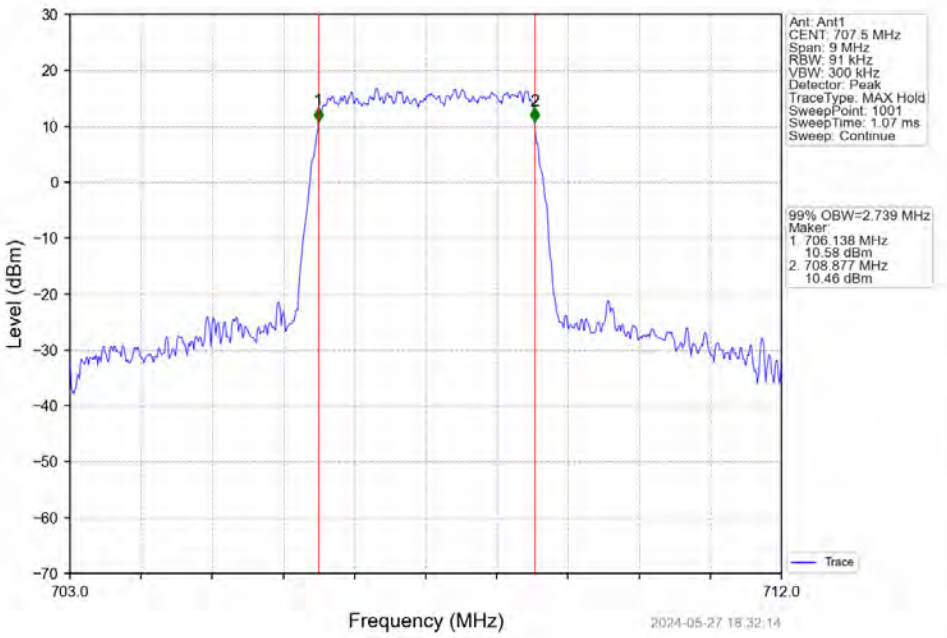
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



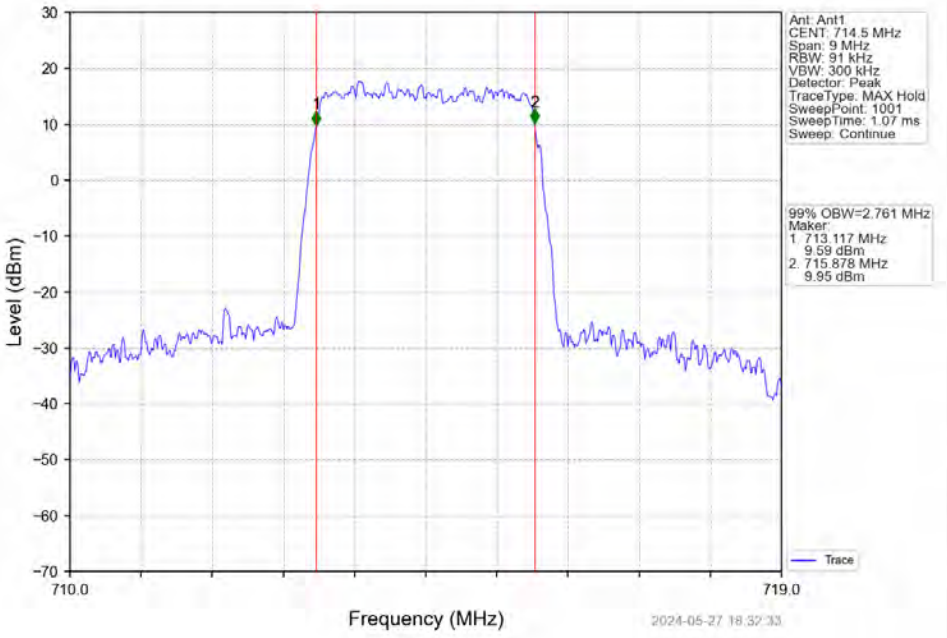
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



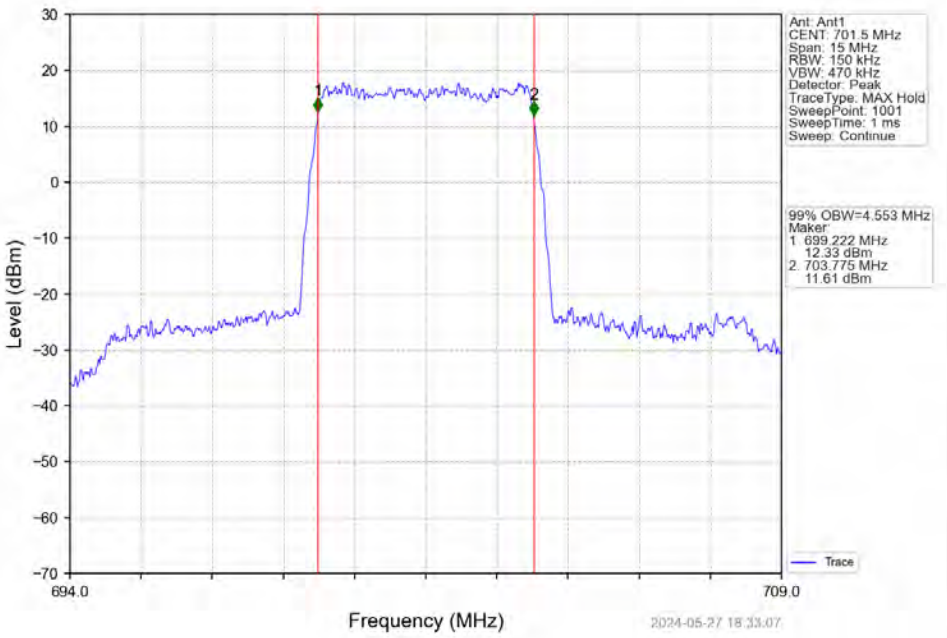
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



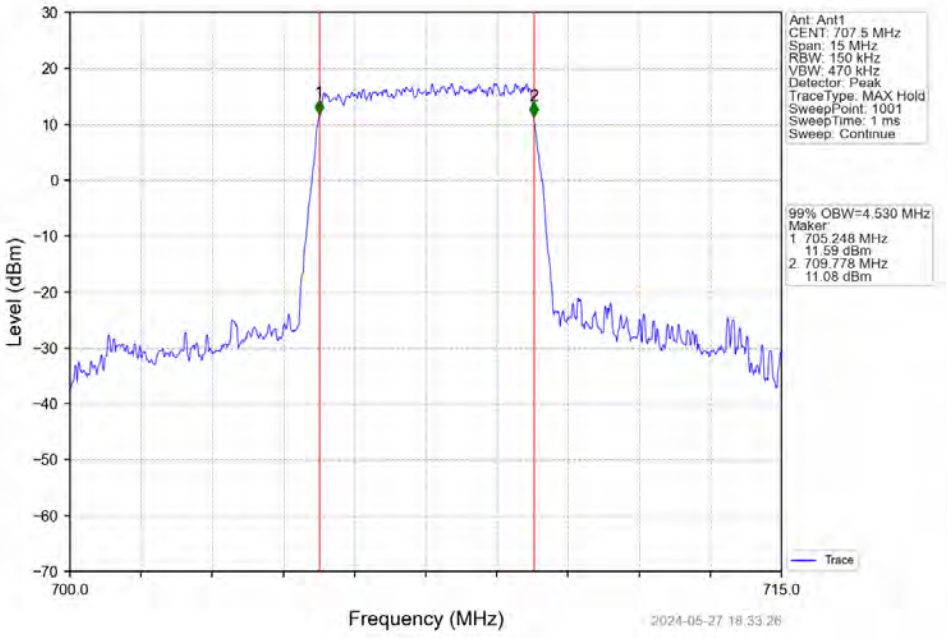
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



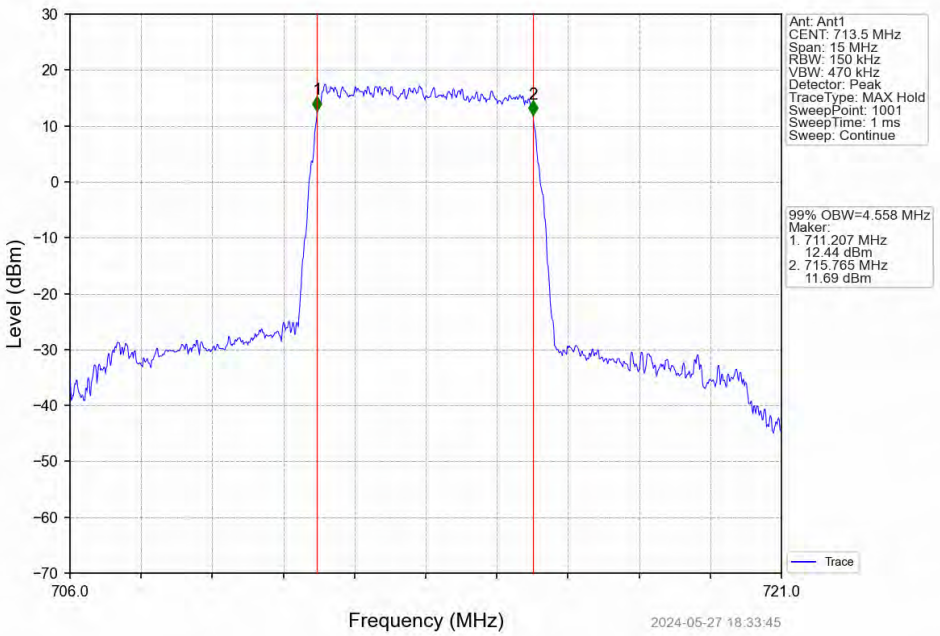
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



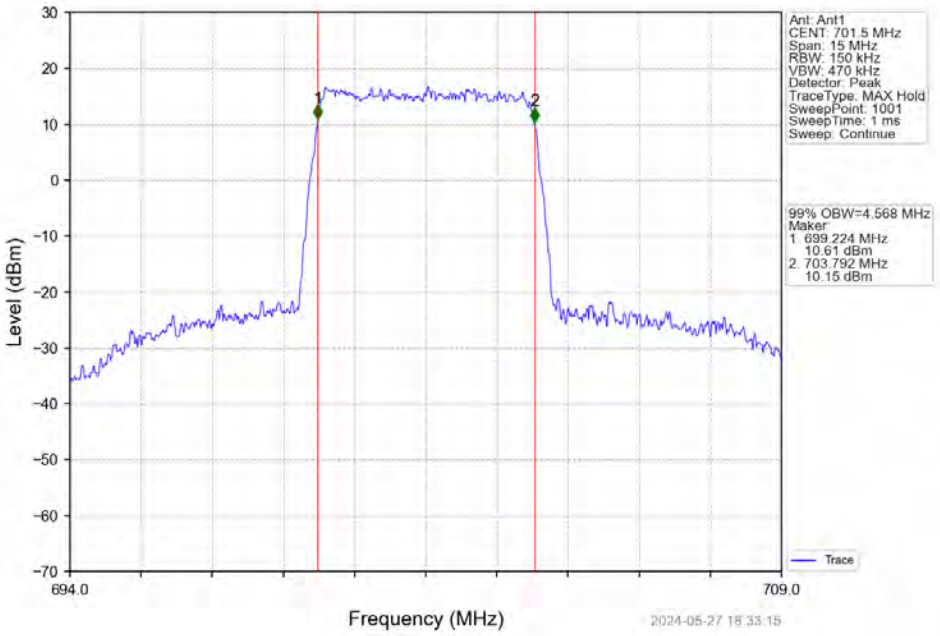
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



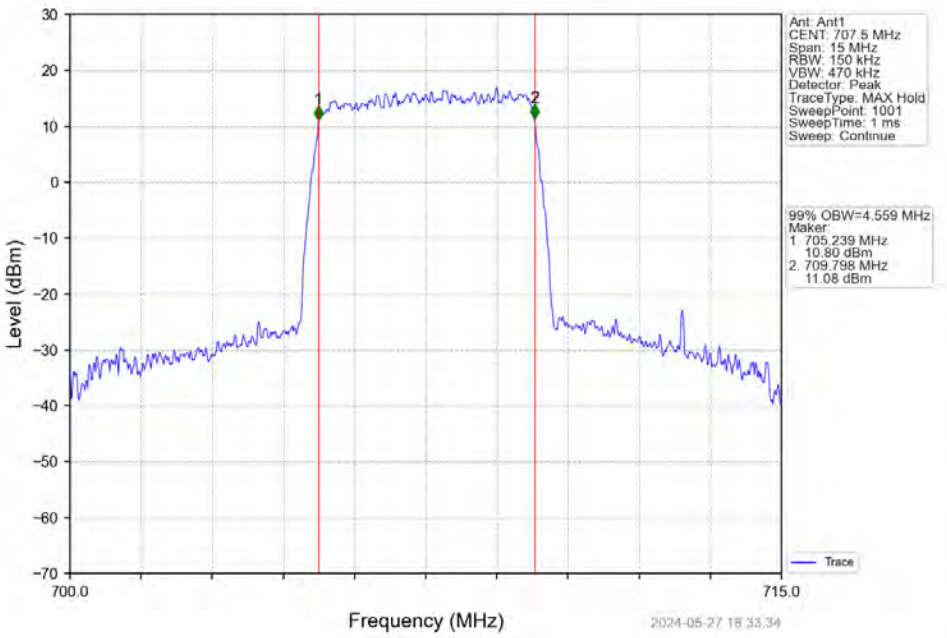
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



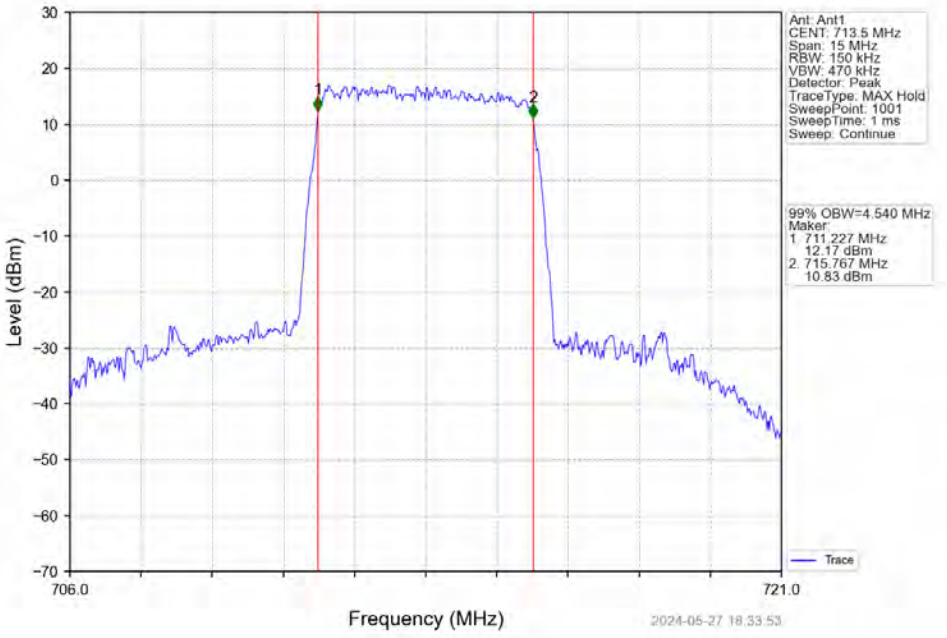
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



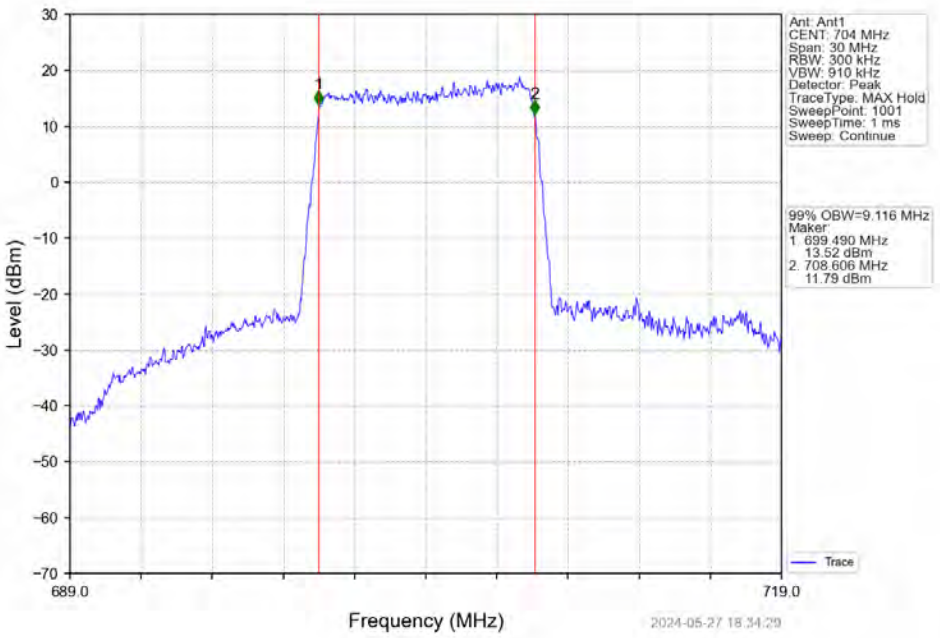
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



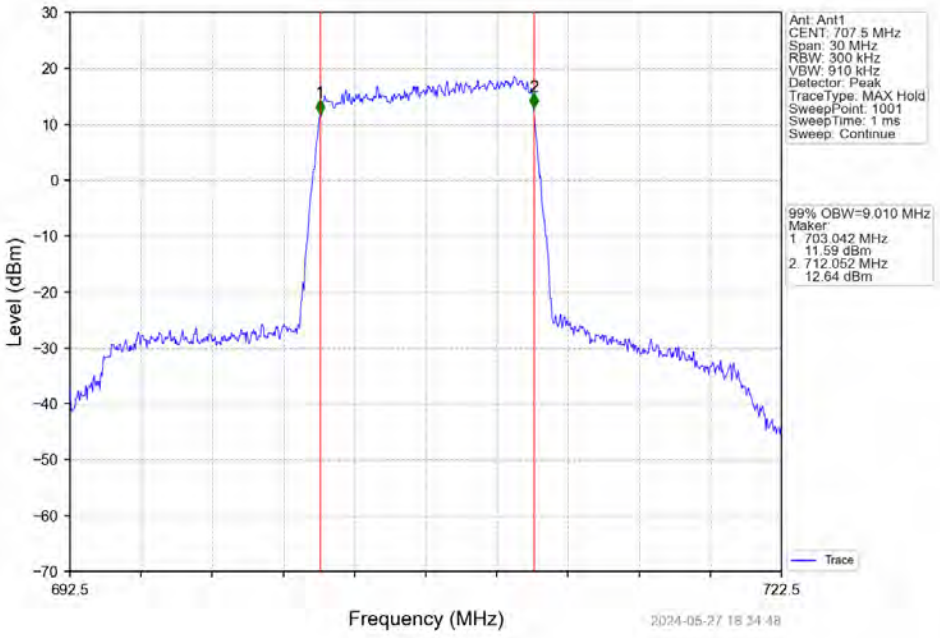
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



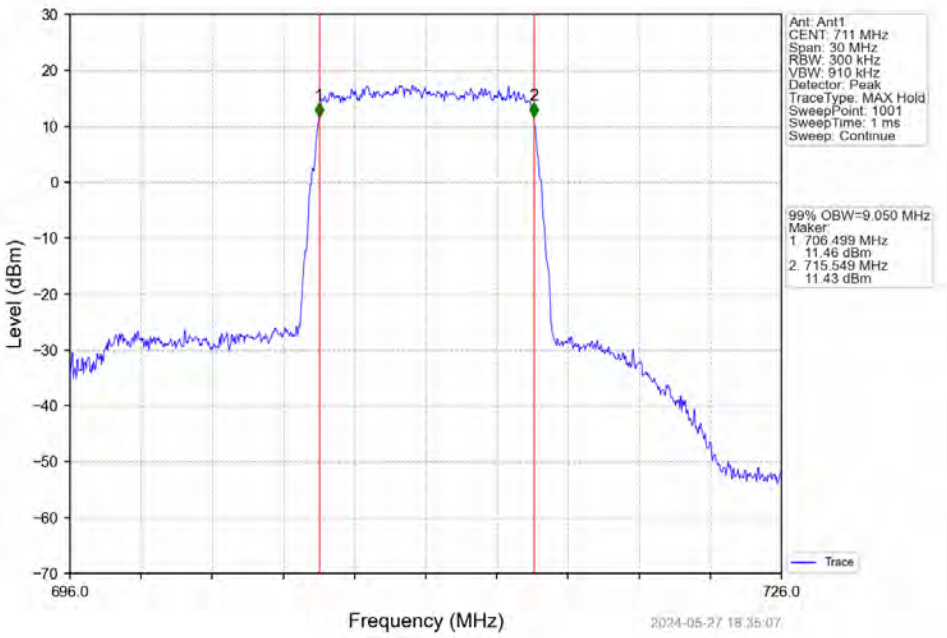
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



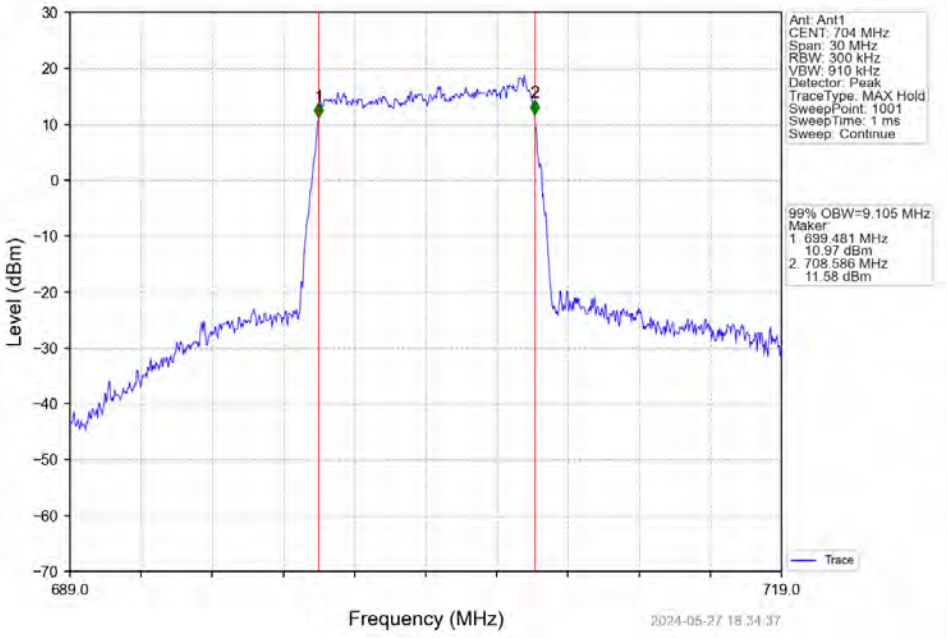
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



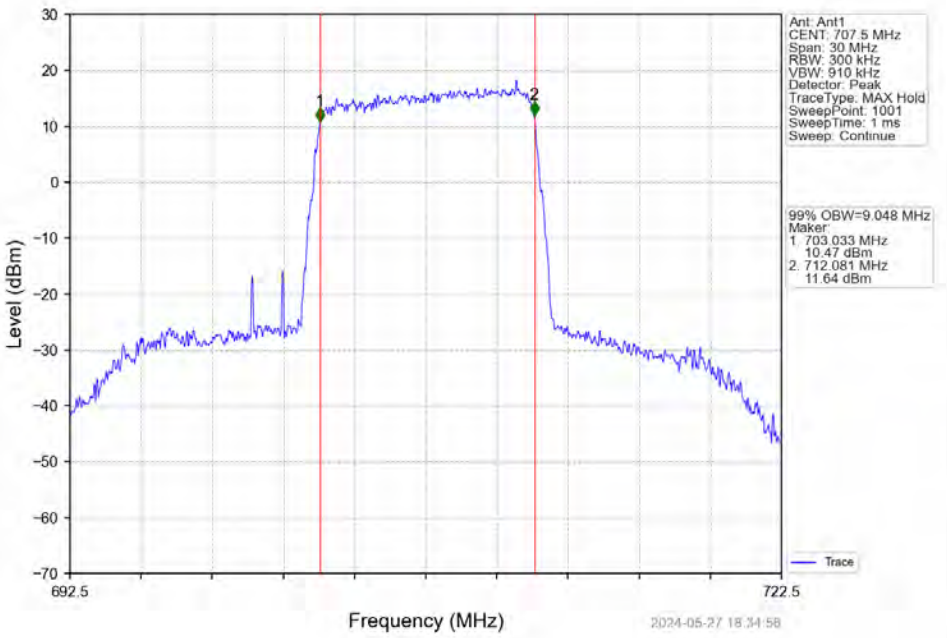
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



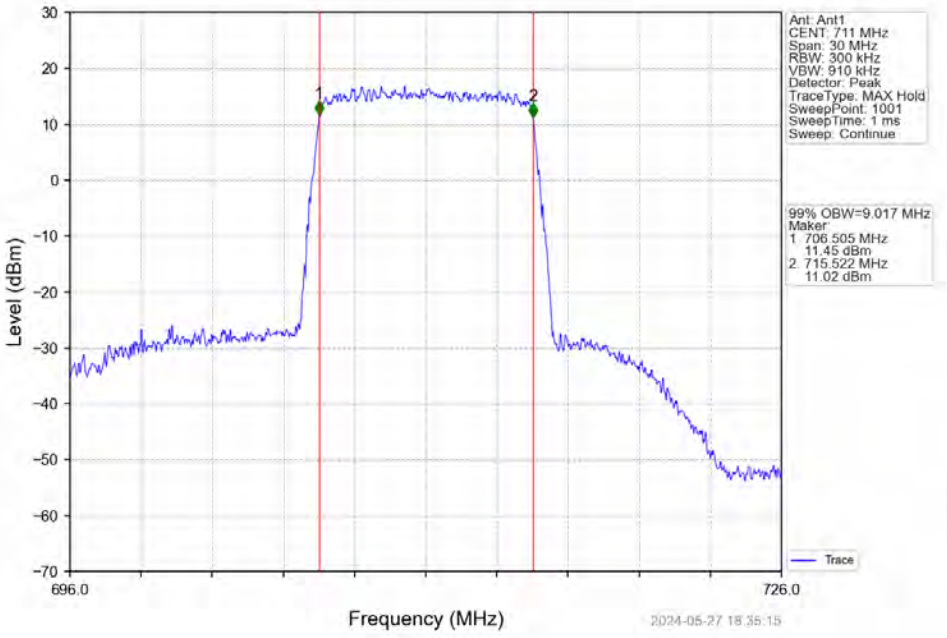
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



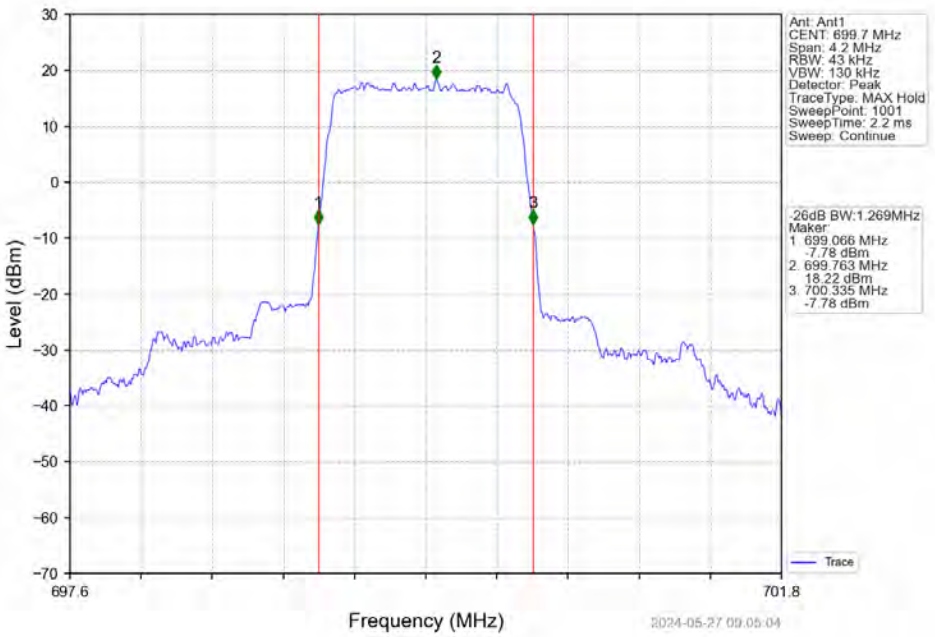
4.2 Band12_XDB

4.2.1 Test Result

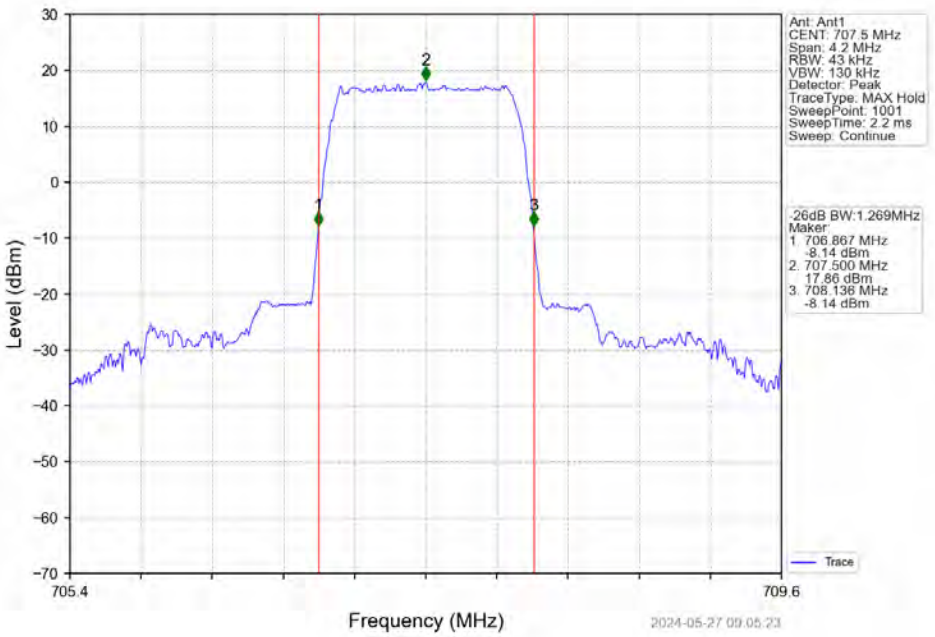
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.269	/	Pass
		707.5	6	0	1.269	/	Pass
		715.3	6	0	1.270	/	Pass
	16QAM	699.7	6	0	1.280	/	Pass
		707.5	6	0	1.277	/	Pass
		715.3	6	0	1.277	/	Pass
3	QPSK	700.5	15	0	3.082	/	Pass
		707.5	15	0	3.082	/	Pass
		714.5	15	0	3.040	/	Pass
	16QAM	700.5	15	0	3.120	/	Pass
		707.5	15	0	3.095	/	Pass
		714.5	15	0	3.103	/	Pass
5	QPSK	701.5	25	0	5.051	/	Pass
		707.5	25	0	5.039	/	Pass
		713.5	25	0	5.054	/	Pass
	16QAM	701.5	25	0	5.088	/	Pass
		707.5	25	0	5.080	/	Pass
		713.5	25	0	5.056	/	Pass
10	QPSK	704	50	0	10.032	/	Pass
		707.5	50	0	9.955	/	Pass
		711	50	0	9.997	/	Pass
	16QAM	704	50	0	10.075	/	Pass
		707.5	50	0	9.997	/	Pass
		711	50	0	10.057	/	Pass

4.2.2 Test Graph

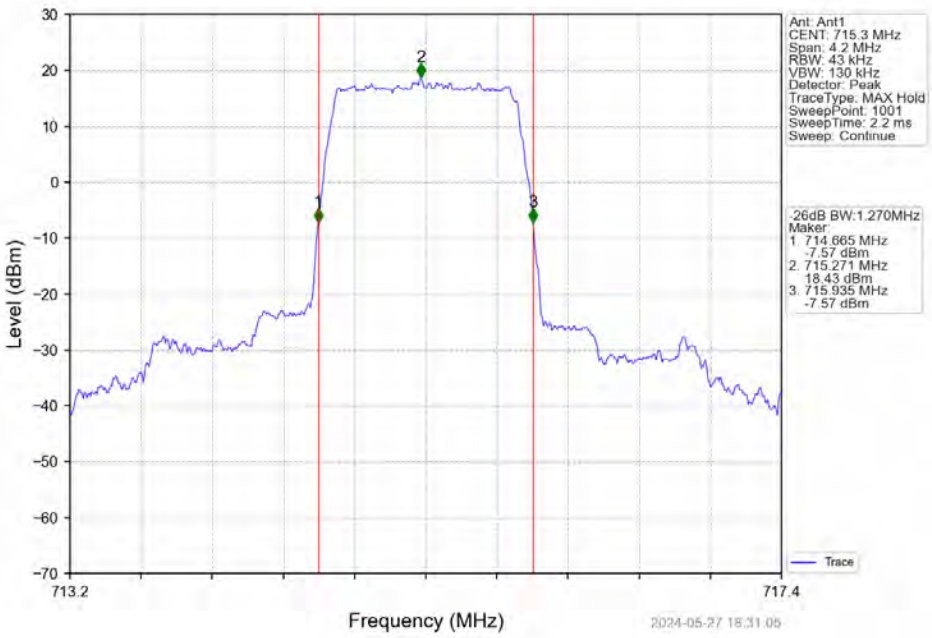
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



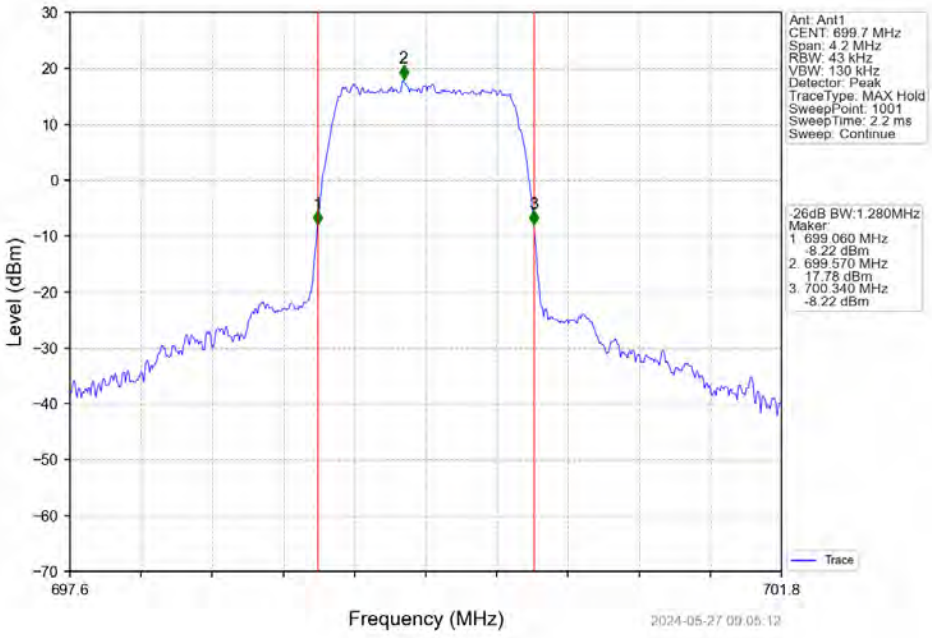
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



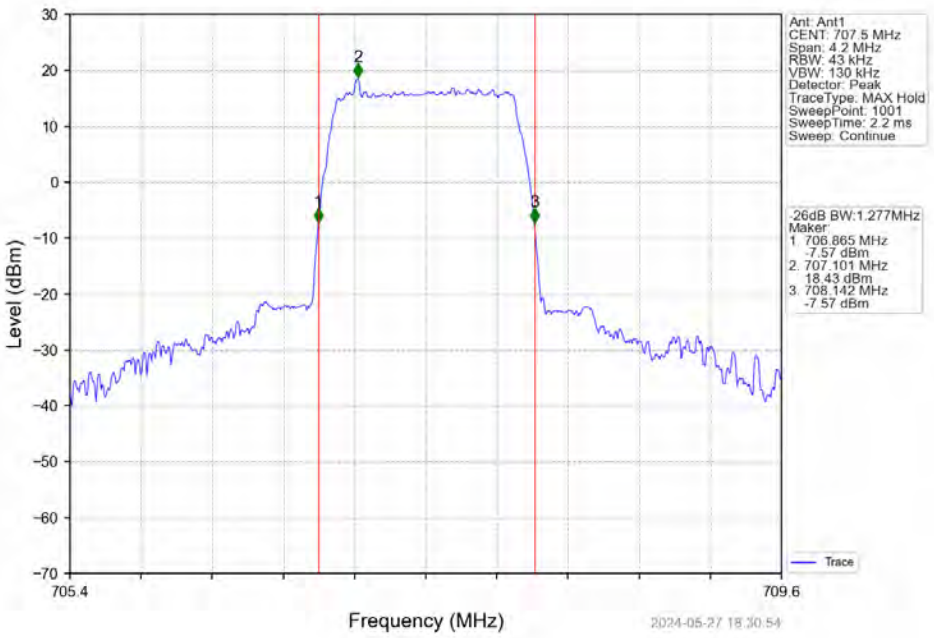
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



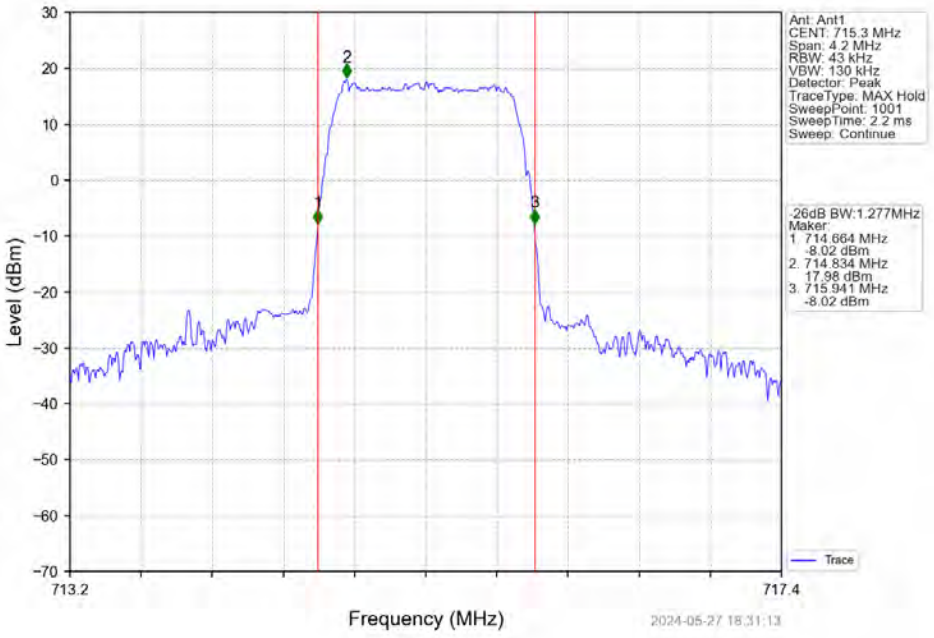
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



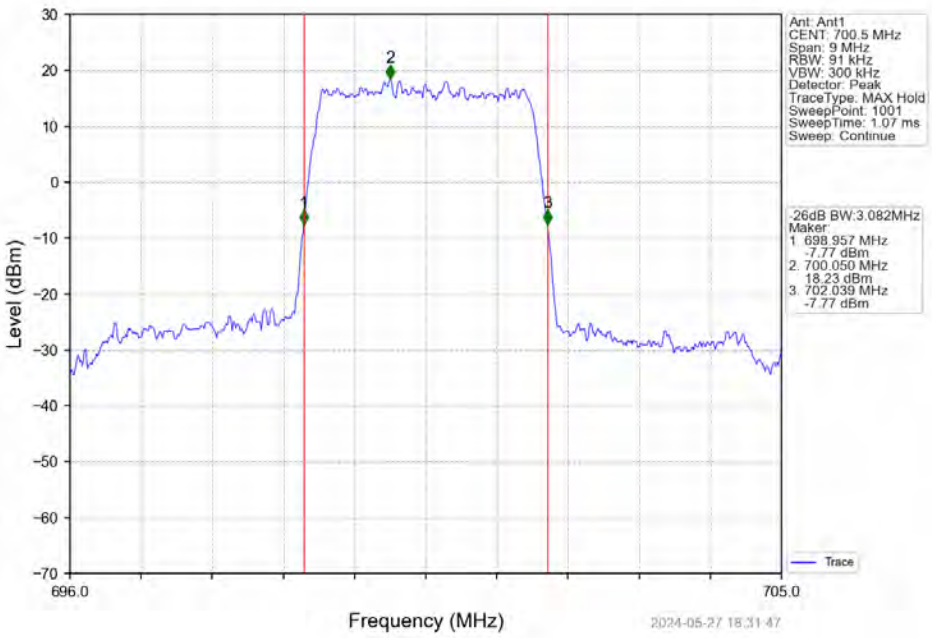
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



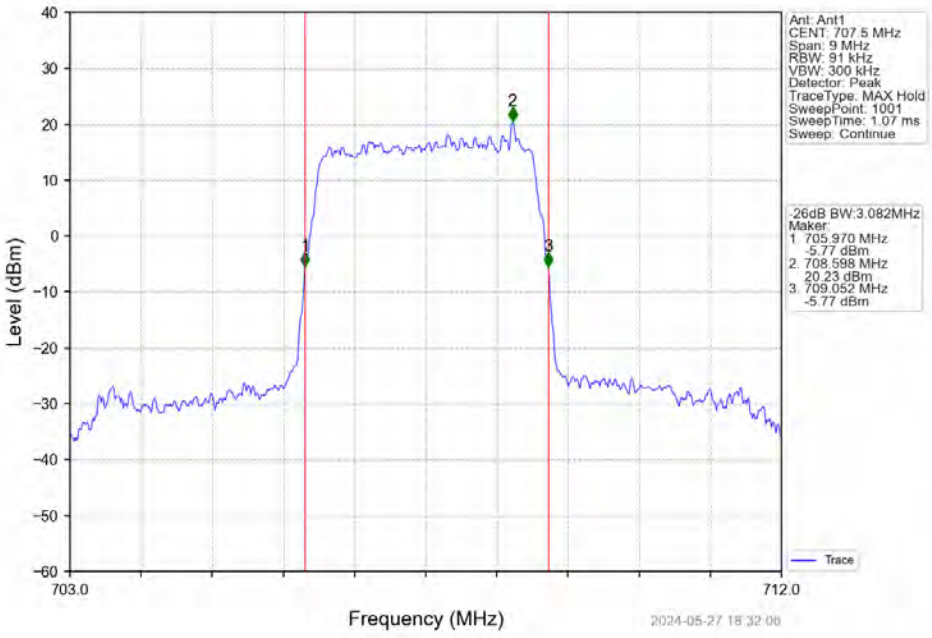
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV

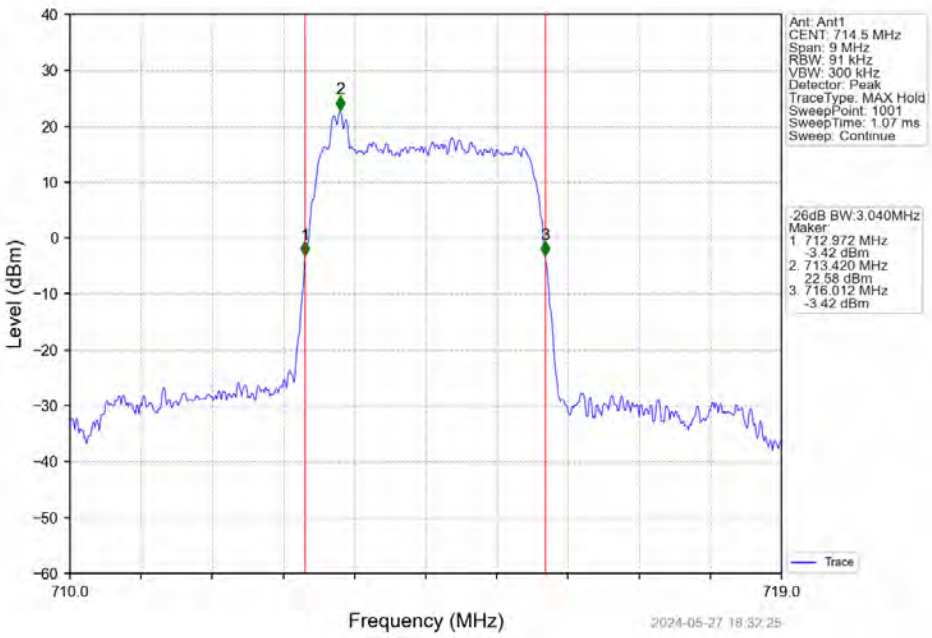


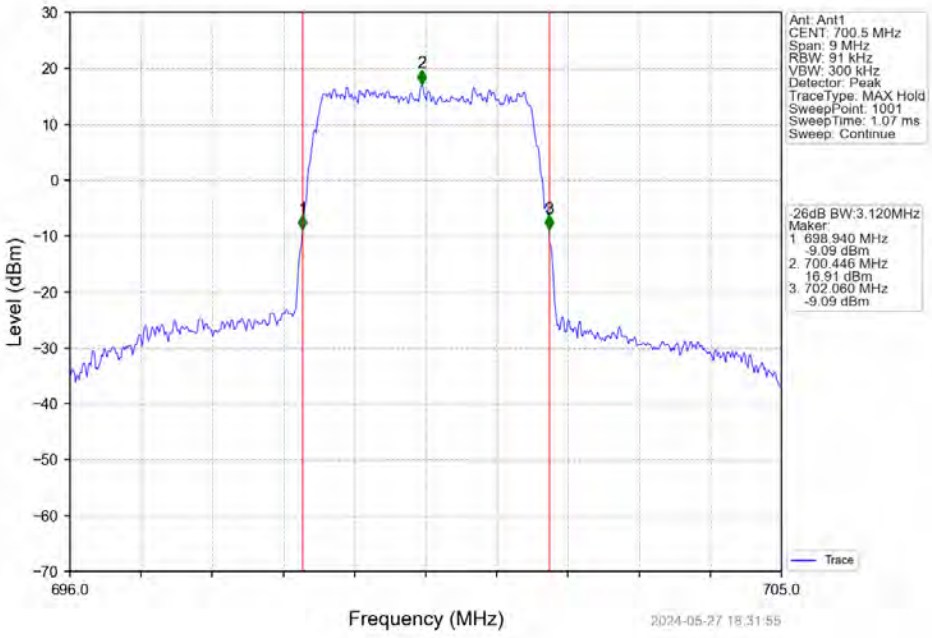
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



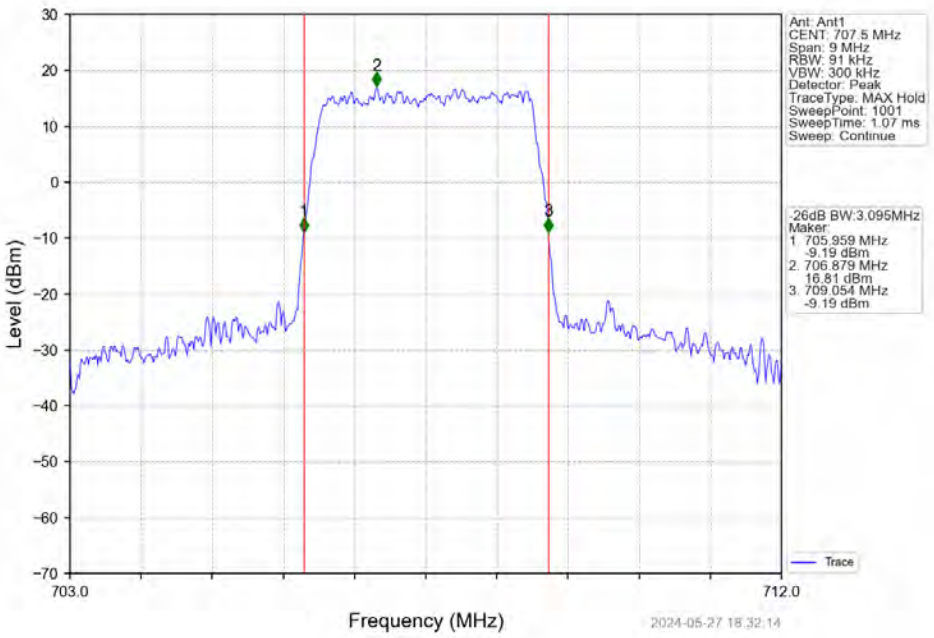
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



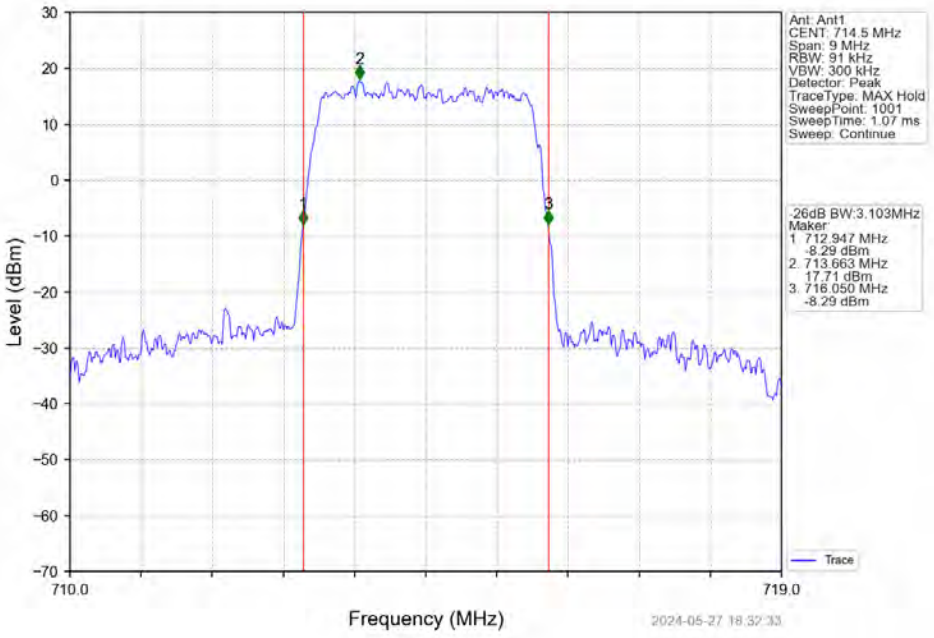
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV


Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV


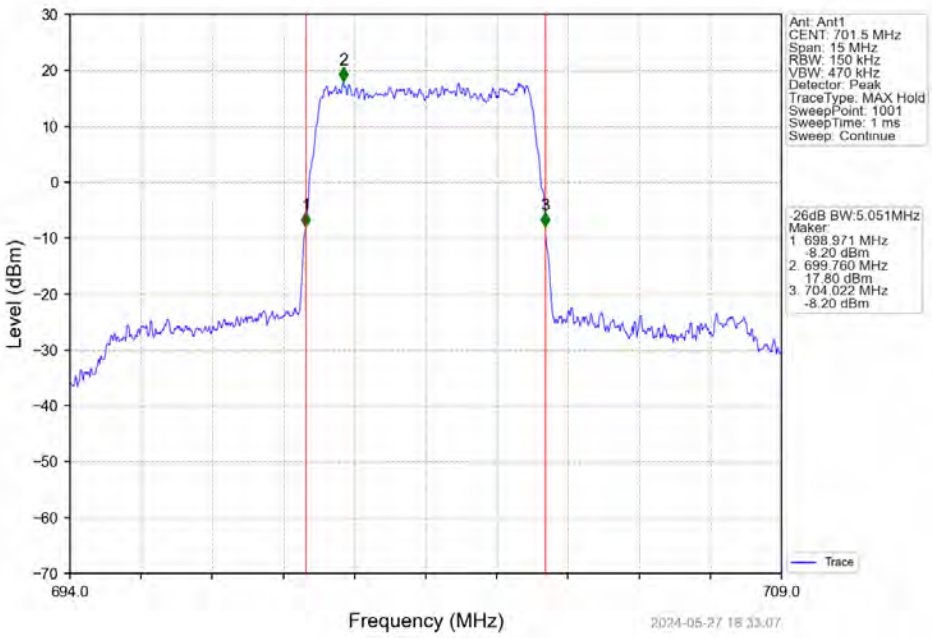
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



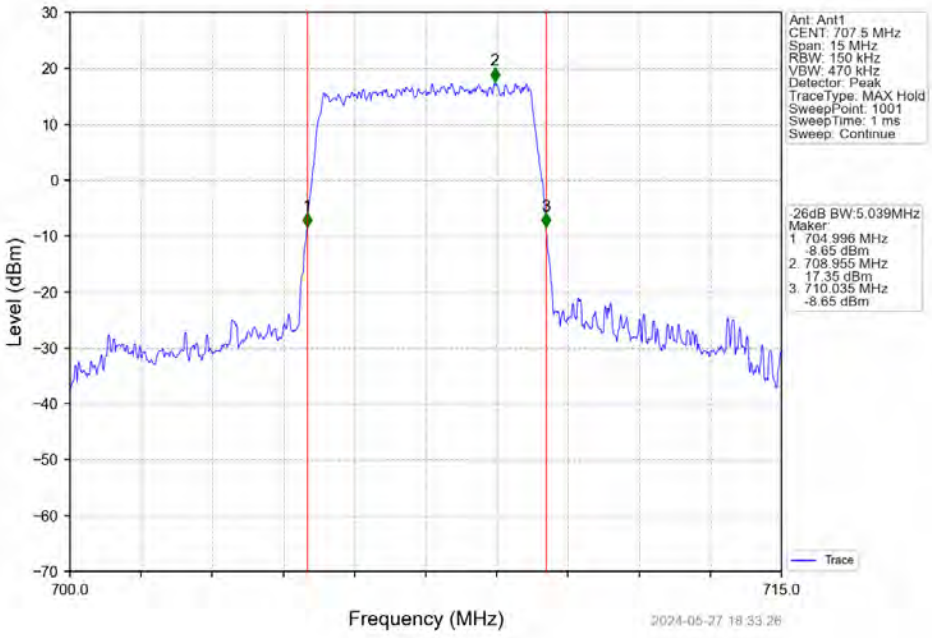
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



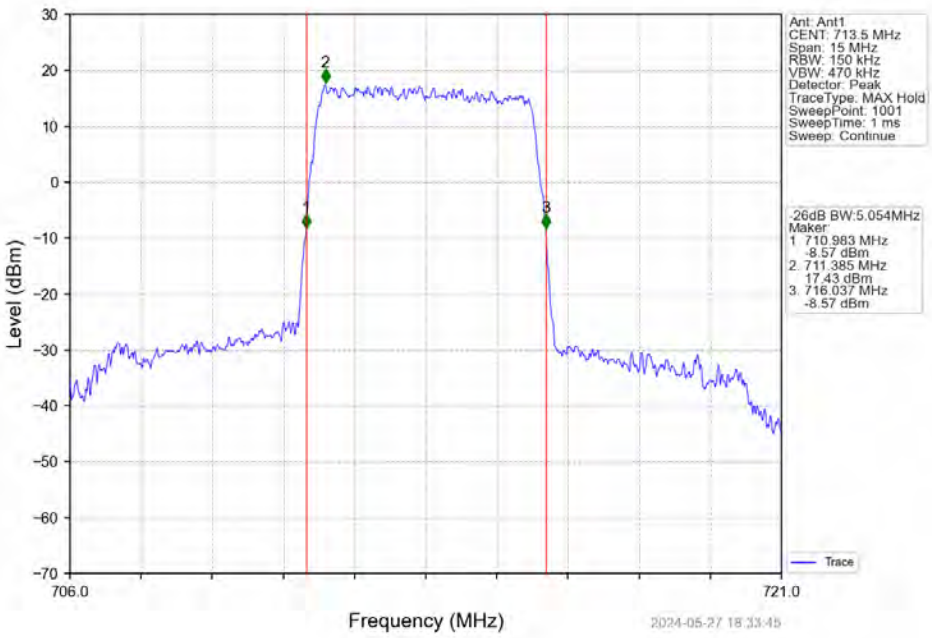
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



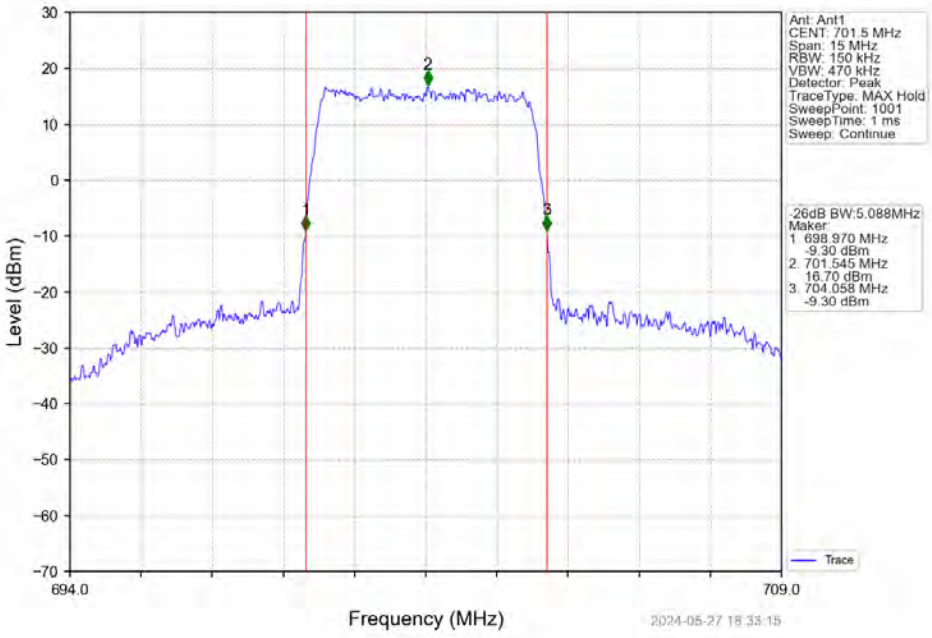
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



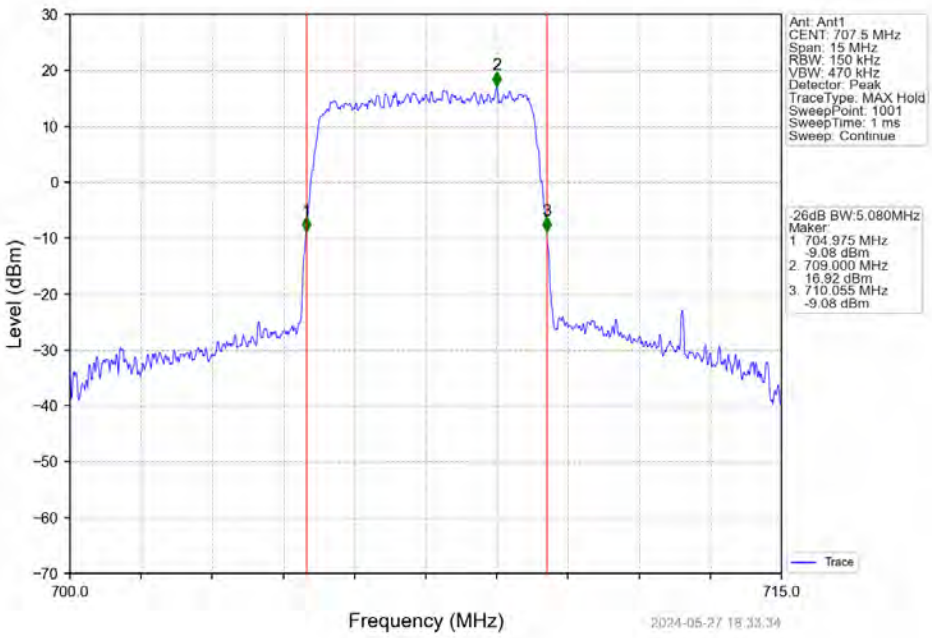
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



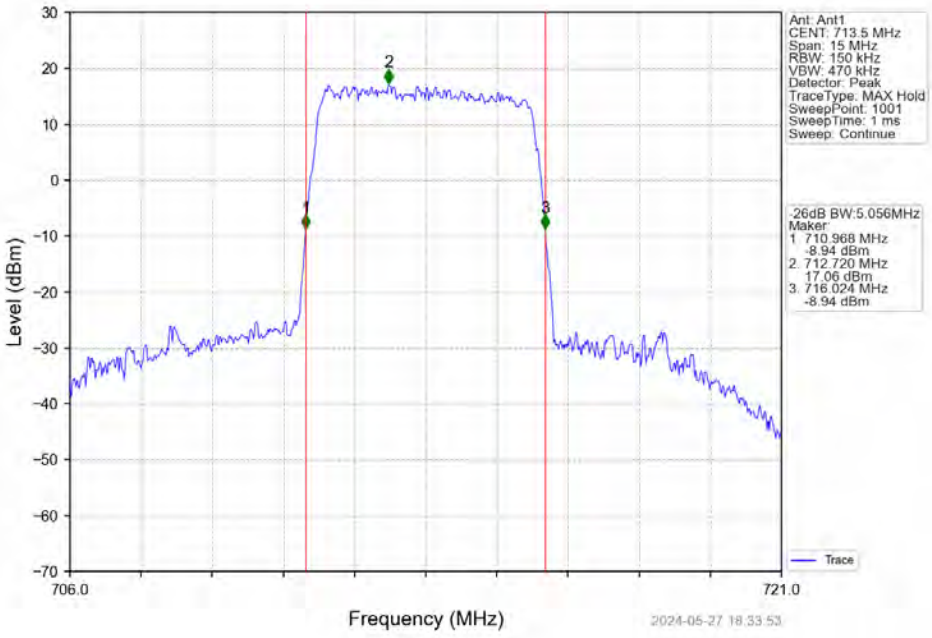
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



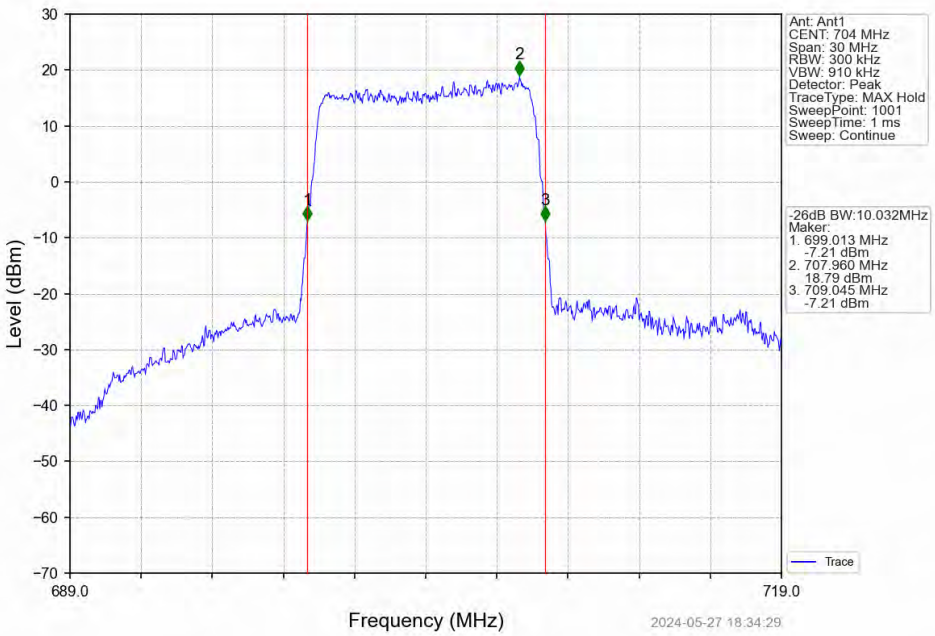
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



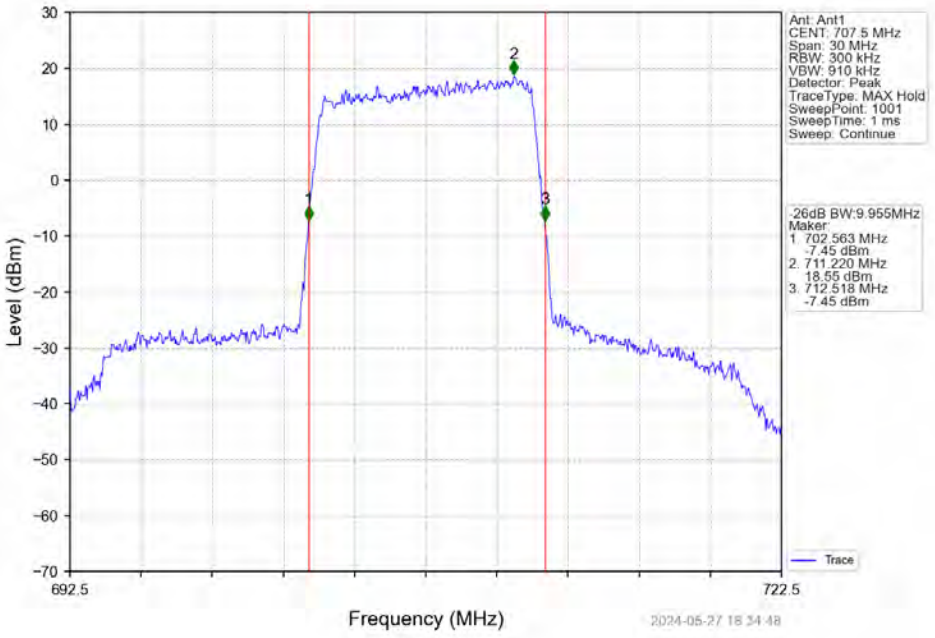
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



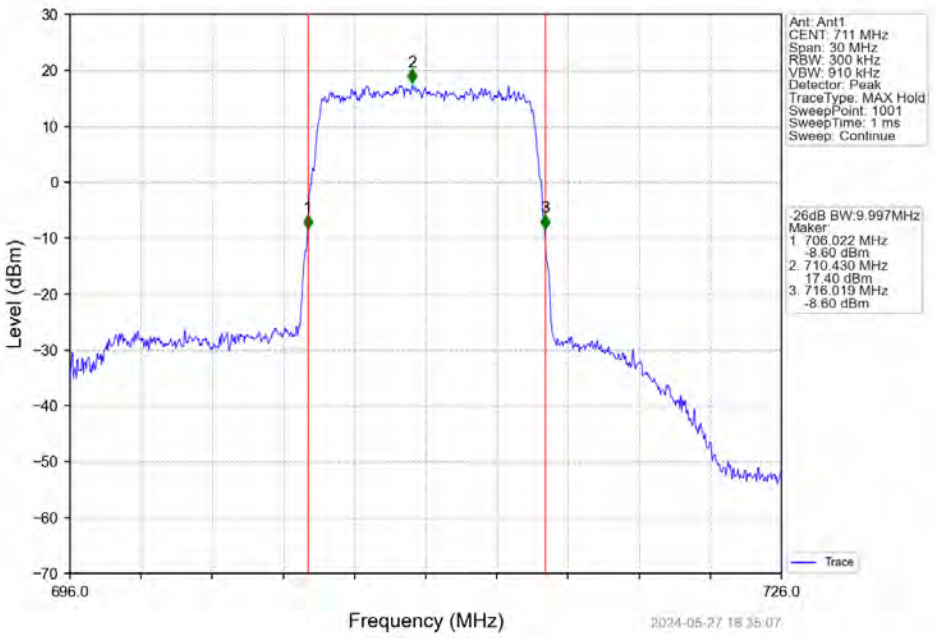
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



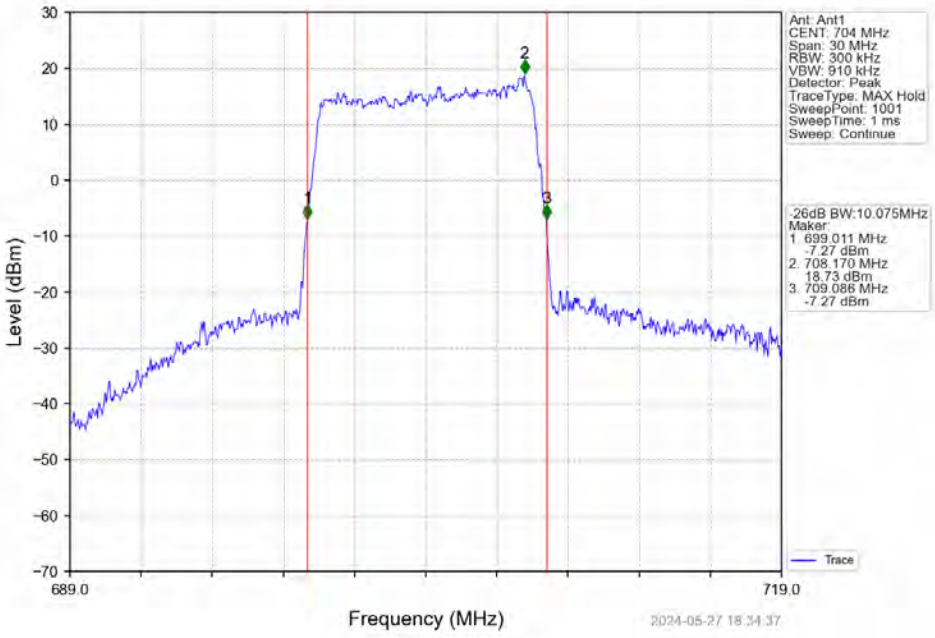
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



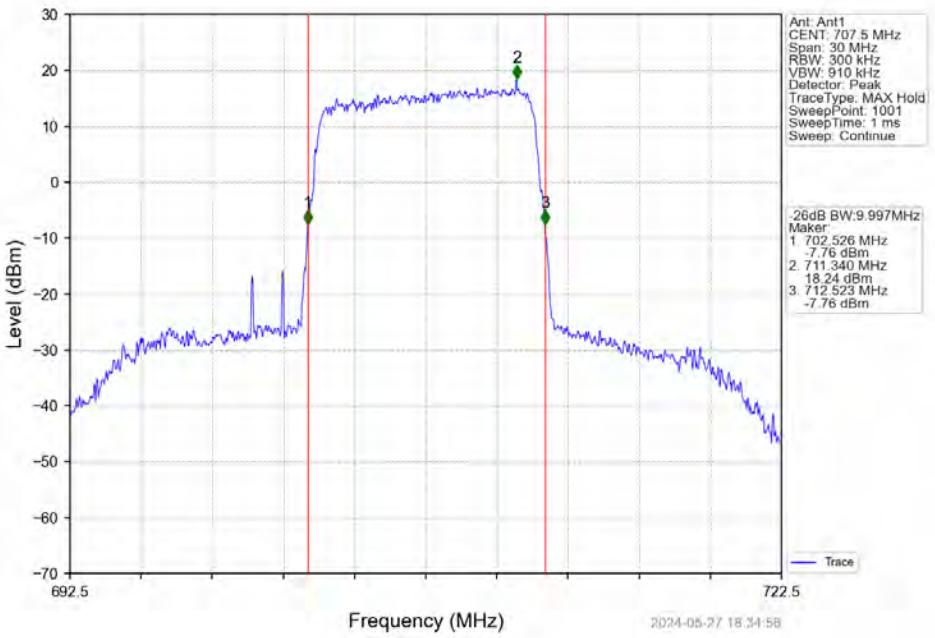
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



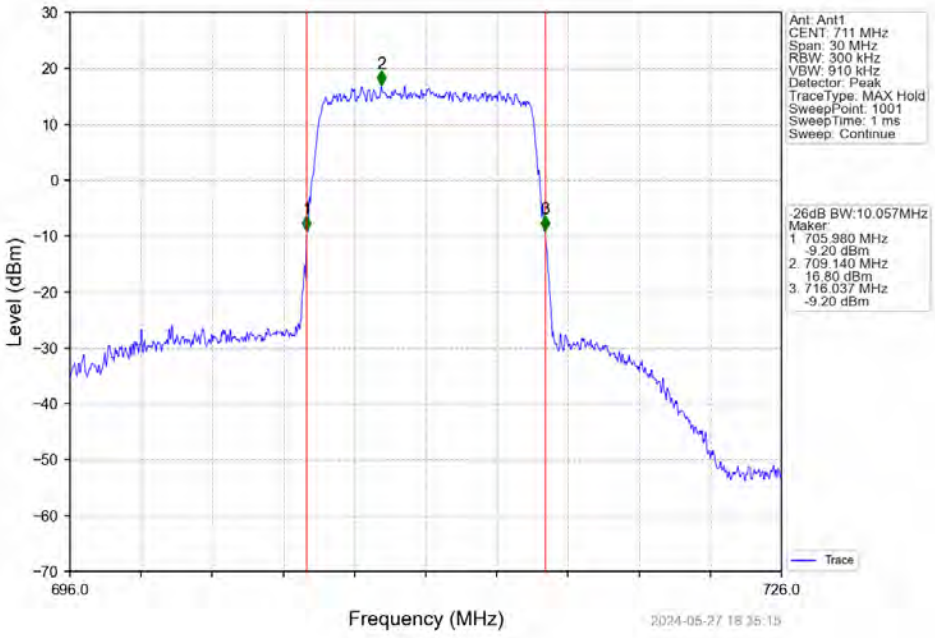
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



5. Peak-Average Ratio

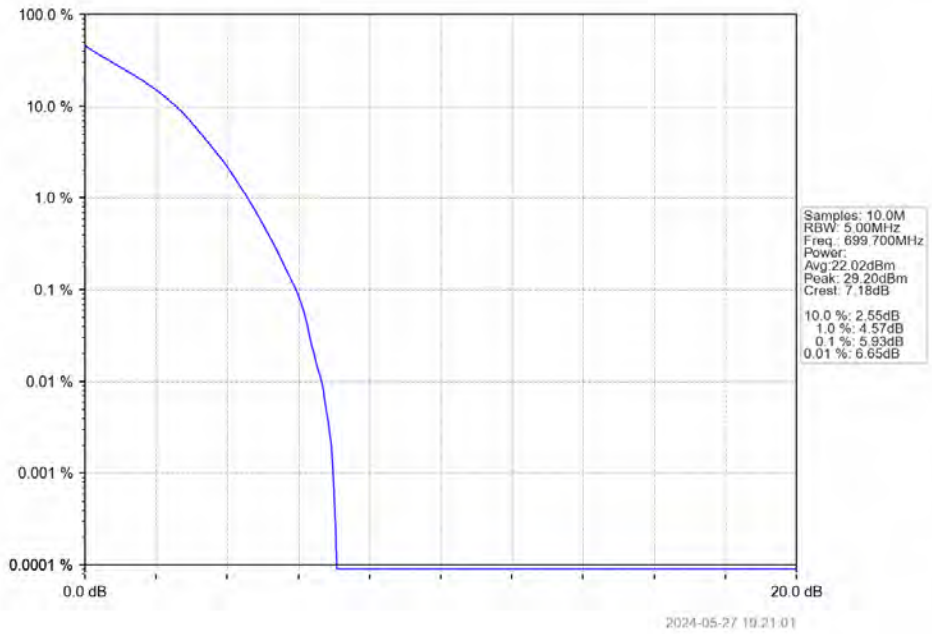
5.1 B12_1.4MHz

5.1.1 Test Result

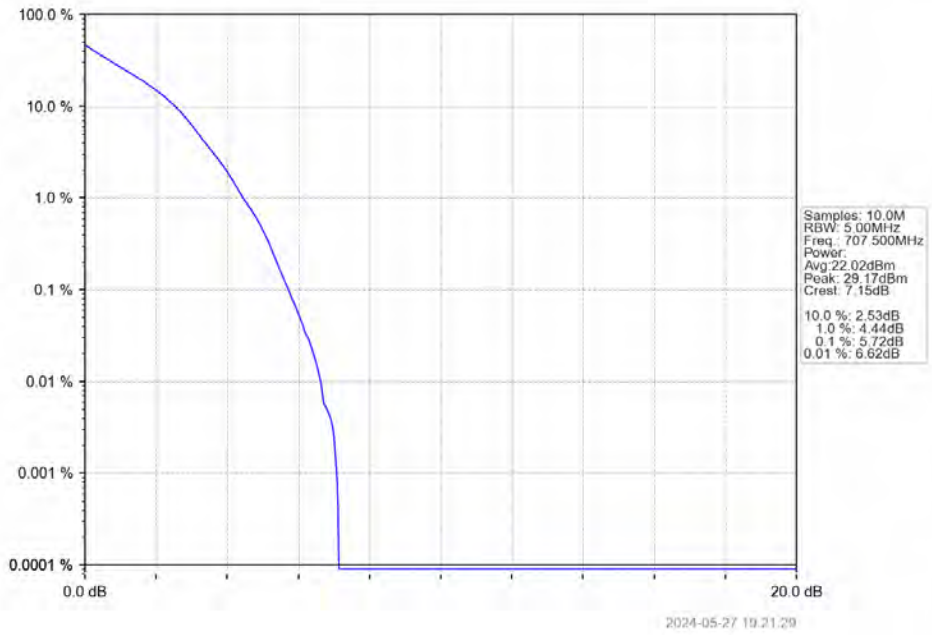
Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	5.93	<=13	Pass
	707.5	6	0	5.72	<=13	Pass
	715.3	6	0	5.80	<=13	Pass
16QAM	699.7	6	0	6.58	<=13	Pass
	707.5	6	0	6.59	<=13	Pass
	715.3	6	0	6.48	<=13	Pass

5.1.2 Test Graph

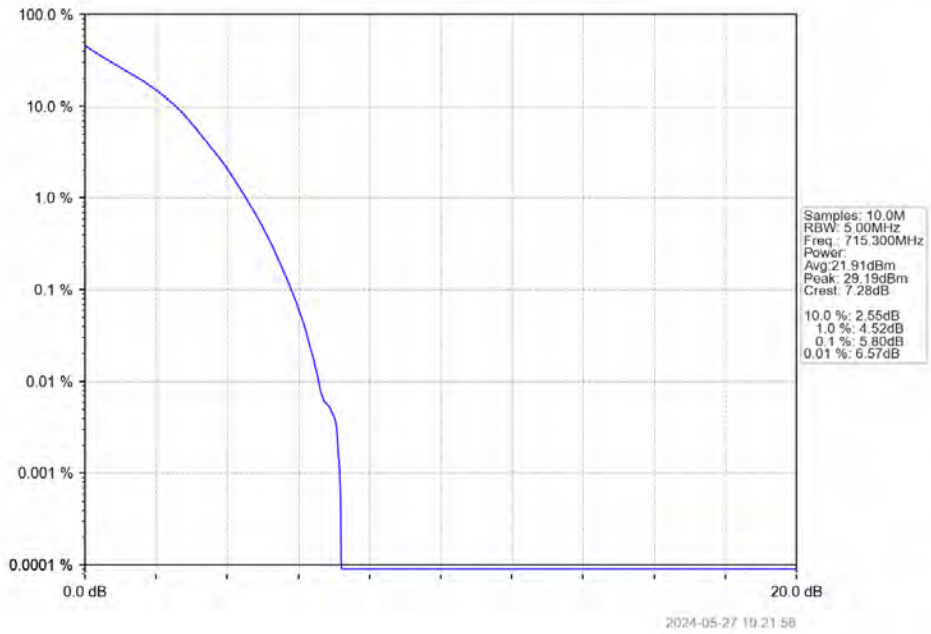
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



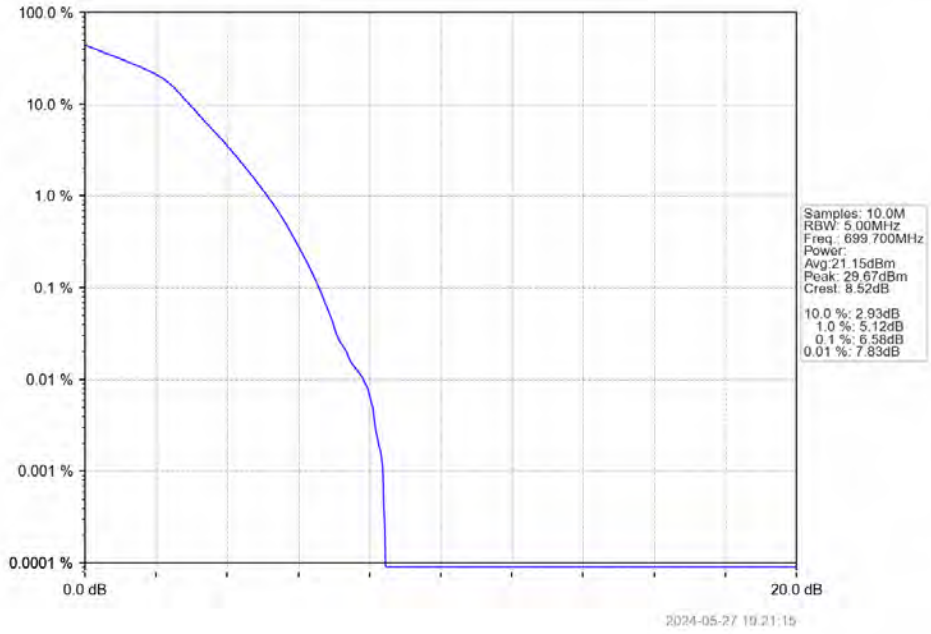
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



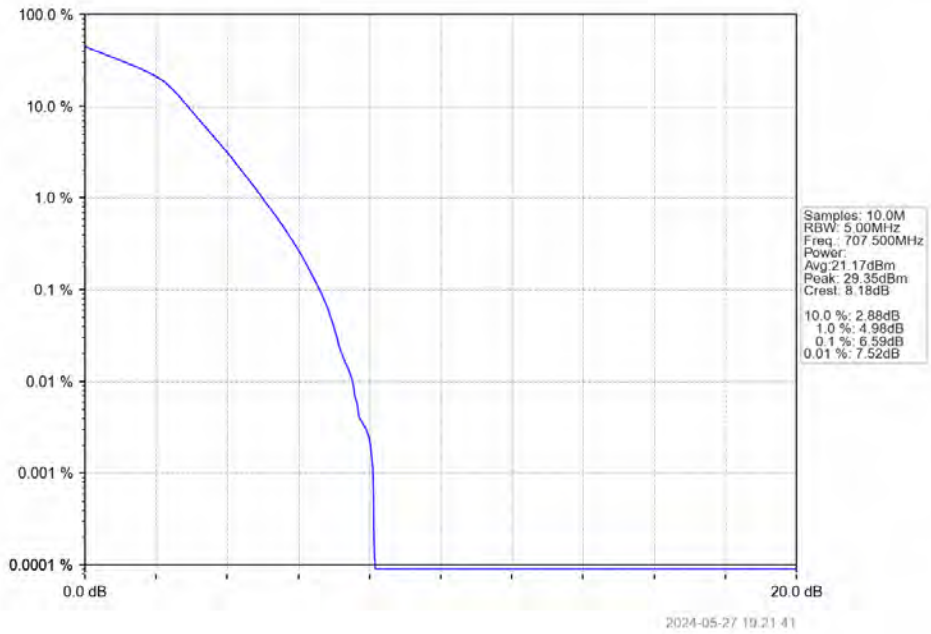
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



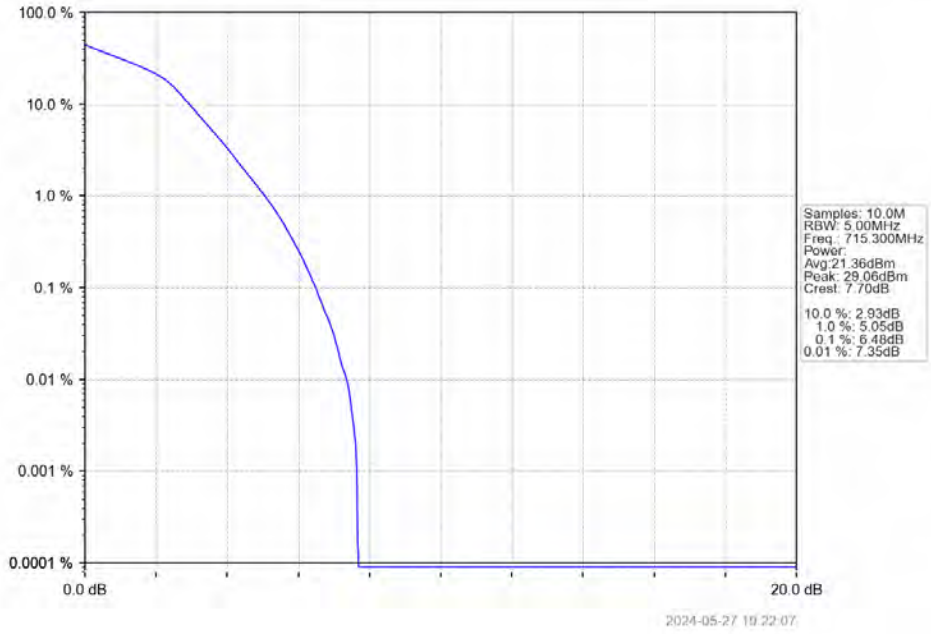
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



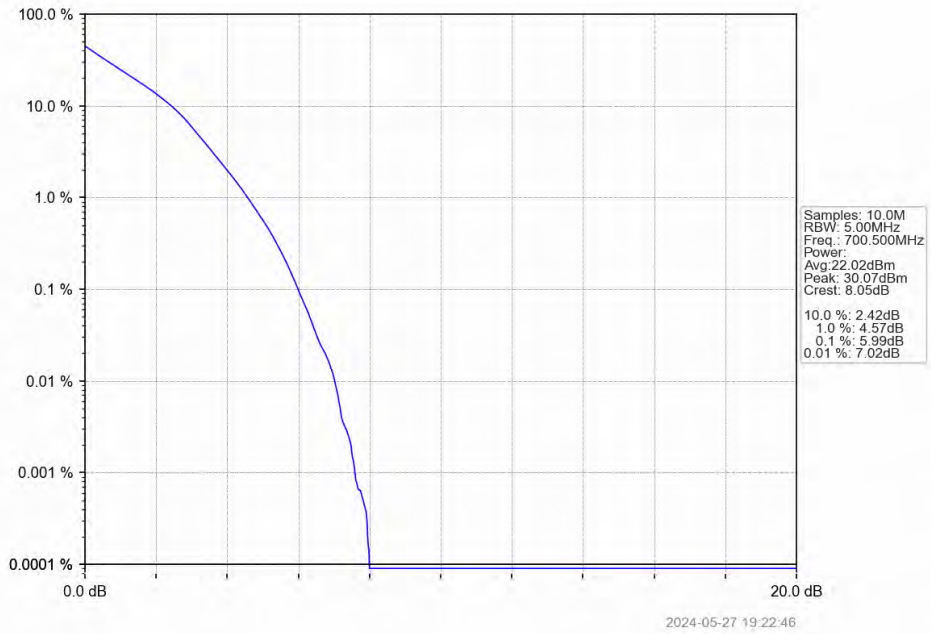
5.2 B12_3MHz

5.2.1 Test Result

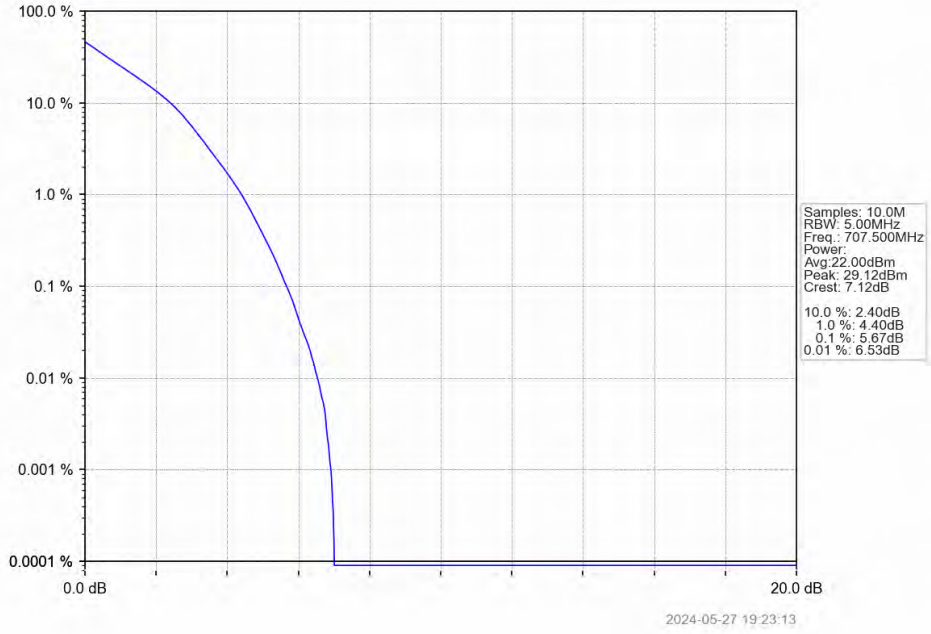
Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.99	<=13	Pass
	707.5	15	0	5.67	<=13	Pass
	714.5	15	0	5.78	<=13	Pass
16QAM	700.5	15	0	6.70	<=13	Pass
	707.5	15	0	6.49	<=13	Pass
	714.5	15	0	6.52	<=13	Pass

5.2.2 Test Graph

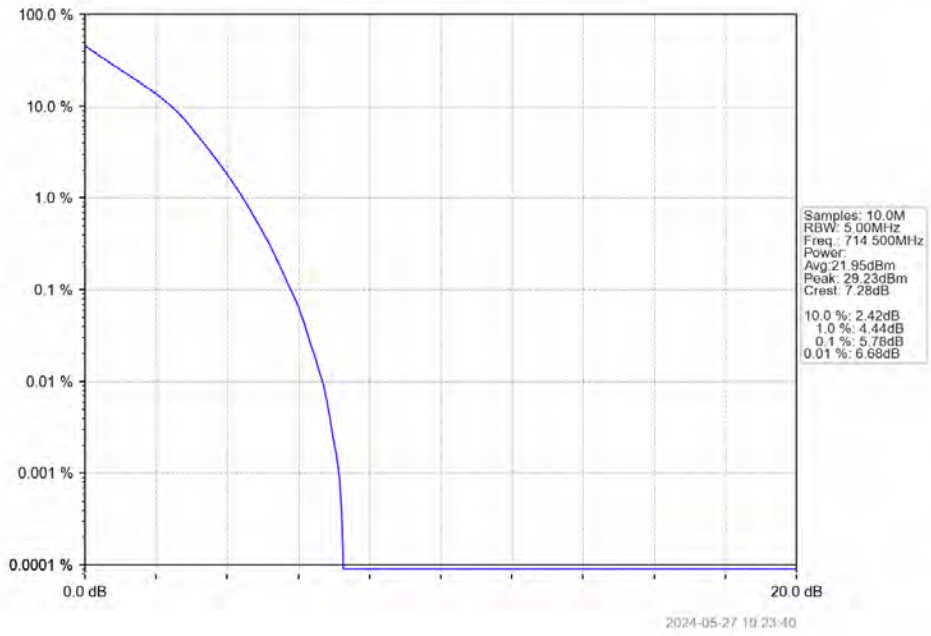
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



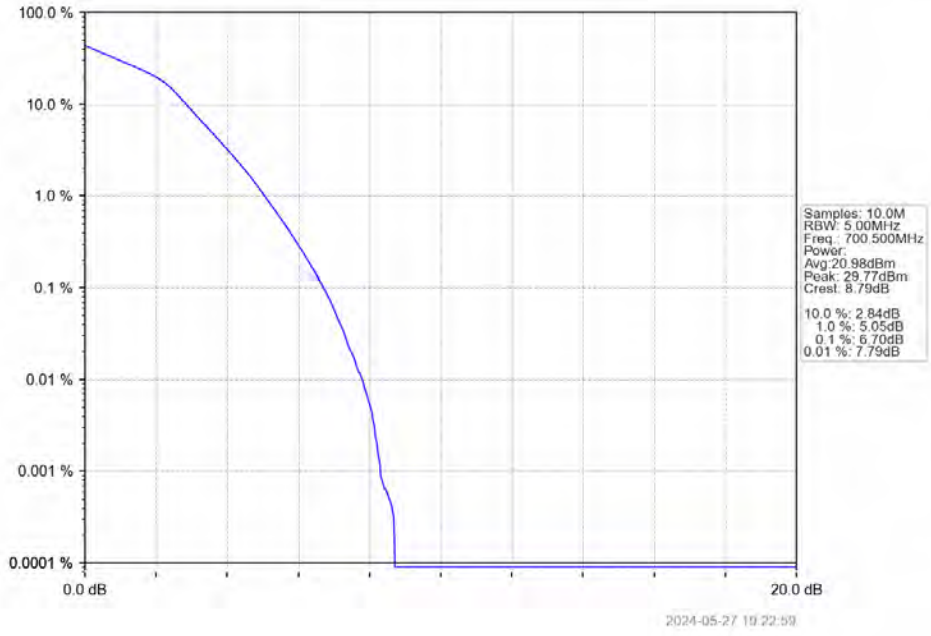
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



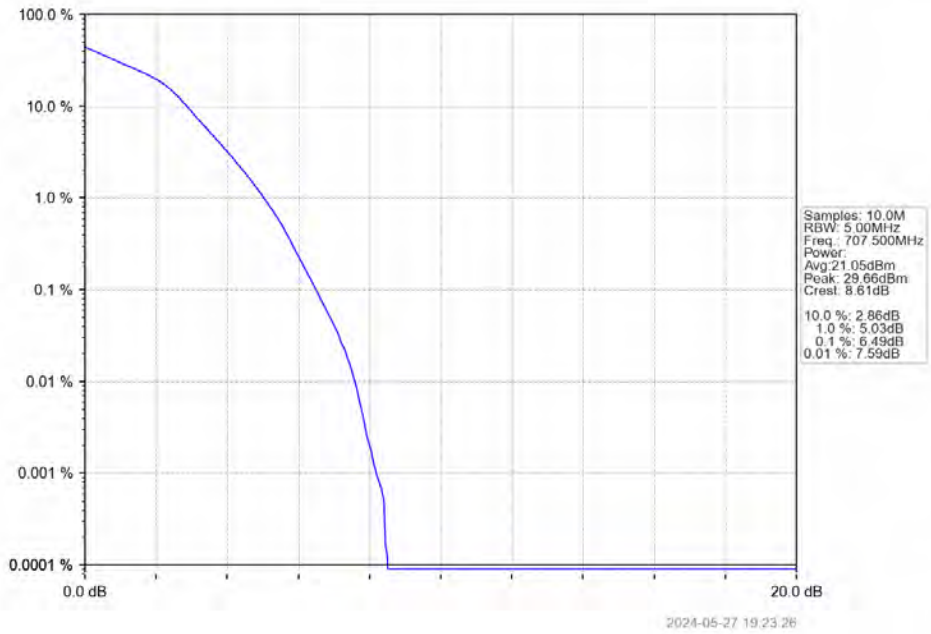
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



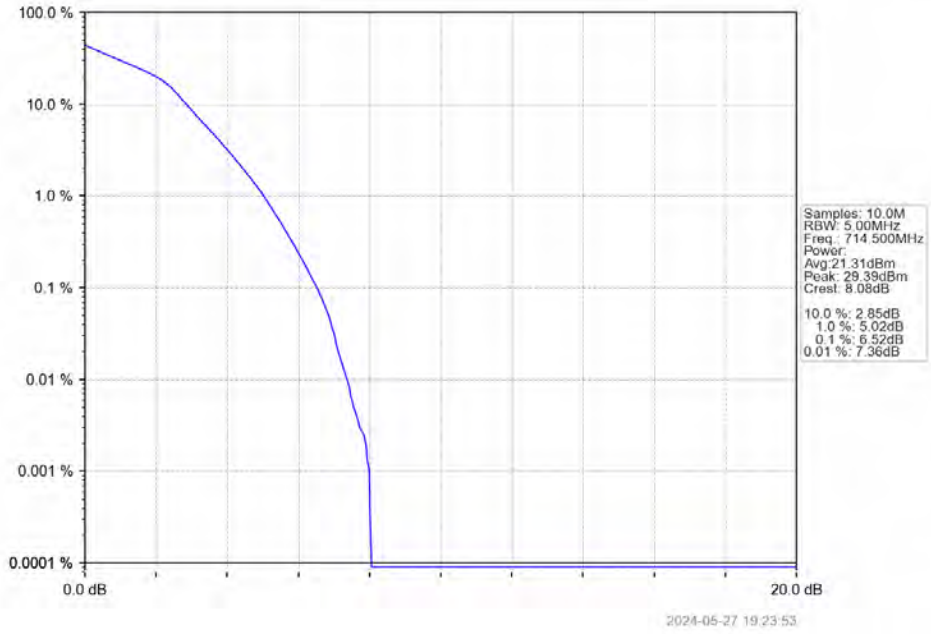
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



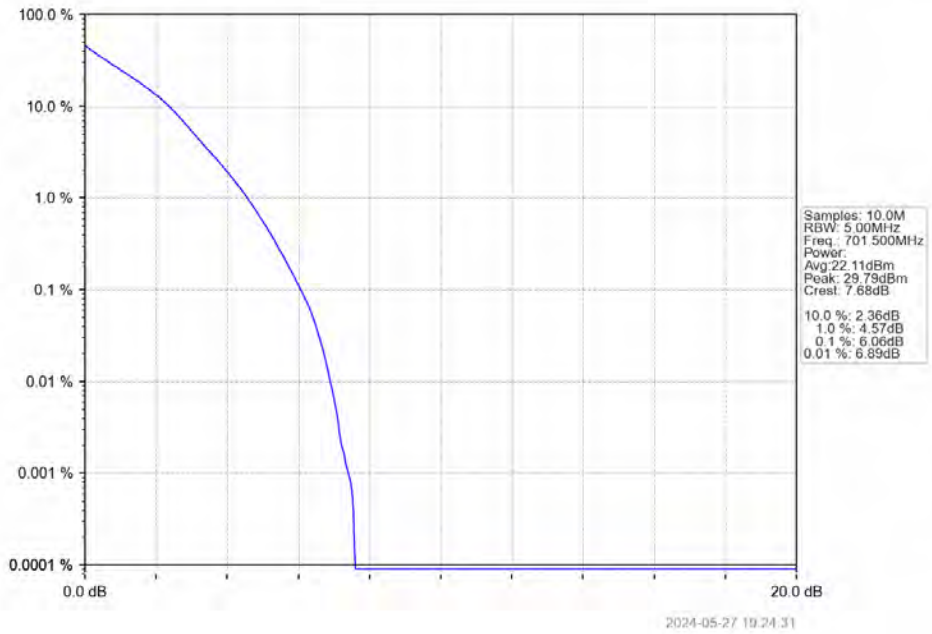
5.3 B12_5MHz

5.3.1 Test Result

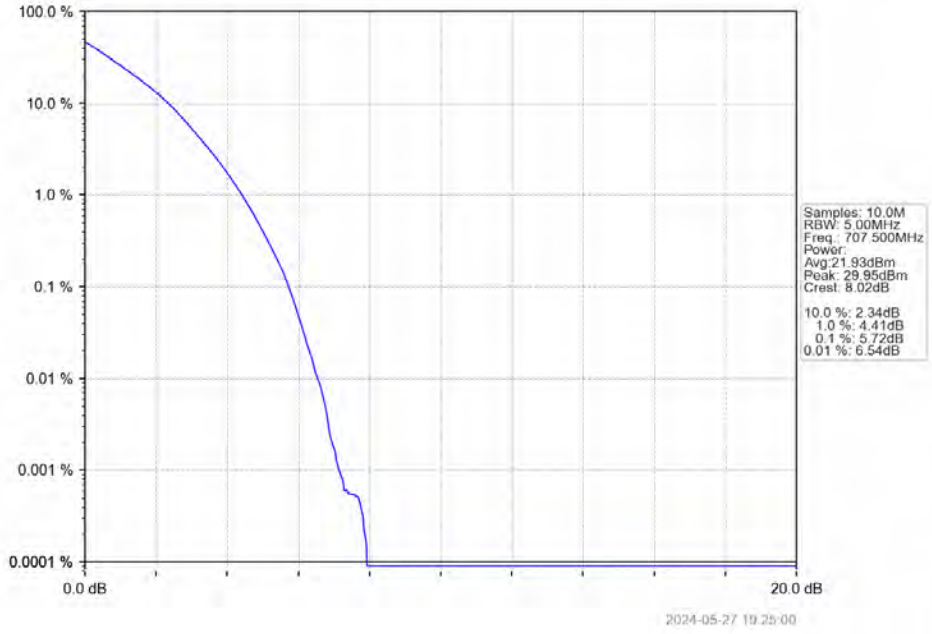
Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	6.06	<=13	Pass
	707.5	25	0	5.72	<=13	Pass
	713.5	25	0	5.69	<=13	Pass
16QAM	701.5	25	0	6.77	<=13	Pass
	707.5	25	0	6.39	<=13	Pass
	713.5	25	0	6.33	<=13	Pass

5.3.2 Test Graph

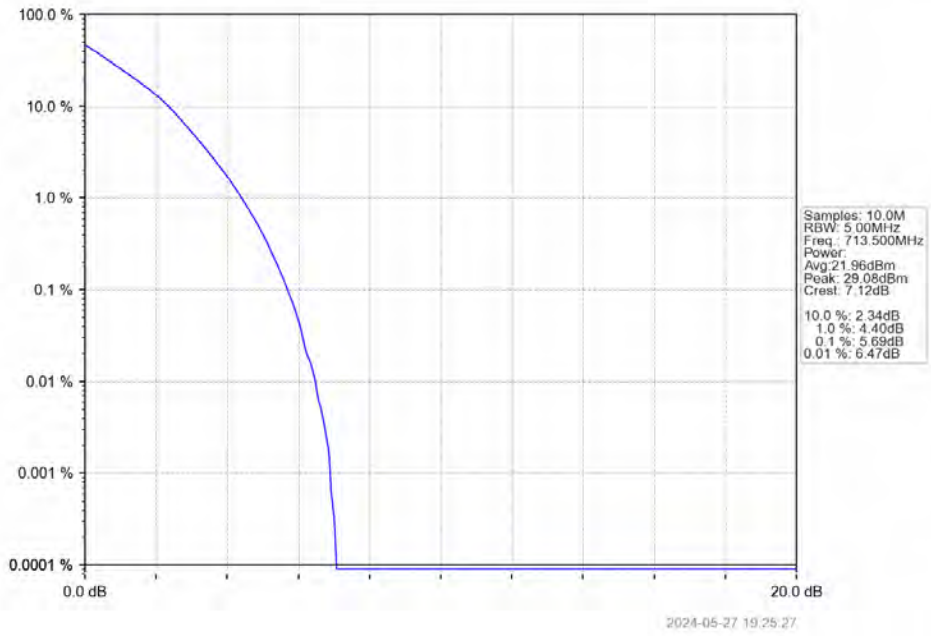
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



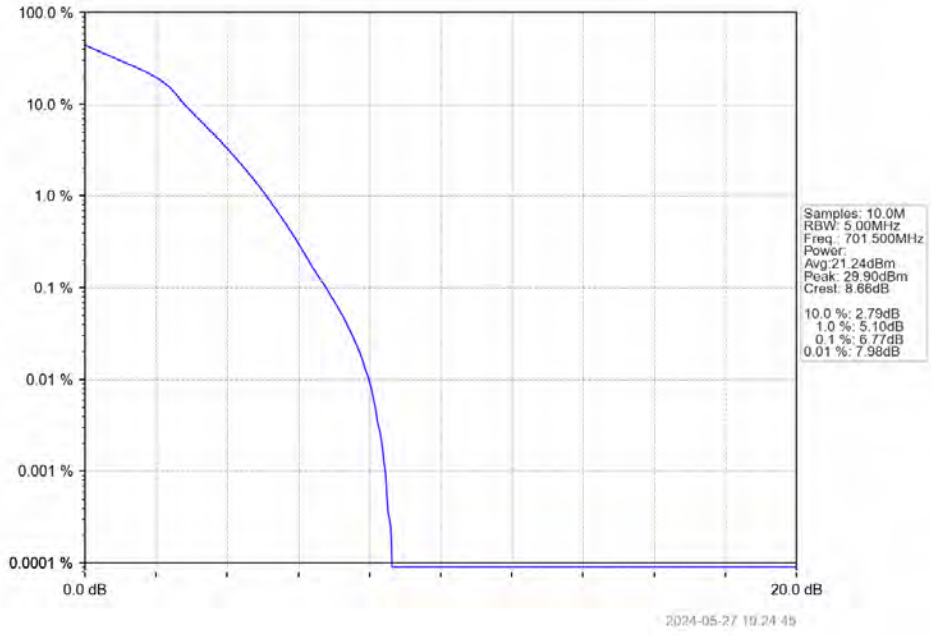
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



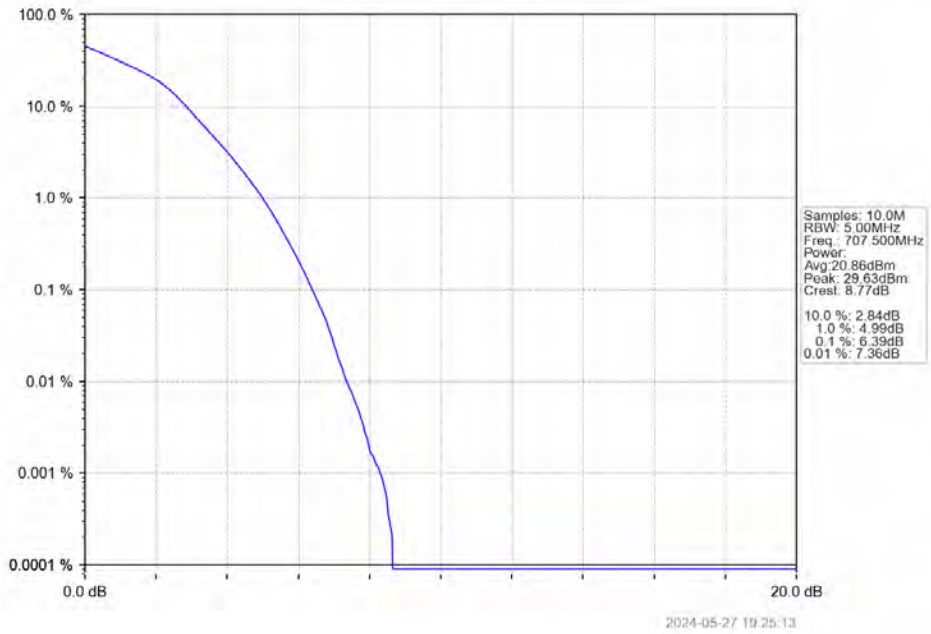
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



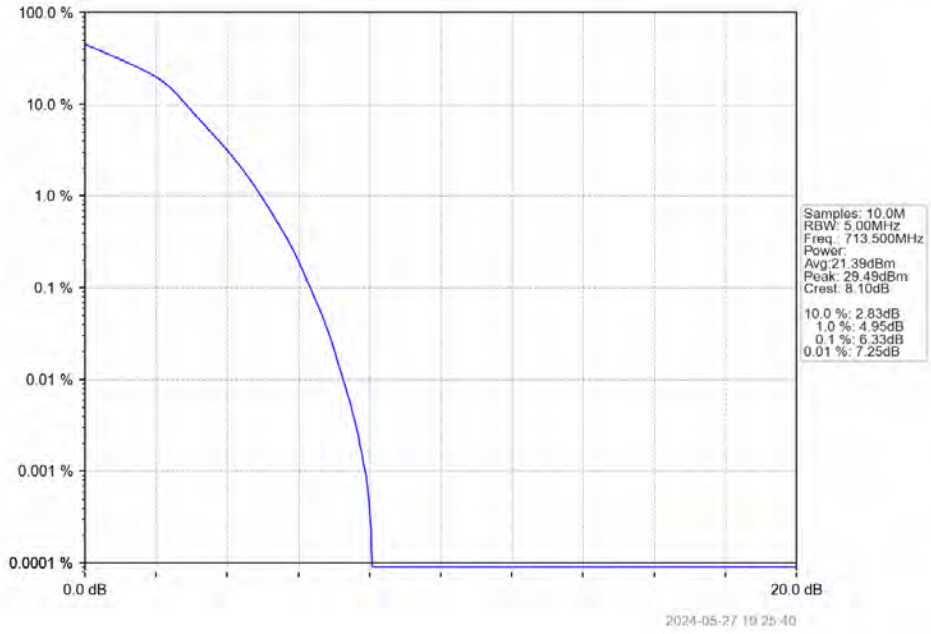
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



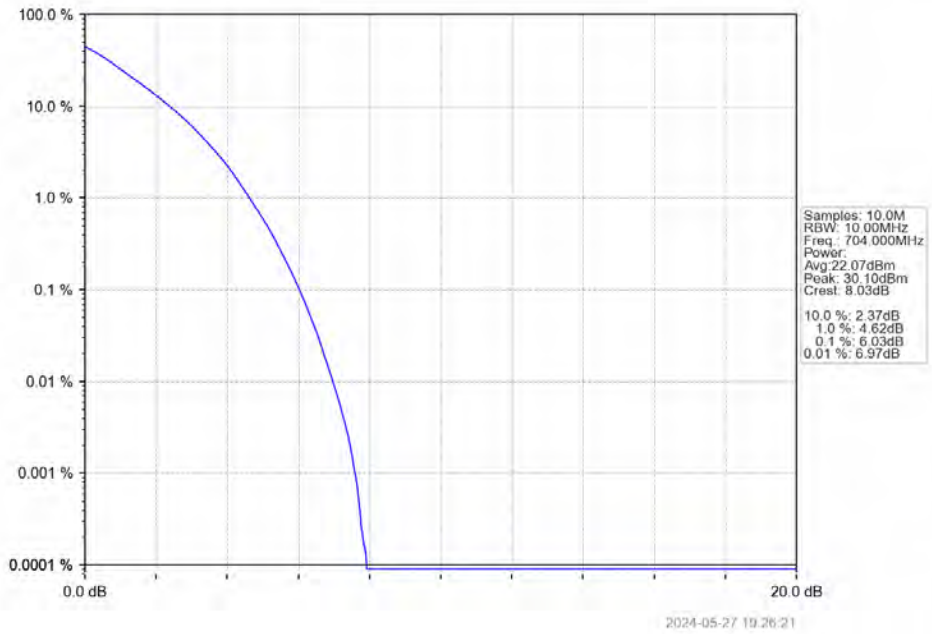
5.4 B12_10MHz

5.4.1 Test Result

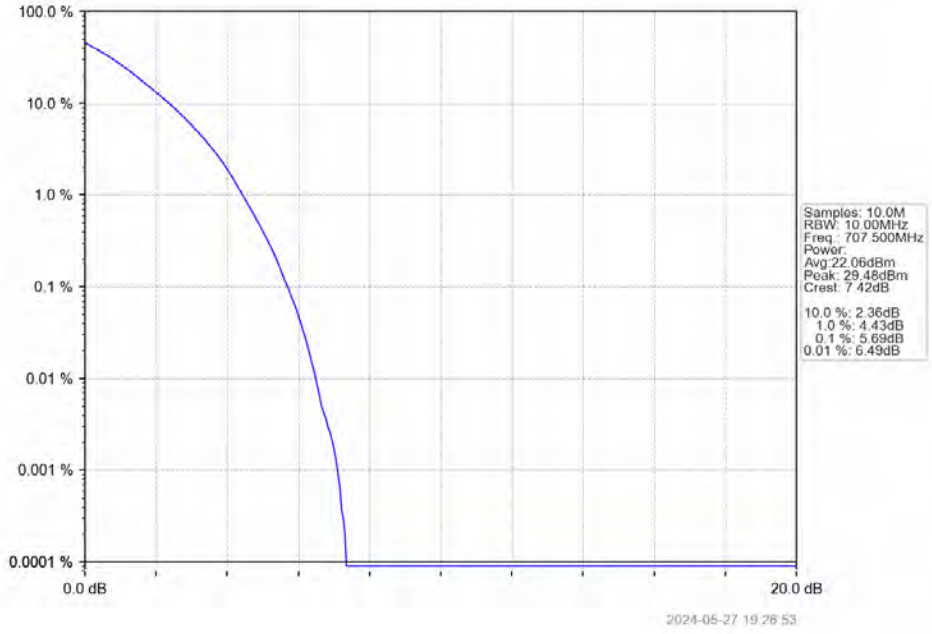
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	6.03	<=13	Pass
	707.5	50	0	5.69	<=13	Pass
	711	50	0	5.57	<=13	Pass
16QAM	704	50	0	6.68	<=13	Pass
	707.5	50	0	6.45	<=13	Pass
	711	50	0	6.30	<=13	Pass

5.4.2 Test Graph

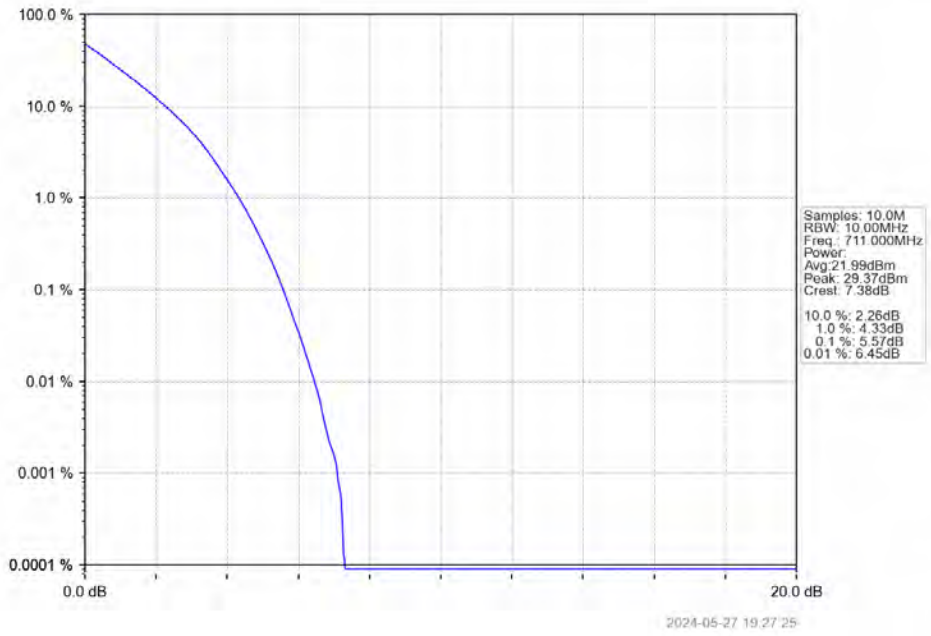
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



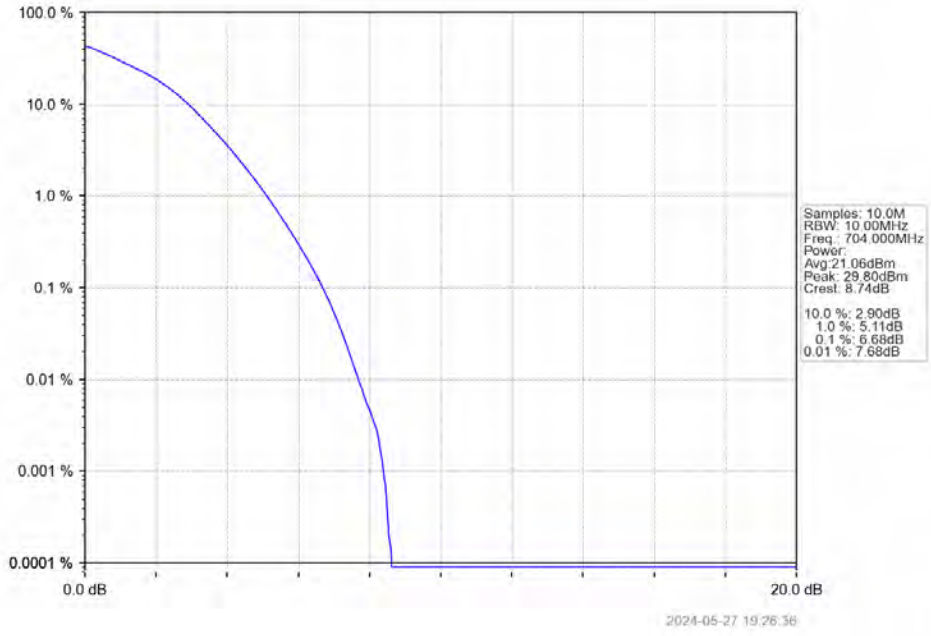
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



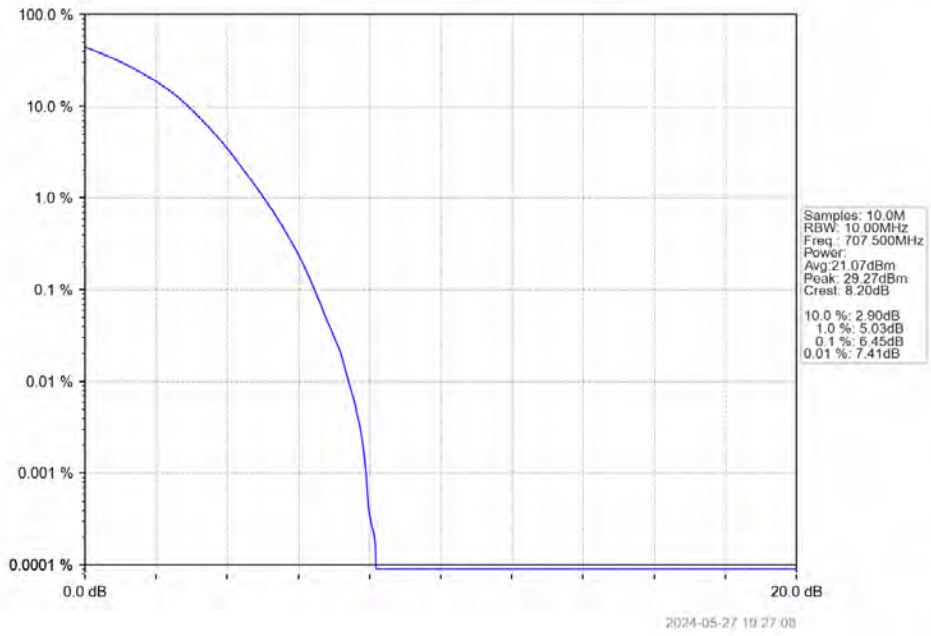
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



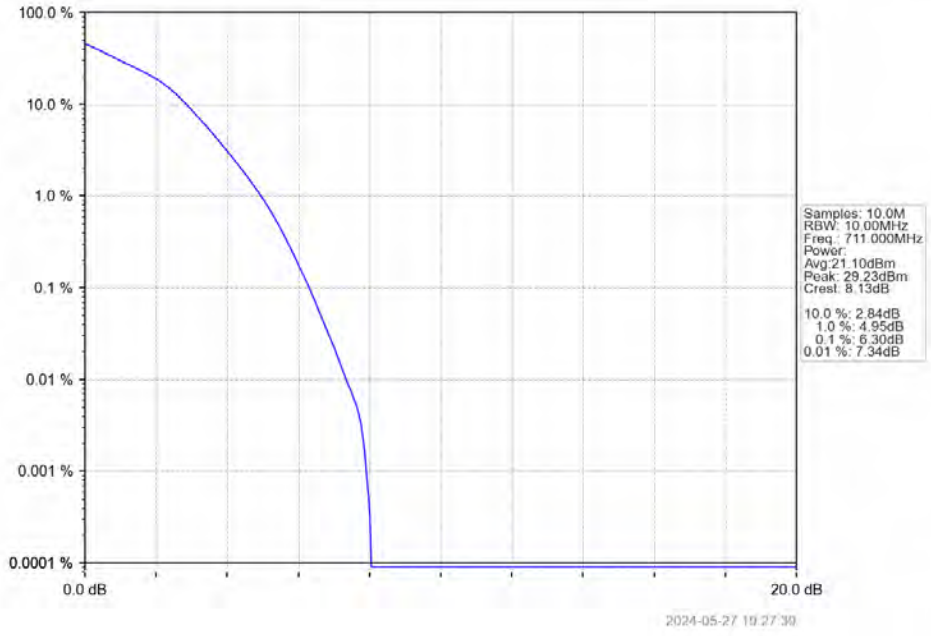
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



6. Spurious Emission

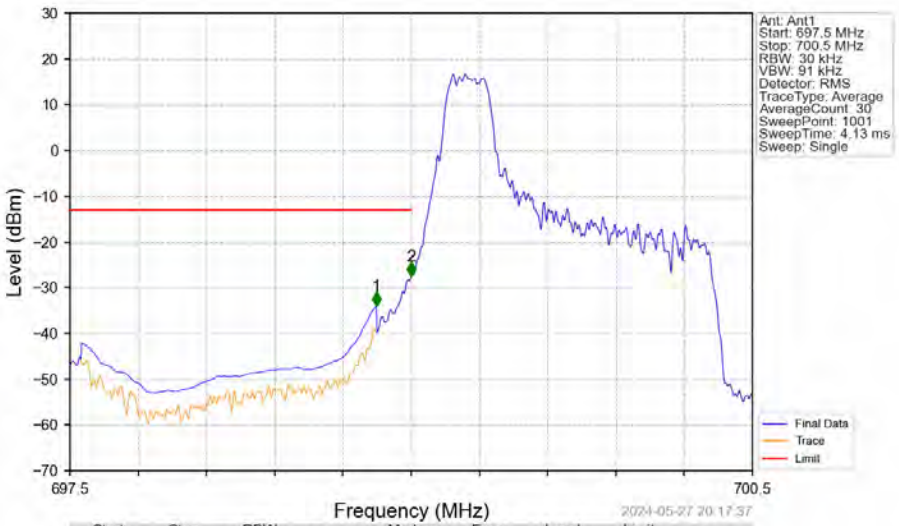
6.1 B12_1.4MHz

6.1.1 Test Result

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

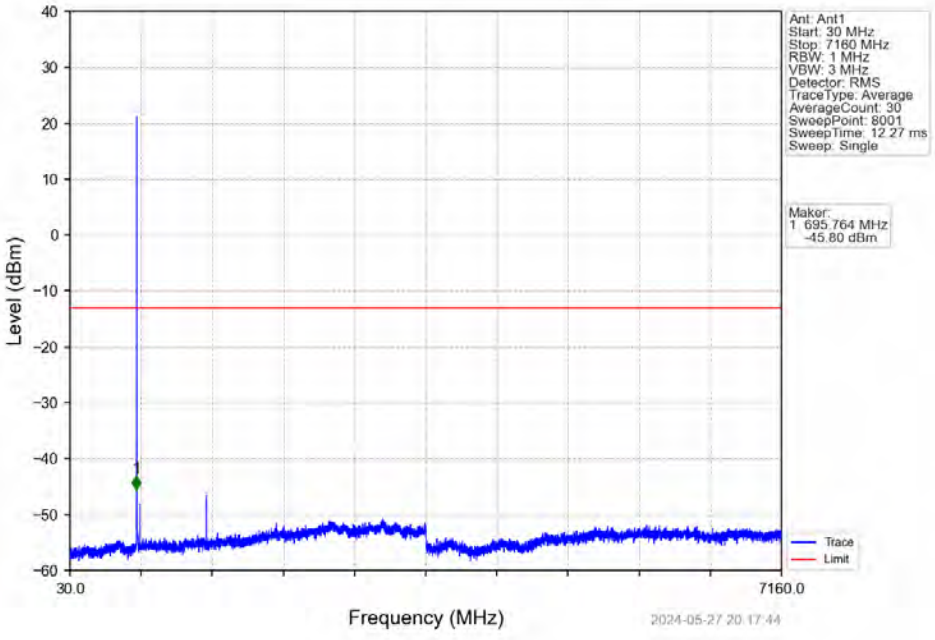
6.1.2 Test Graph

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

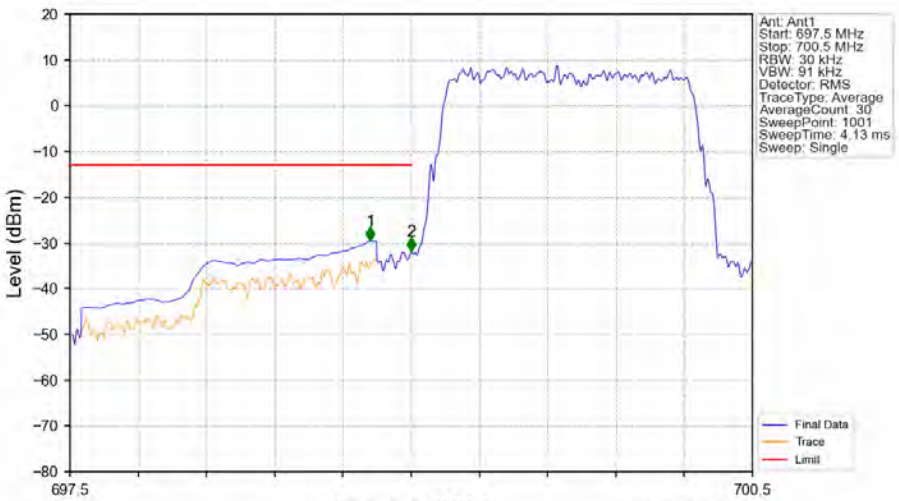


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-34.08	-13	Pass
698.9	699	0.03	/	2	699.000	-27.52	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

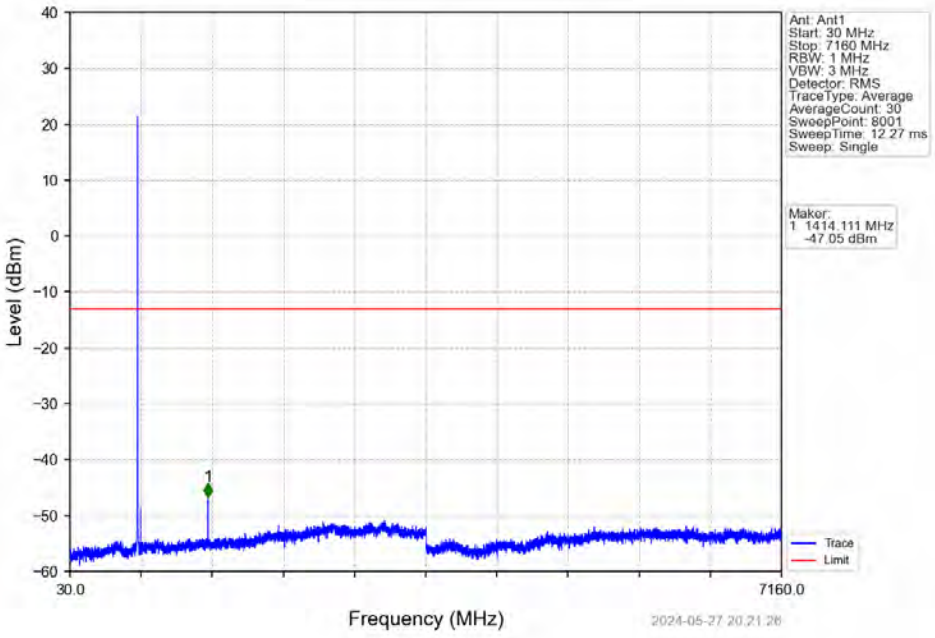


Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV

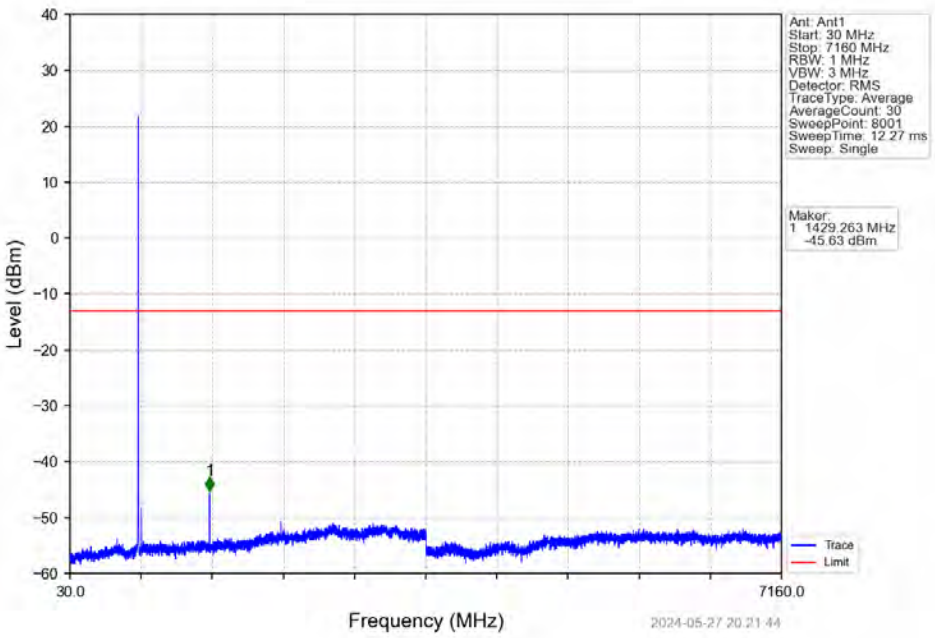


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.820	-29.58	-13	Pass
698.9	699	0.03	/	2	699.000	-31.91	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

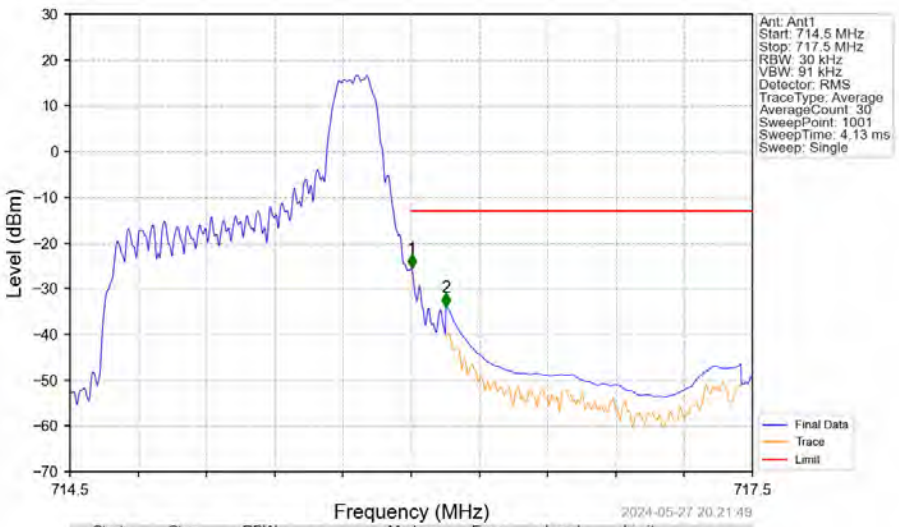
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV

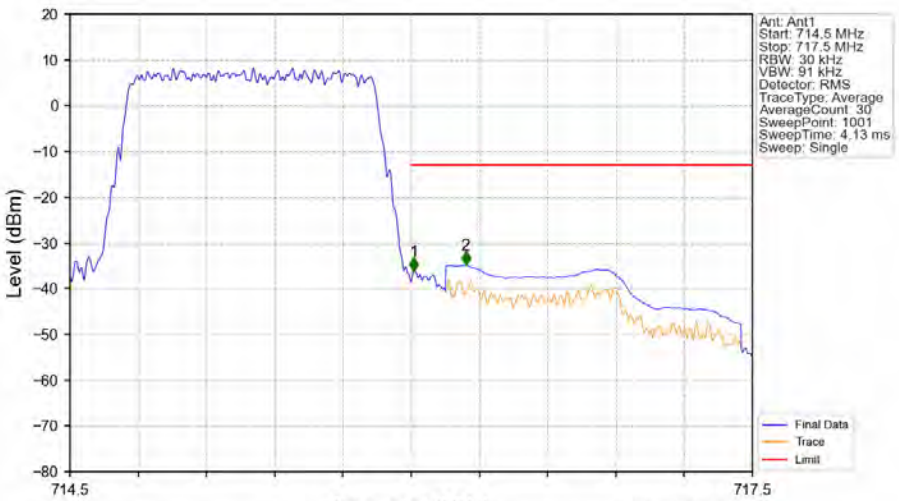


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



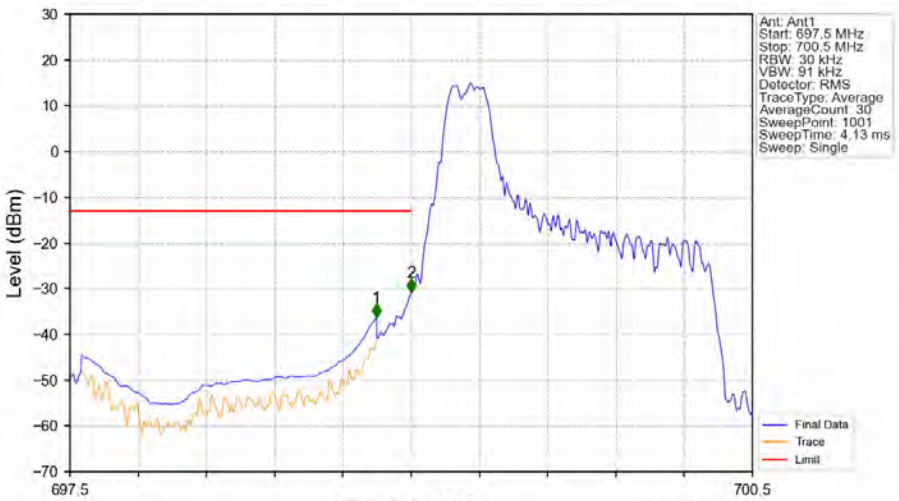
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.003	-25.57	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-34.06	-13	Pass

Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



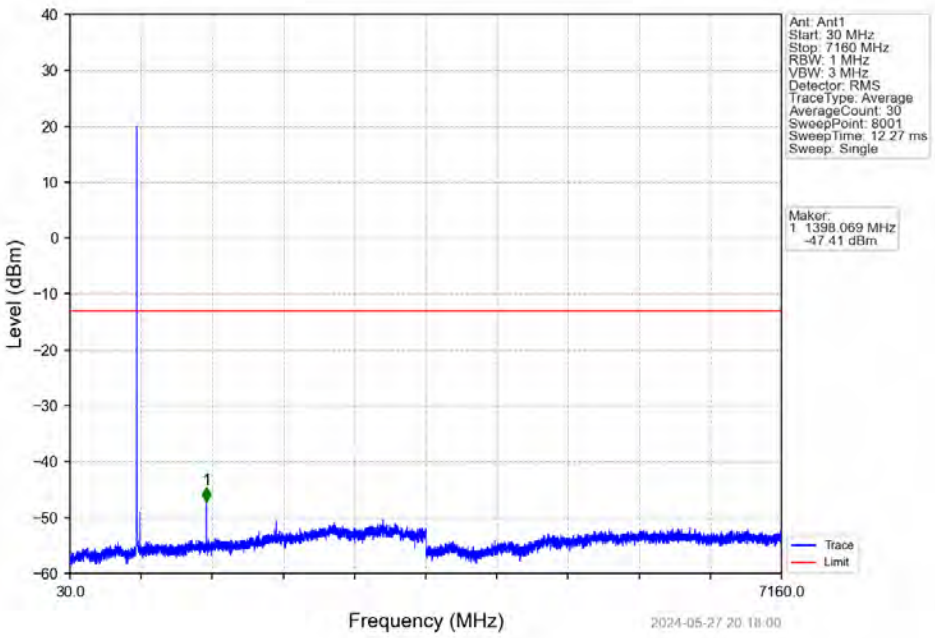
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.012	-36.25	-13	Pass
716.1	717.5	0.1	CHP	2	716.240	-34.84	-13	Pass

Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV

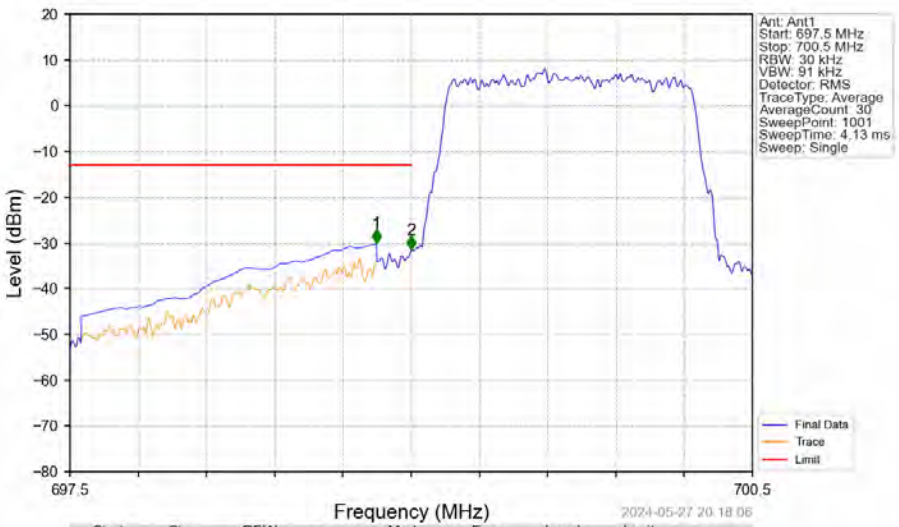


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-36.39	-13	Pass
698.9	699	0.03	/	2	699.000	-30.93	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV

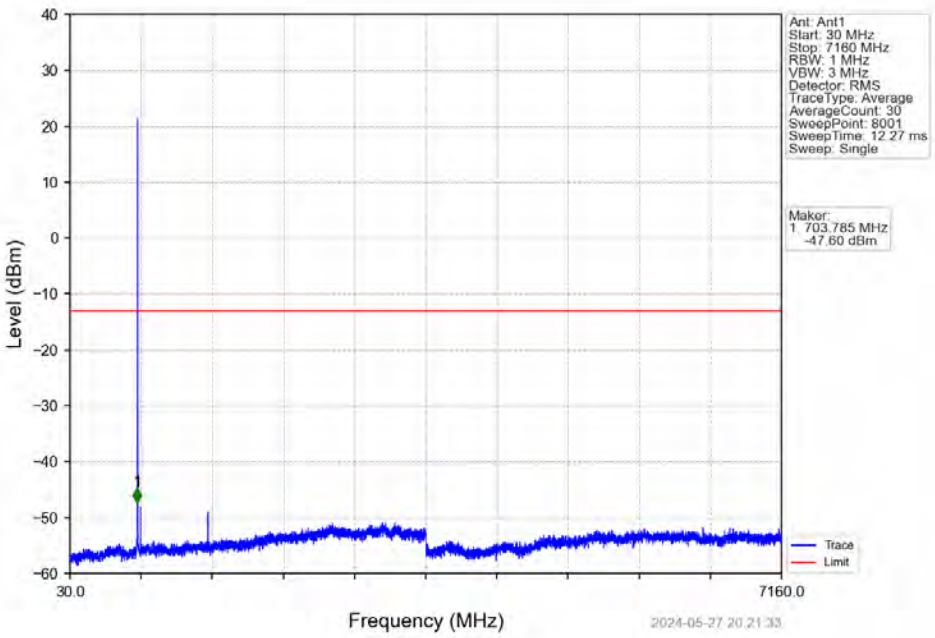


Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

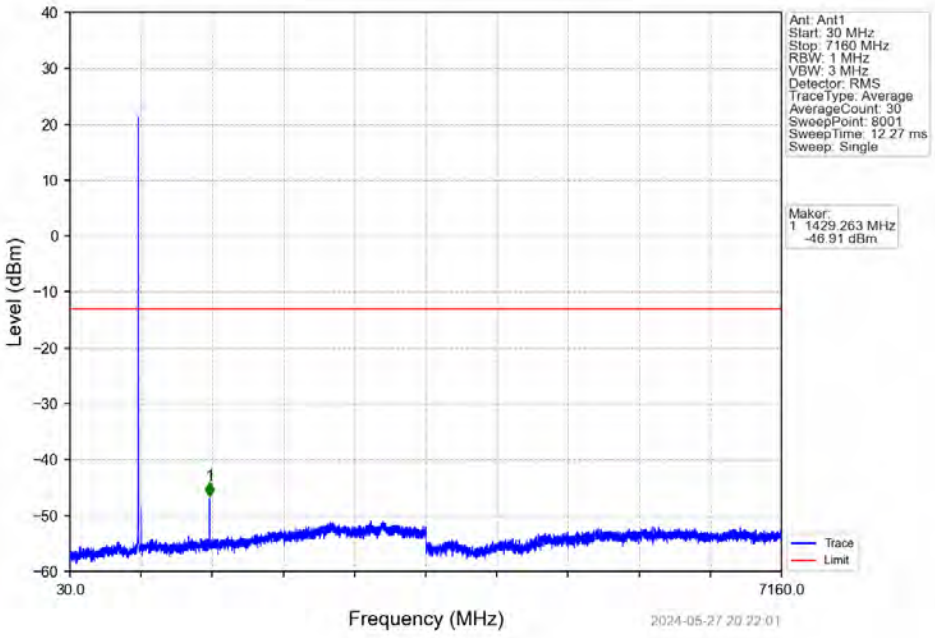


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-30.11	-13	Pass
698.9	699	0.03	/	2	699.000	-31.57	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

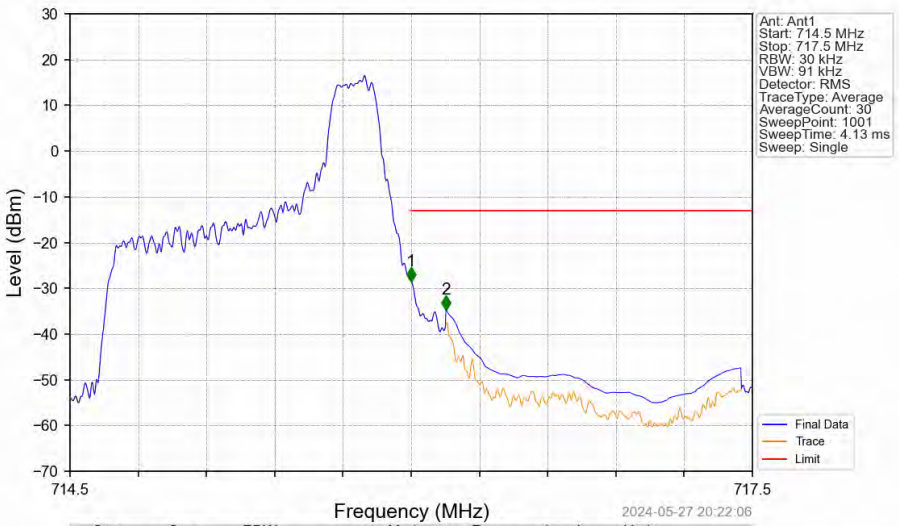
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_0_NTNV

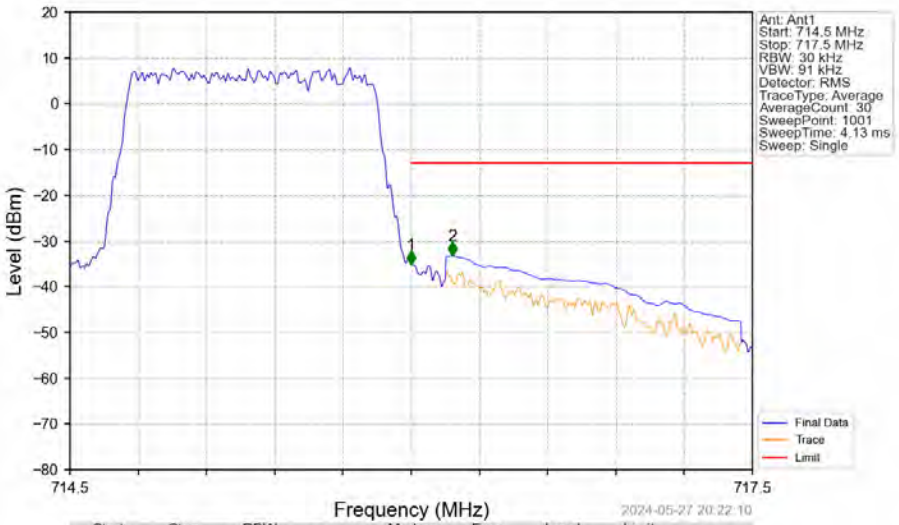


Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-28.49	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-34.65	-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	716.000	-35.15	-13	Pass
716.1	717.5	0.1	CHP	2	716.180	-33.25	-13	Pass

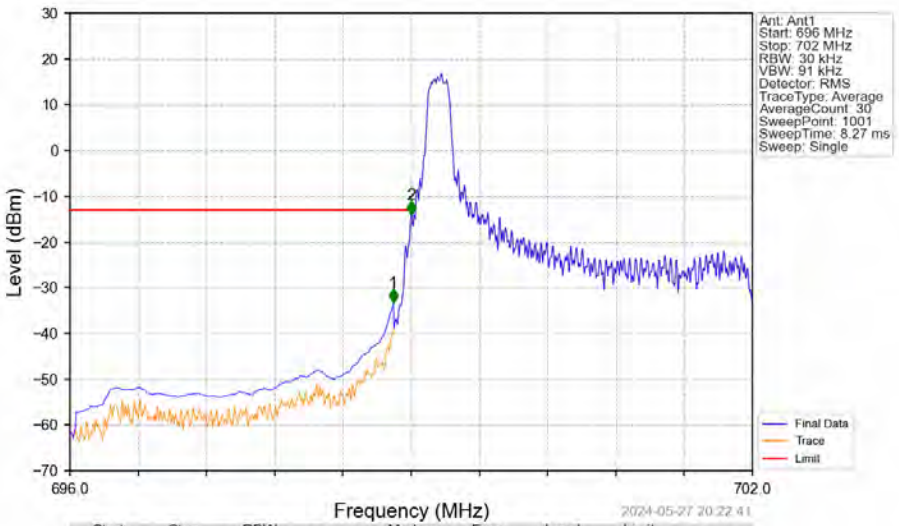
6.2 B12_3MHz

6.2.1 Test Result

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

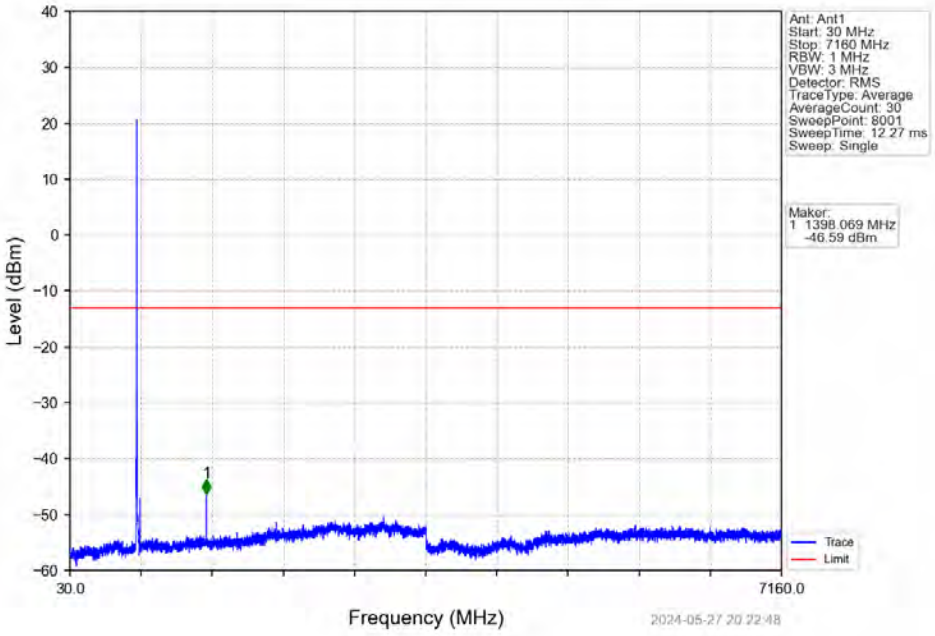
6.2.2 Test Graph

Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

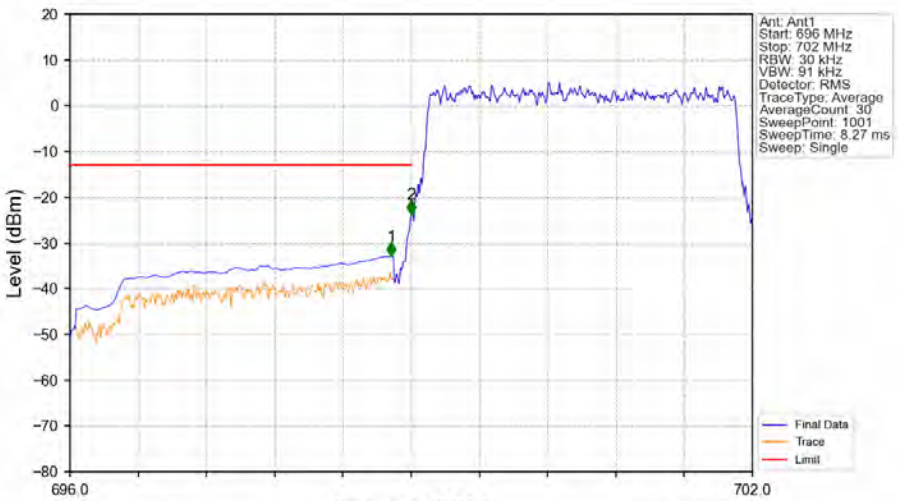


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-33.39	-13	Pass
698.9	699	0.03	/	2	699.000	-14.09	-13	Pass
699	702	0.03	/	/	/	/	/	/

Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

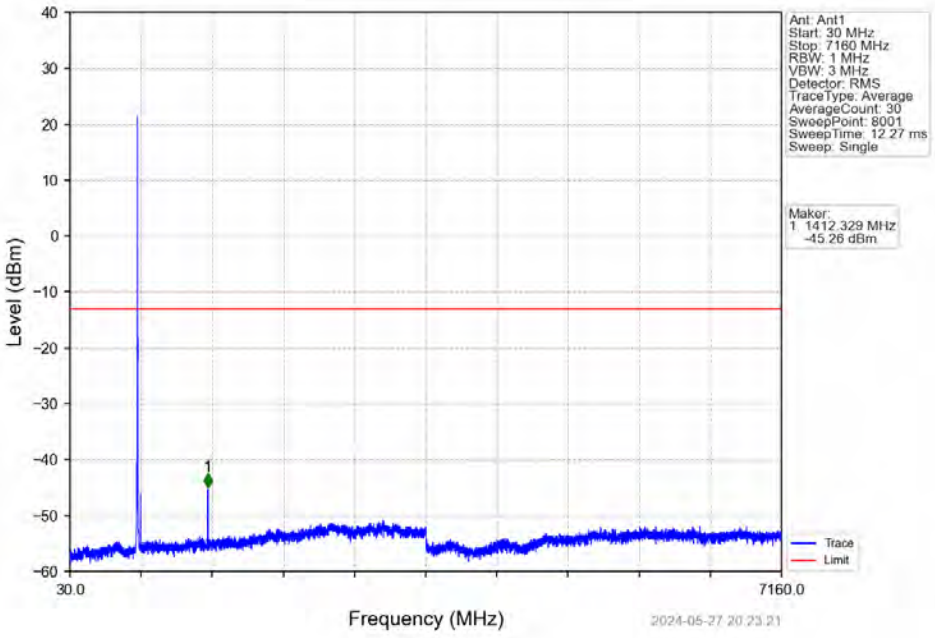


Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV

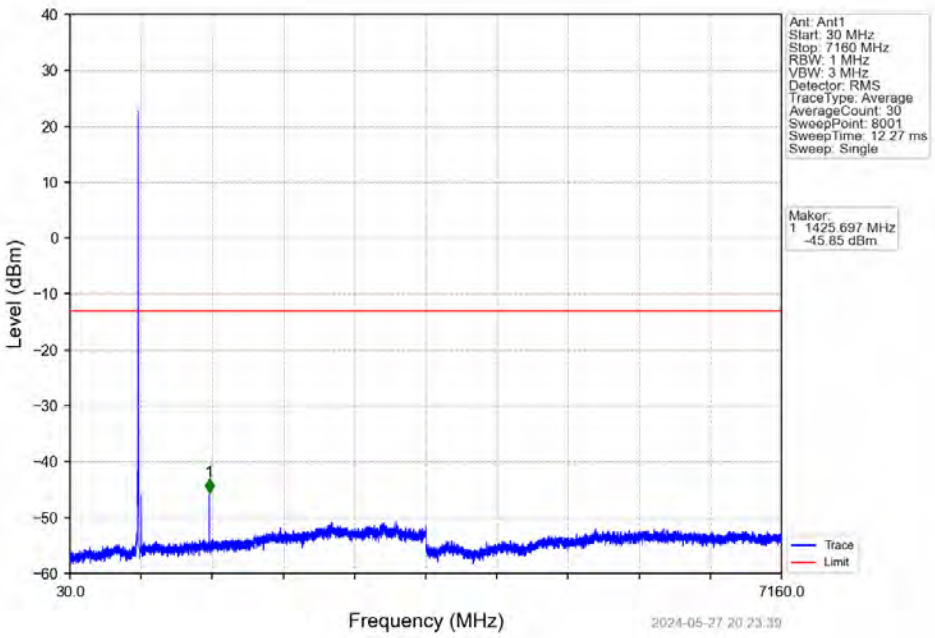


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.826	-32.91	-13	Pass
698.9	699	0.03	/	2	699.000	-23.75	-13	Pass
699	702	0.03	/	/	/	/	/	/

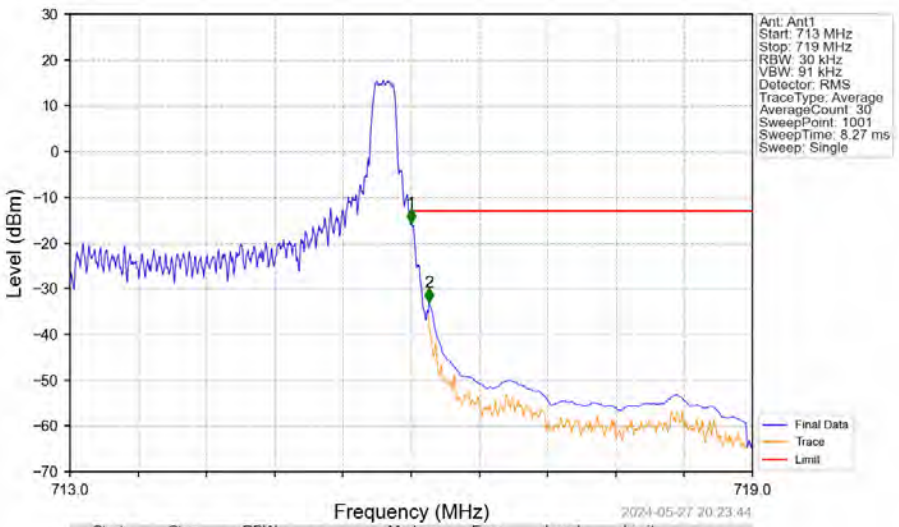
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV

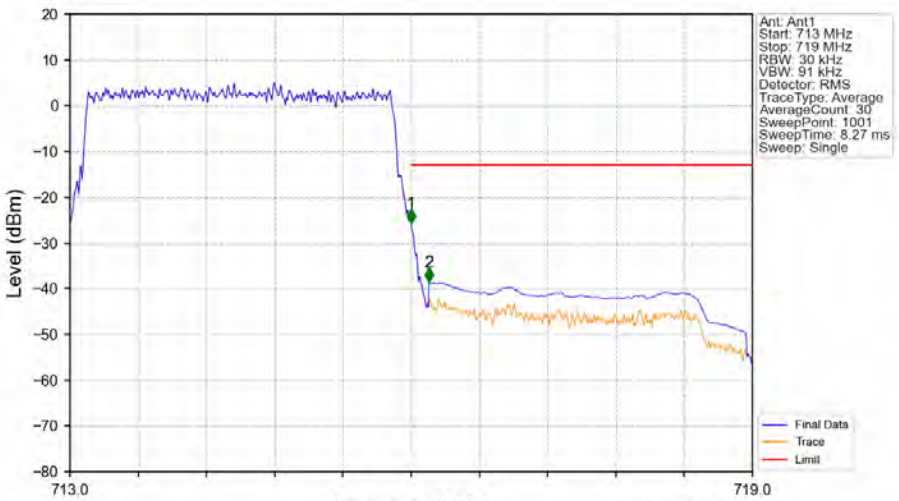


Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



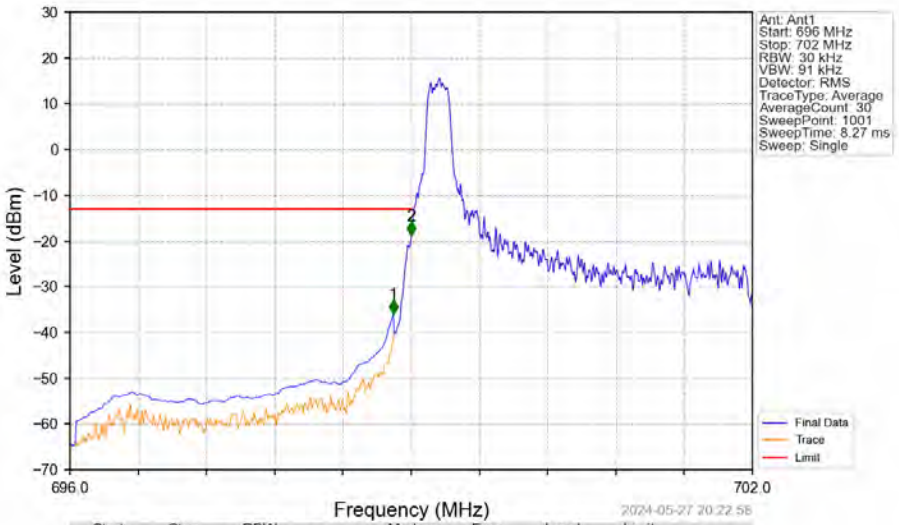
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-15.65	-13	Pass
716.1	719	0.1	CHP	2	716.156	-32.99	-13	Pass

Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



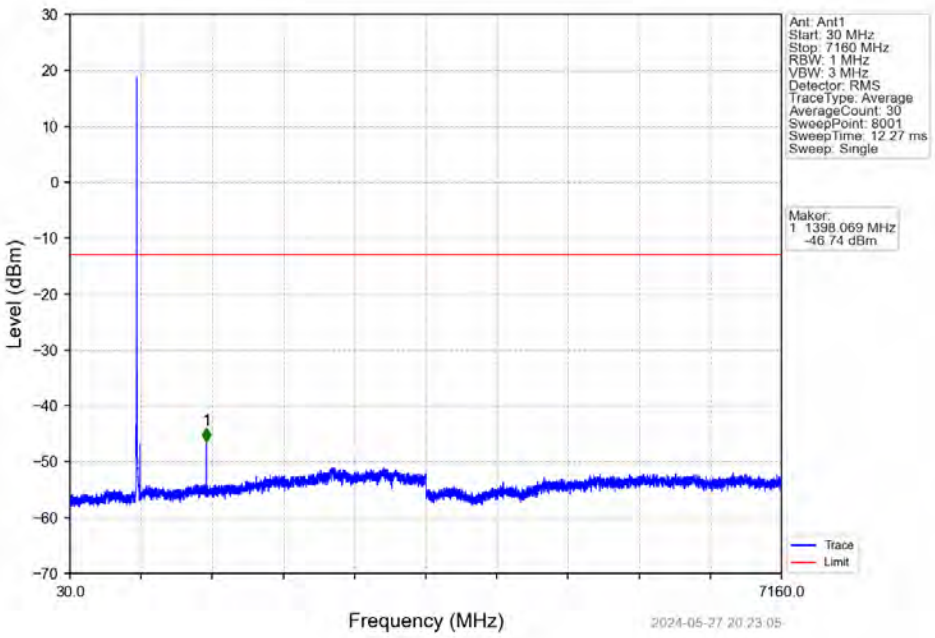
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-25.63	-13	Pass
716.1	719	0.1	CHP	2	716.156	-38.52	-13	Pass

Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV

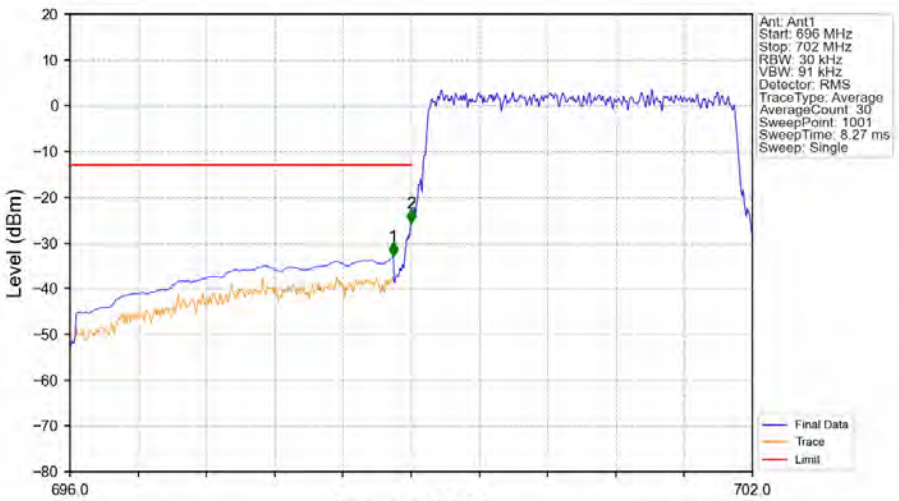


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-35.93	-13	Pass
698.9	699	0.03	/	2	699.000	-18.82	-13	Pass
699	702	0.03	/	/	/	/	/	/

Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV

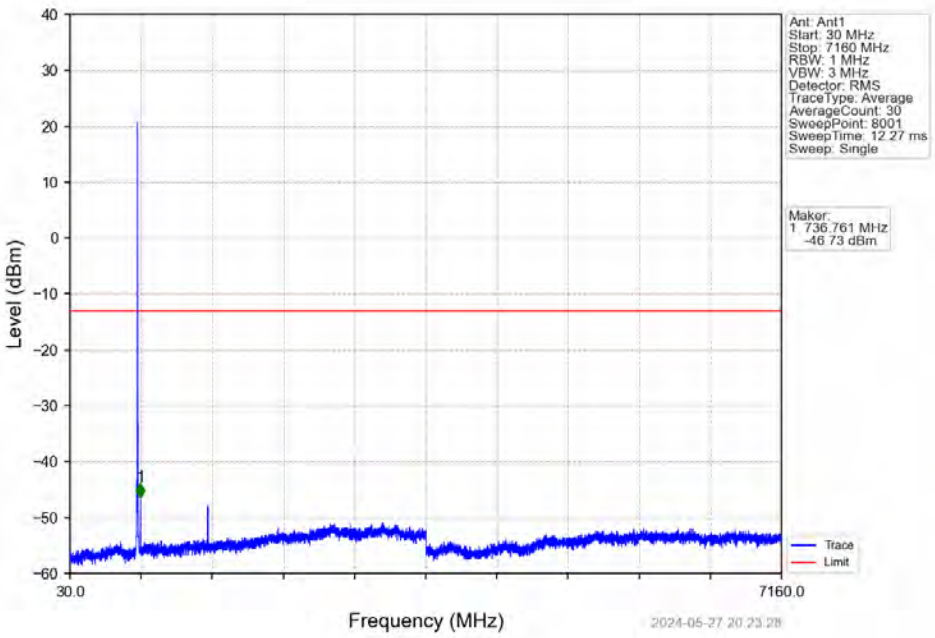


Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

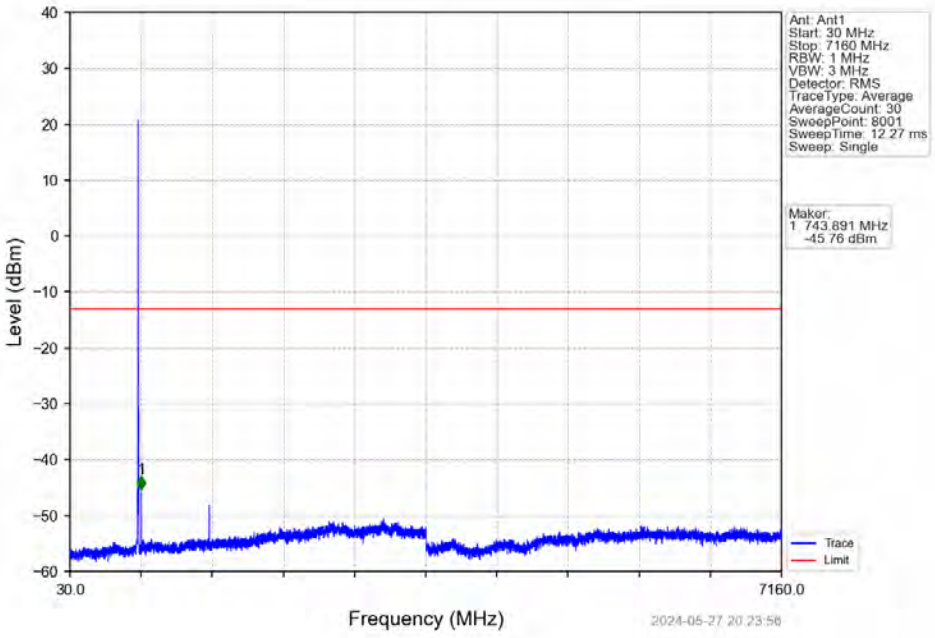


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-32.98	-13	Pass
698.9	699	0.03	/	2	699.000	-25.69	-13	Pass
699	702	0.03	/	/	/	/	/	/

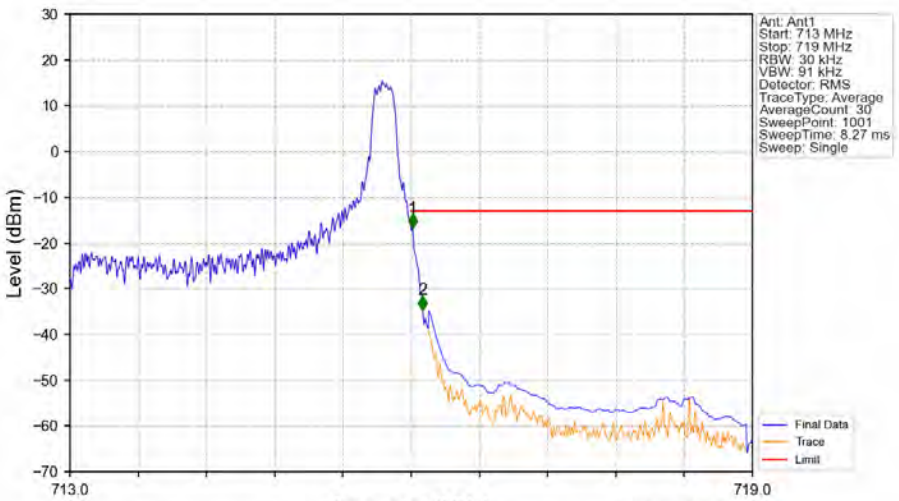
Band12_3MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV

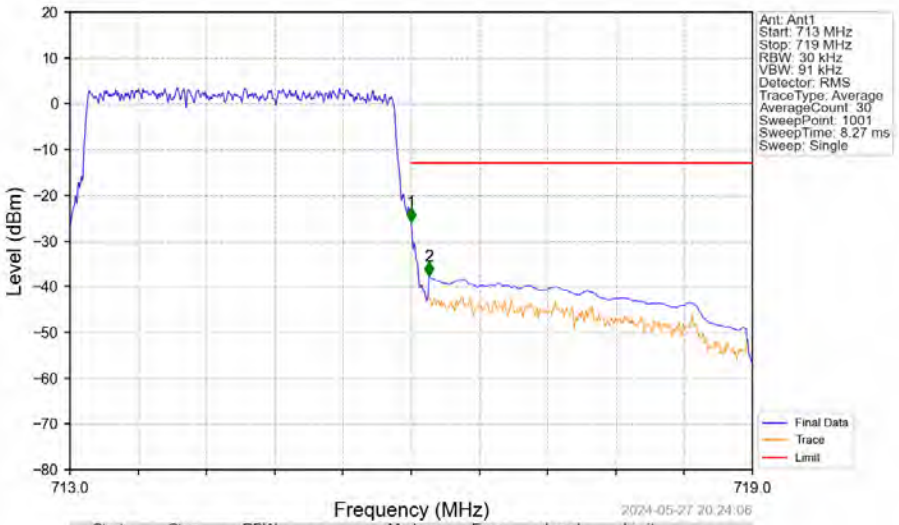


Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_14_NTNV



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	716.012	-16.81	-13	Pass
716.1	719	0.1	CHP	2	716.102	-34.64	-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	716.000	-25.92	-13	Pass
716.1	719	0.1	CHP	2	716.156	-37.74	-13	Pass

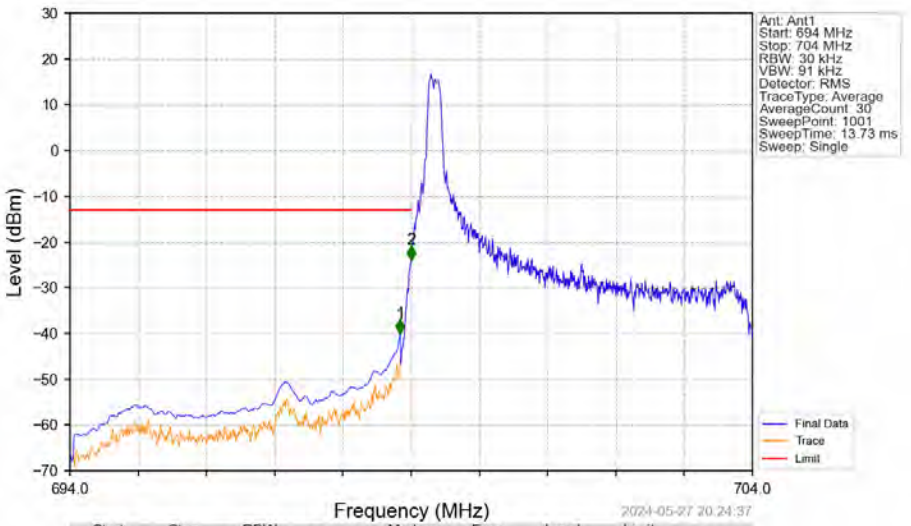
6.3 B12_5MHz

6.3.1 Test Result

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

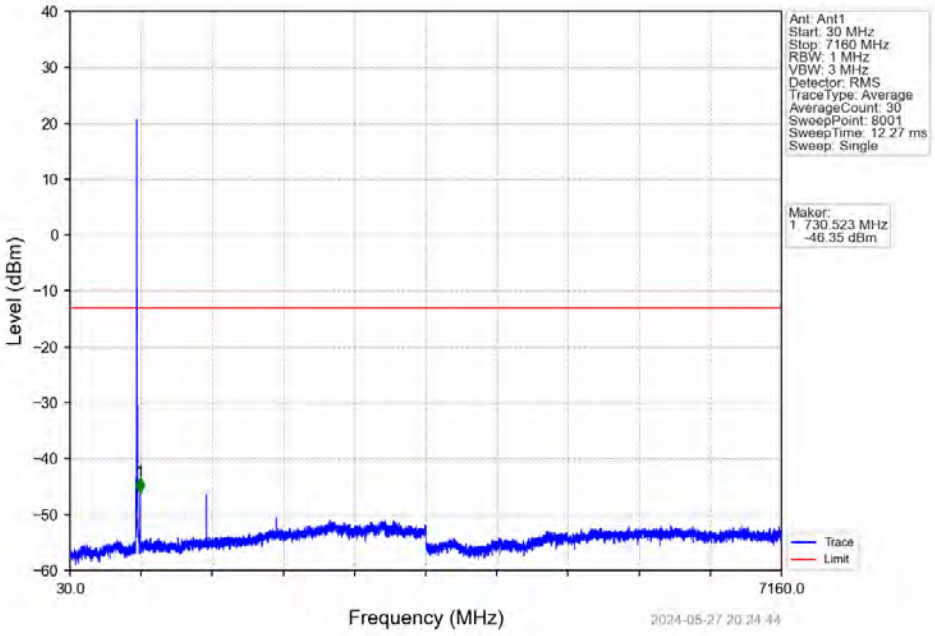
6.3.2 Test Graph

Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV

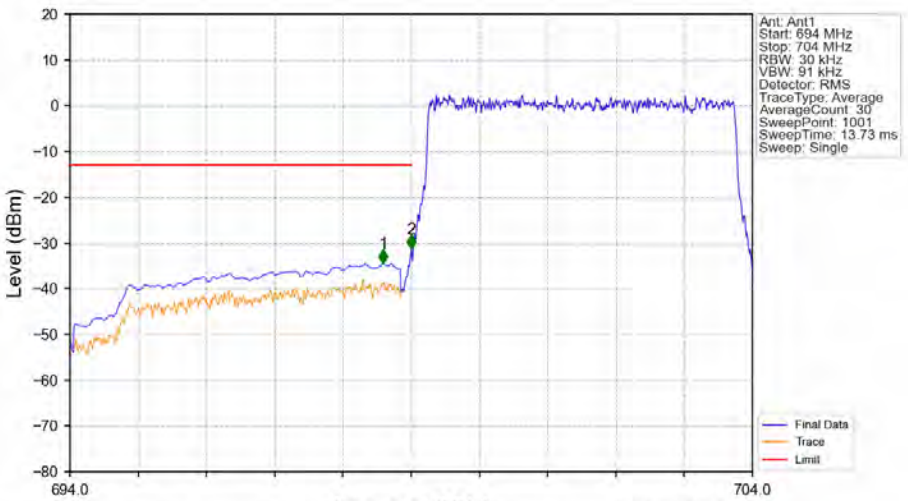


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-40.01	-13	Pass
698.9	699	0.03	/	2	699.000	-23.89	-13	Pass
699	704	0.03	/	/	/	/	/	/

Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV

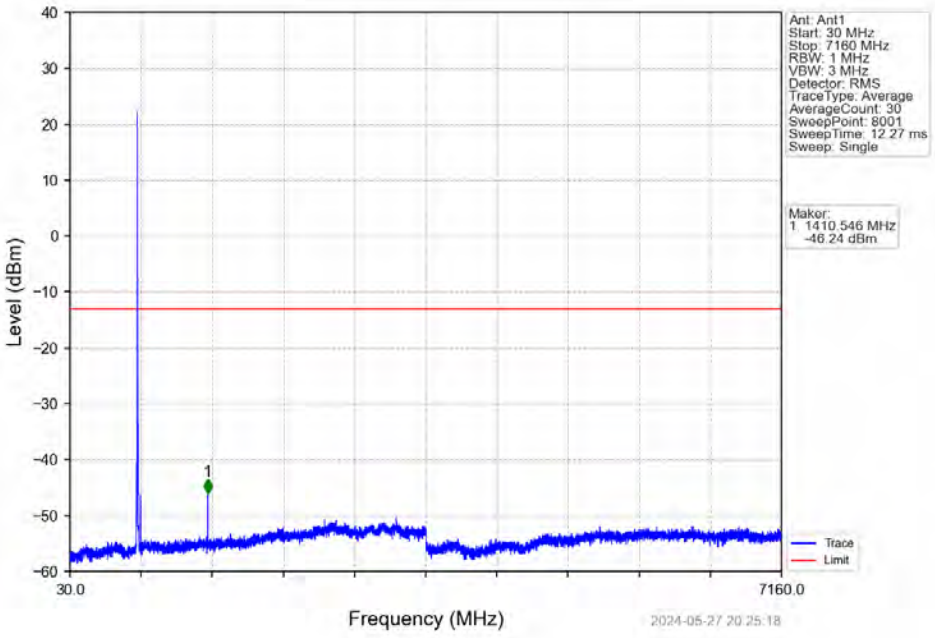


Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV

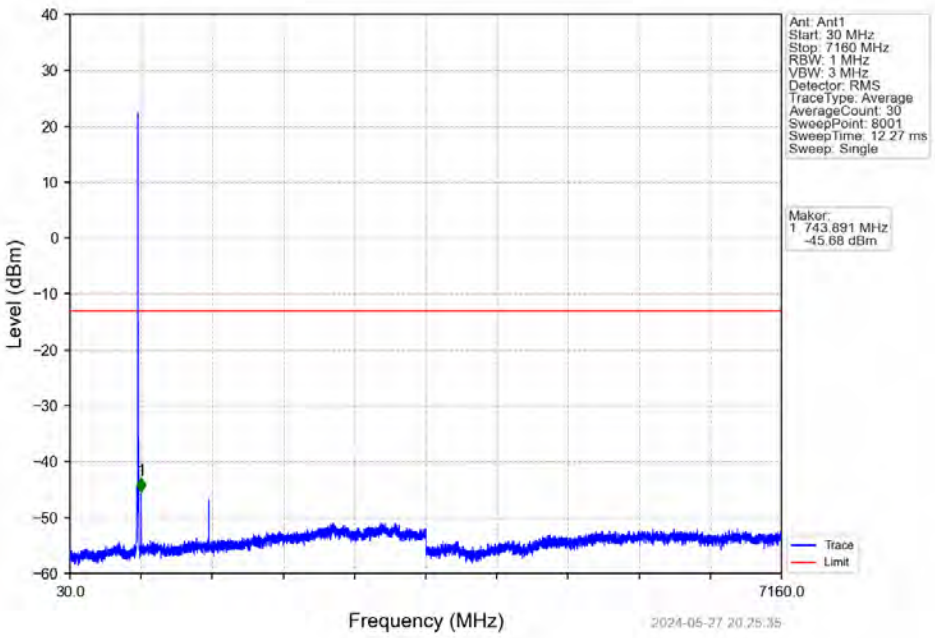


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.590	-34.53	-13	Pass
698.9	699	0.03	/	2	699.000	-31.29	-13	Pass
699	704	0.03	/	/	/	/	/	/

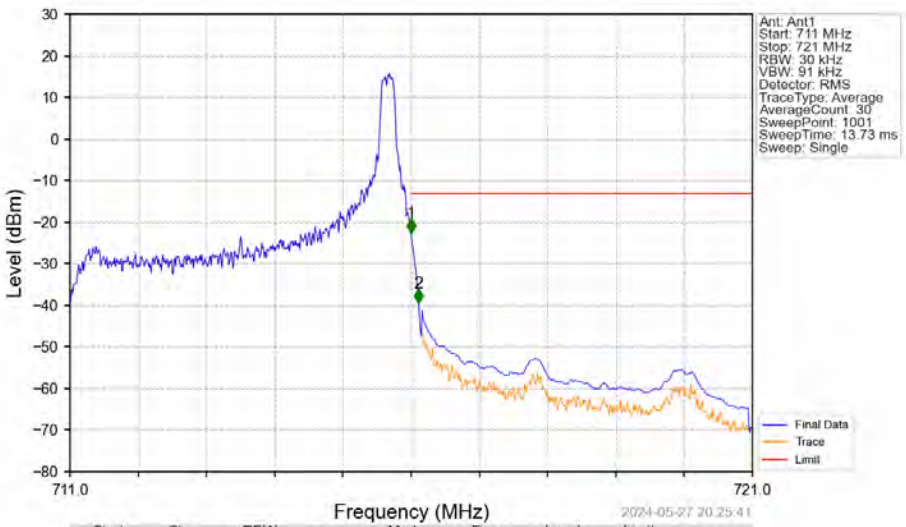
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

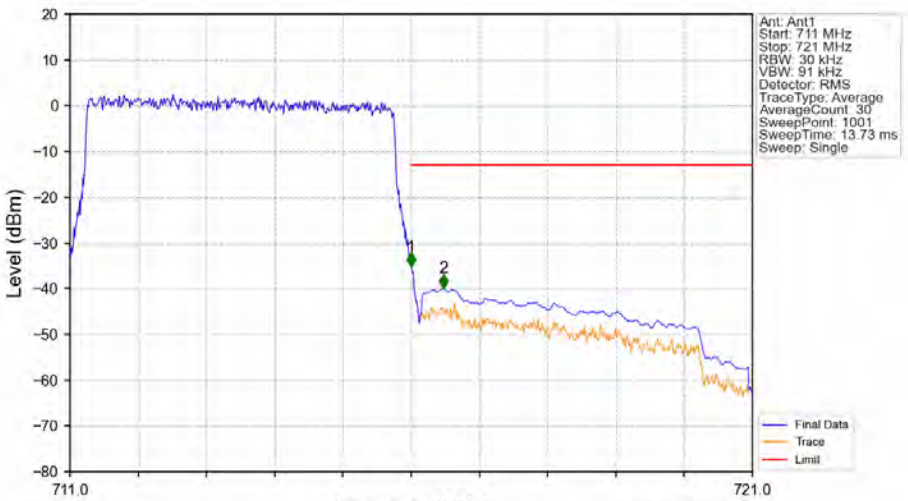


Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



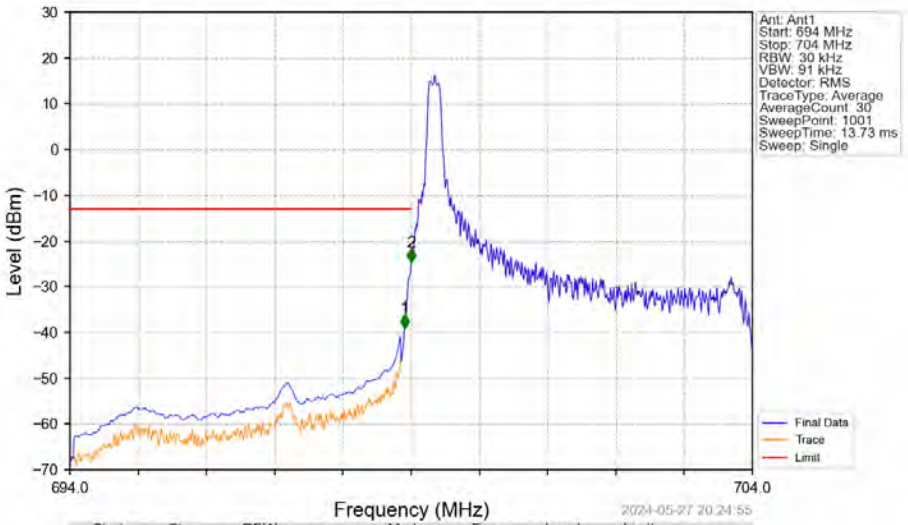
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-22.61	-13	Pass
716.1	721	0.1	CHP	2	716.110	-39.43	-13	Pass

Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



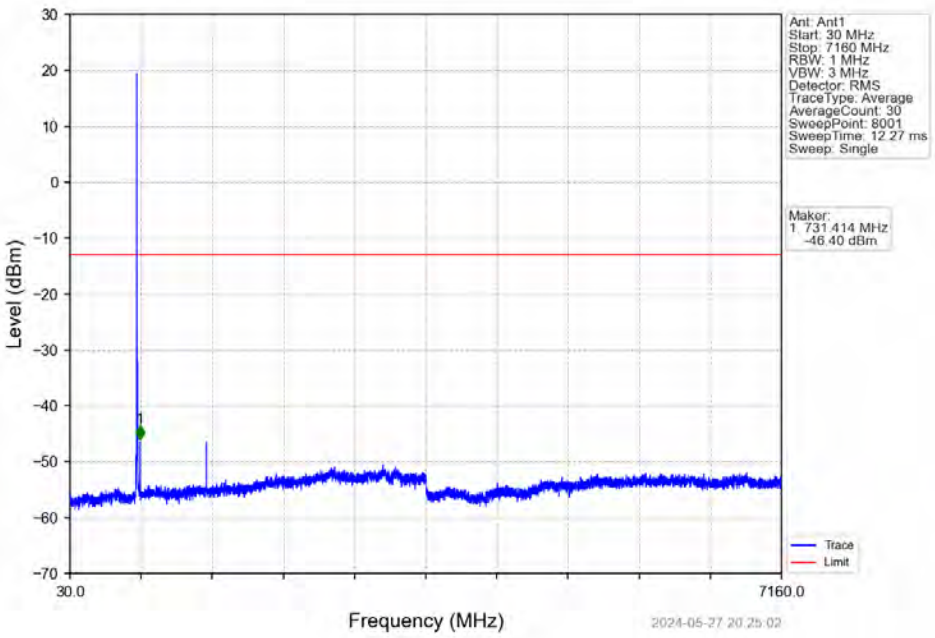
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-35.19	-13	Pass
716.1	721	0.1	CHP	2	716.470	-39.87	-13	Pass

Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV

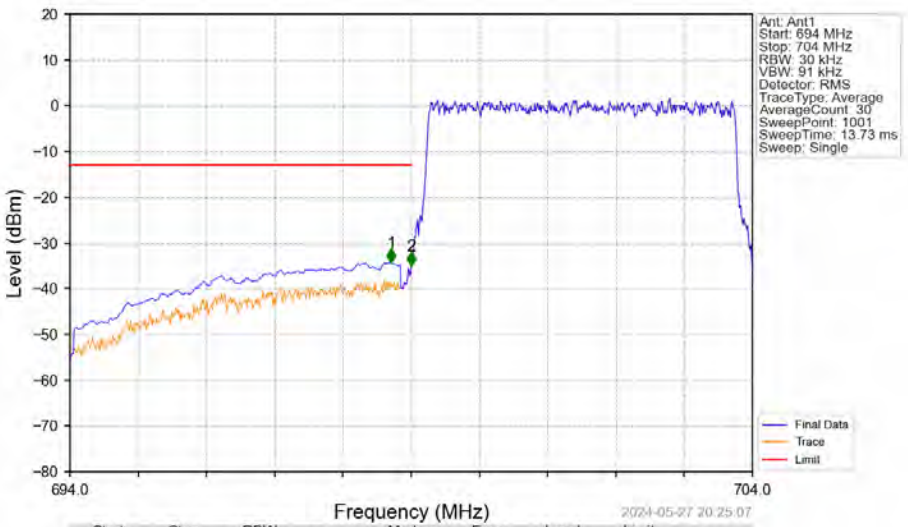


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.900	-39.04	-13	Pass
698.9	699	0.03	/	2	699.000	-24.71	-13	Pass
699	704	0.03	/	/	/	/	/	/

Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV

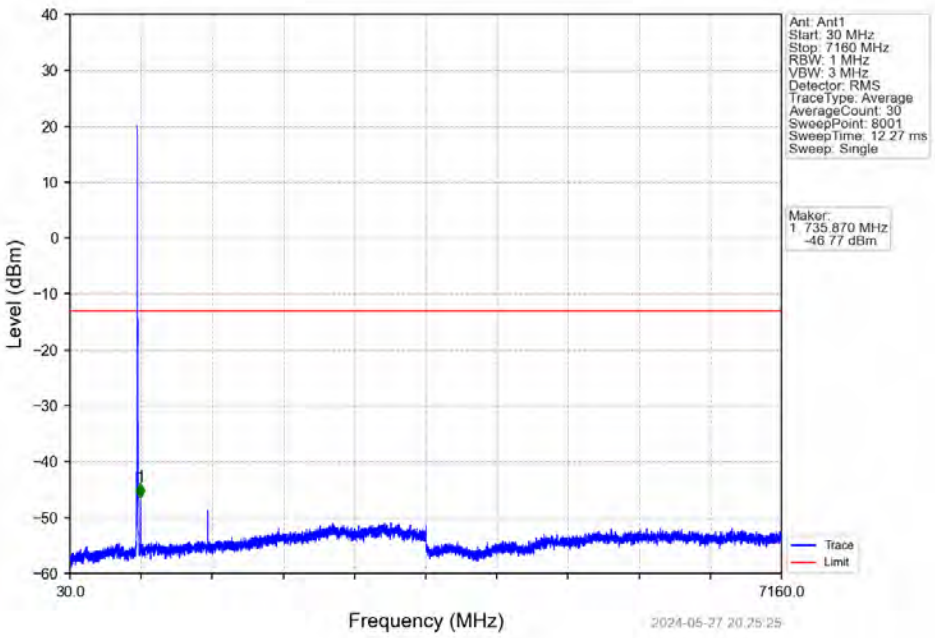


Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

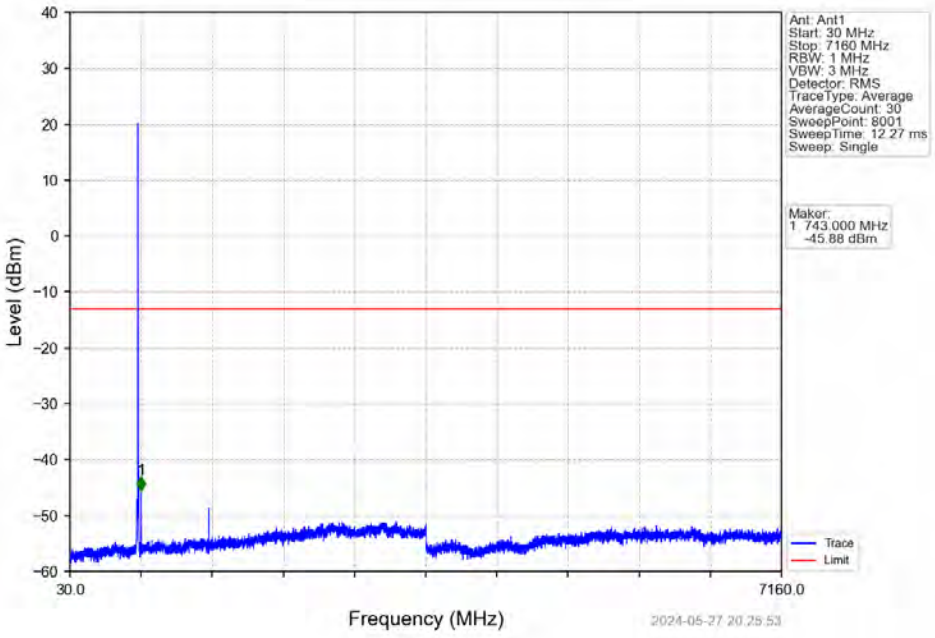


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.710	-34.30	-13	Pass
698.9	699	0.03	/	2	699.000	-35.09	-13	Pass
699	704	0.03	/	/	/	/	/	/

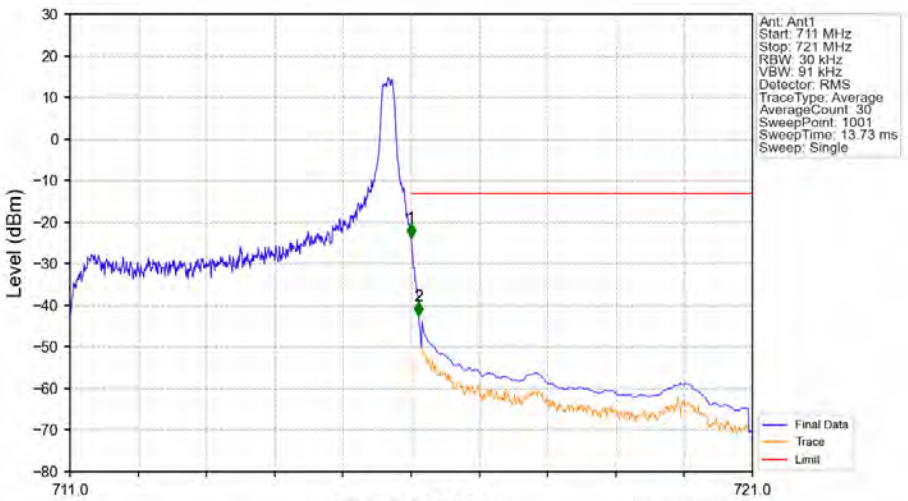
Band12_5MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

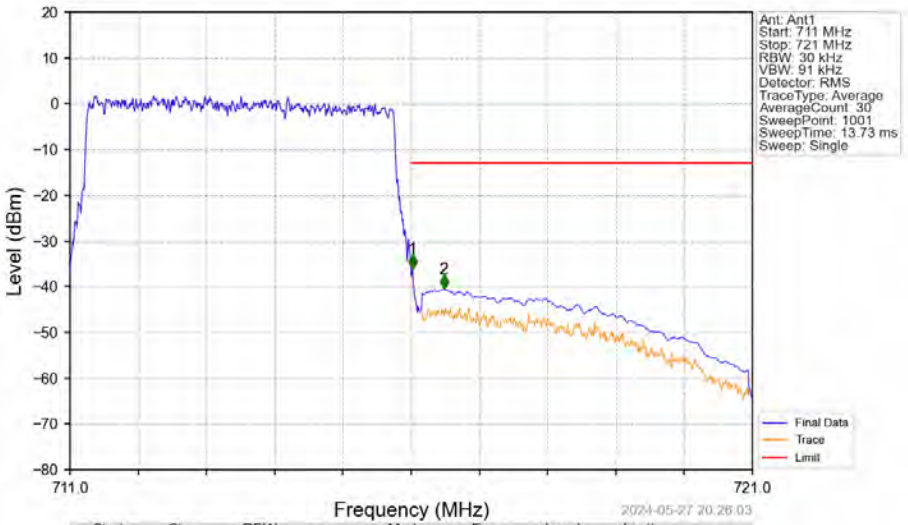


Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



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	716.000	-23.68	-13	Pass
716.1	721	0.1	CHP	2	716.110	-42.58	-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	716.020	-36.16	-13	Pass
716.1	721	0.1	CHP	2	716.480	-40.54	-13	Pass

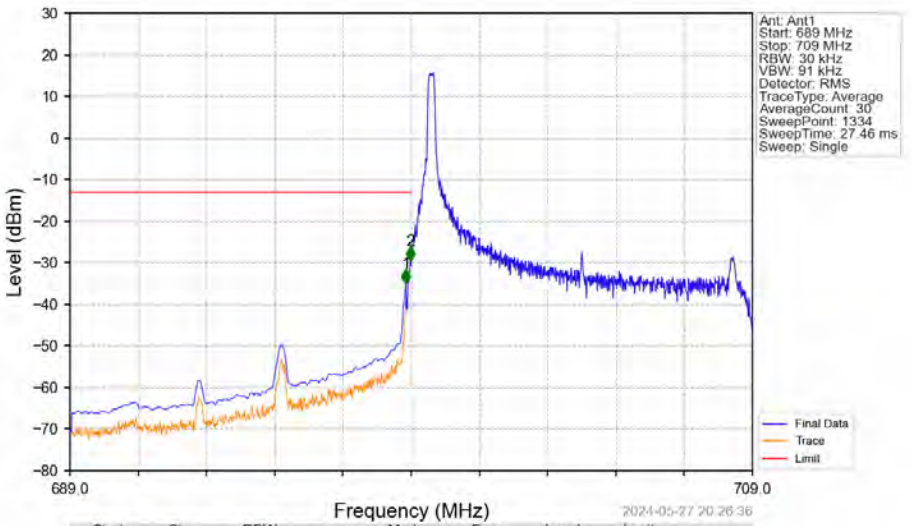
6.4 B12_10MHz

6.4.1 Test Result

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

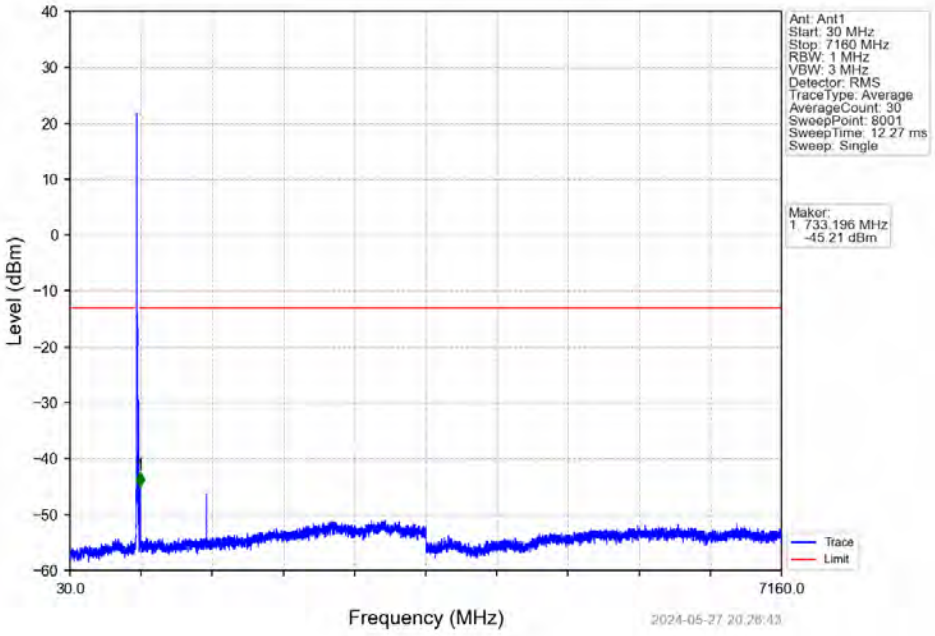
6.4.2 Test Graph

Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV

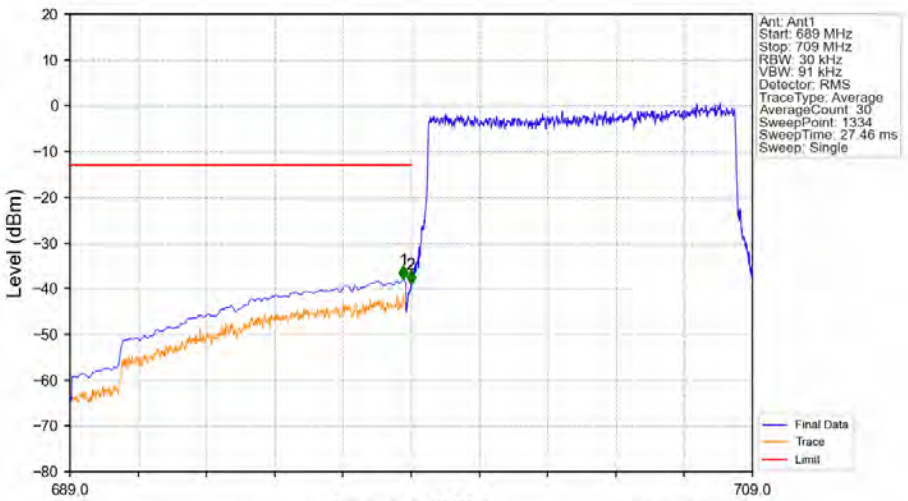


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-35.05	-13	Pass
698.9	699	0.03	/	2	698.977	-29.50	-13	Pass
699	709	0.03	/	/	/	/	/	/

Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV

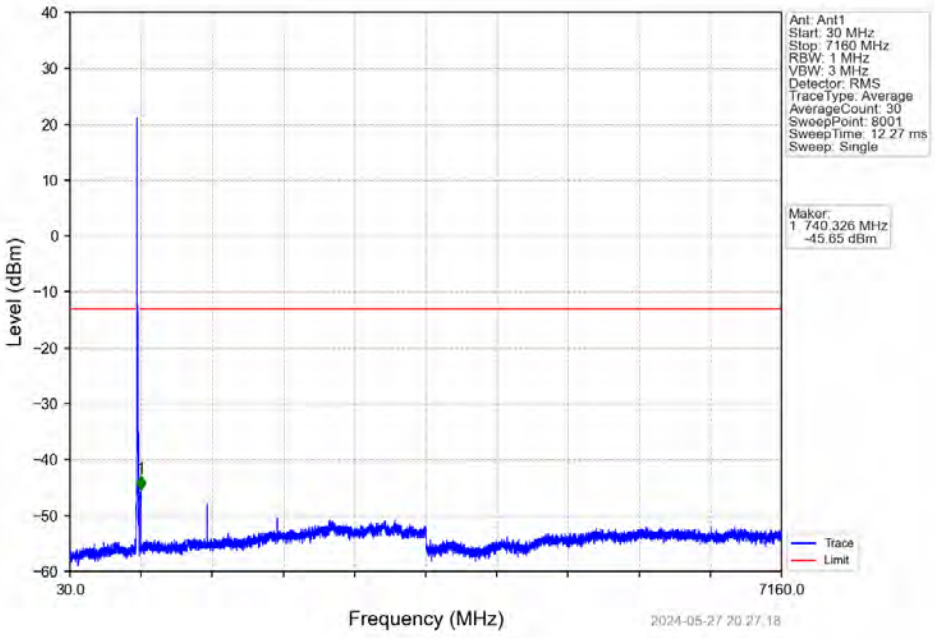


Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

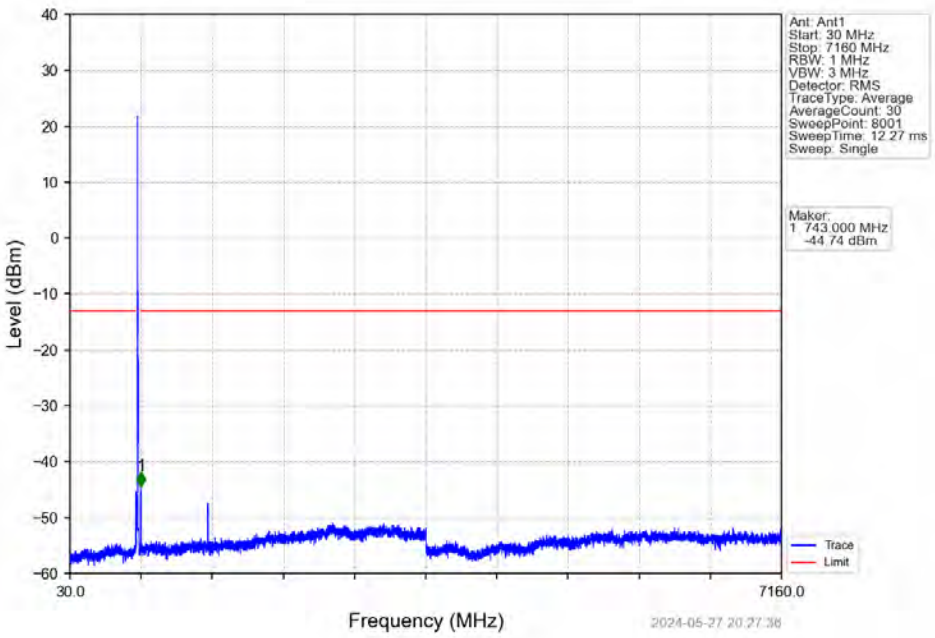


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.767	-37.99	-13	Pass
698.9	699	0.03	/	2	698.992	-39.05	-13	Pass
699	709	0.03	/	/	/	/	/	/

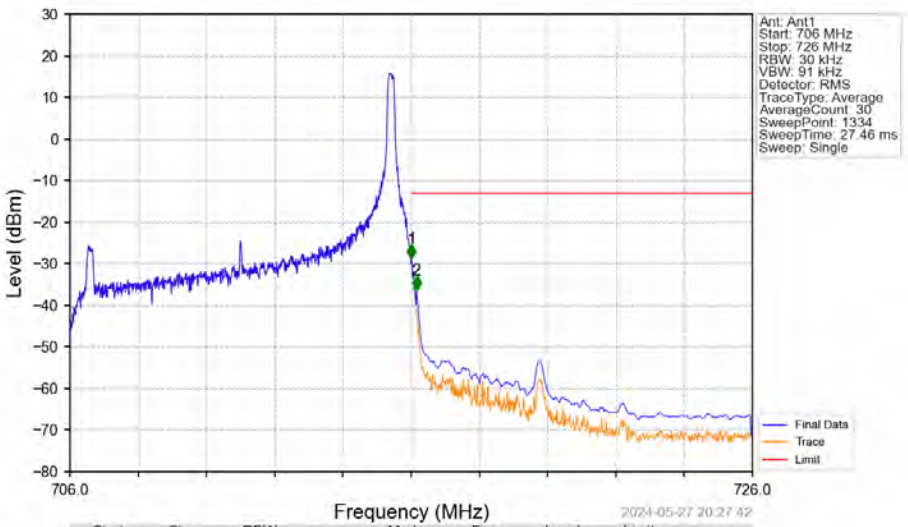
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

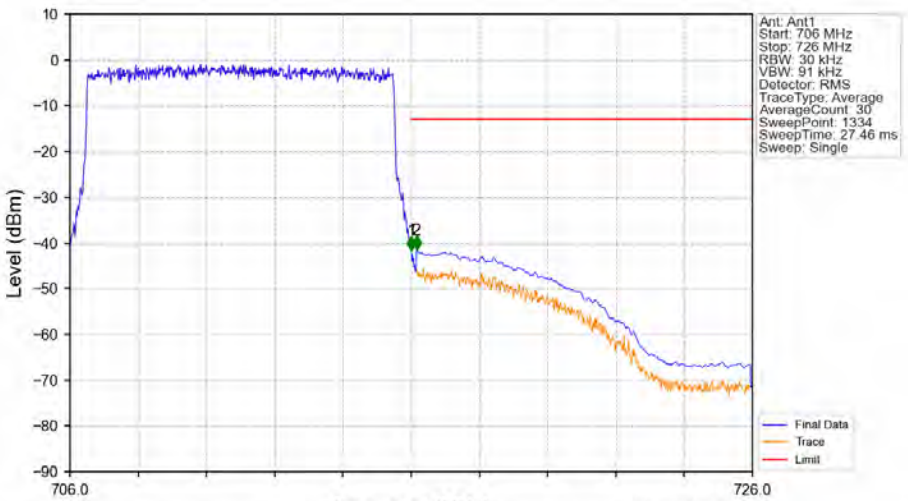


Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



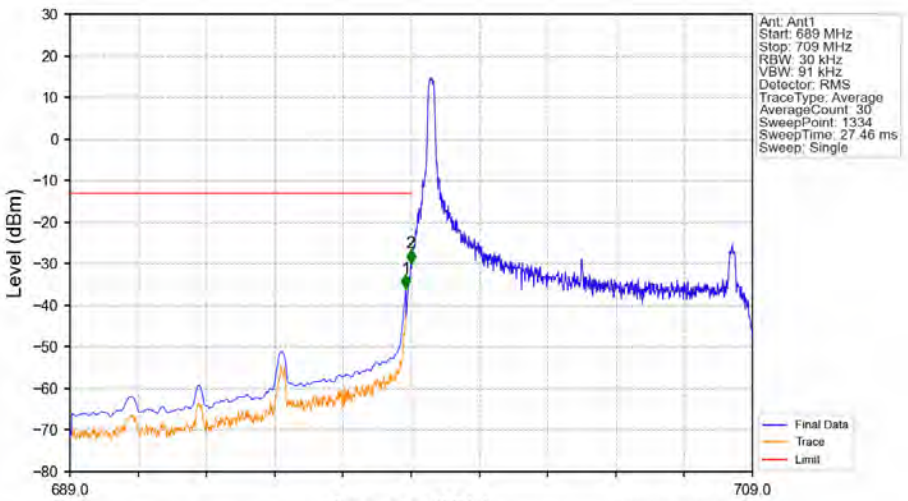
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-28.87	-13	Pass
716.1	726	0.1	CHP	2	716.158	-36.44	-13	Pass

Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



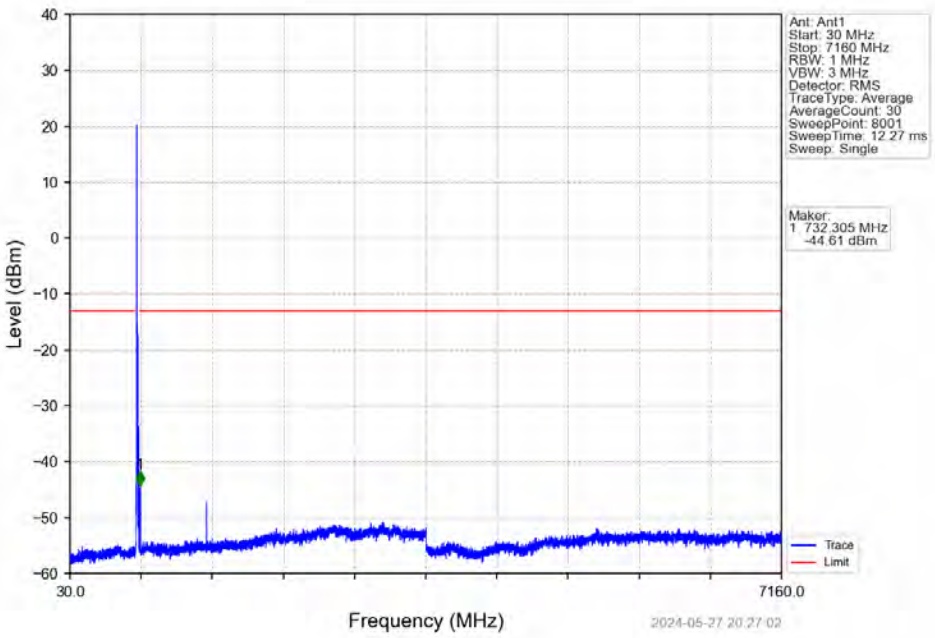
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-41.60	-13	Pass
716.1	726	0.1	CHP	2	716.158	-41.53	-13	Pass

Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV

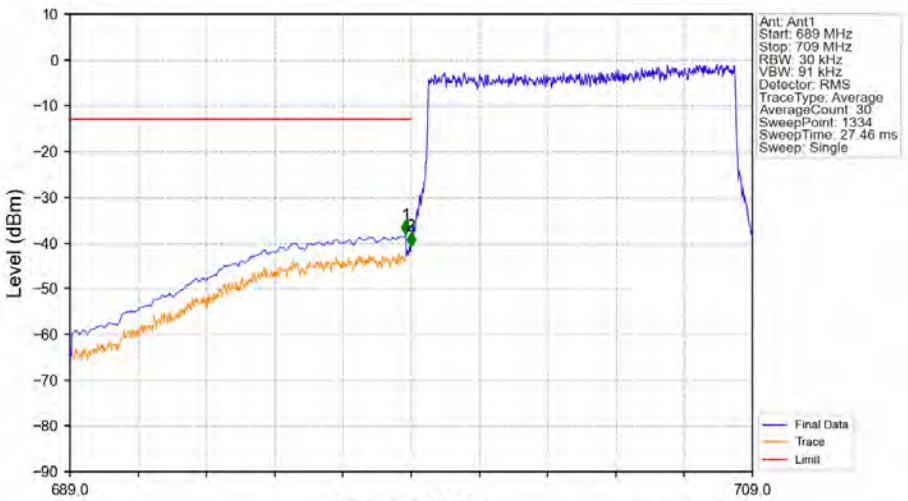


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-35.96	-13	Pass
698.9	699	0.03	/	2	698.992	-29.87	-13	Pass
699	709	0.03	/	/	/	/	/	/

Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV

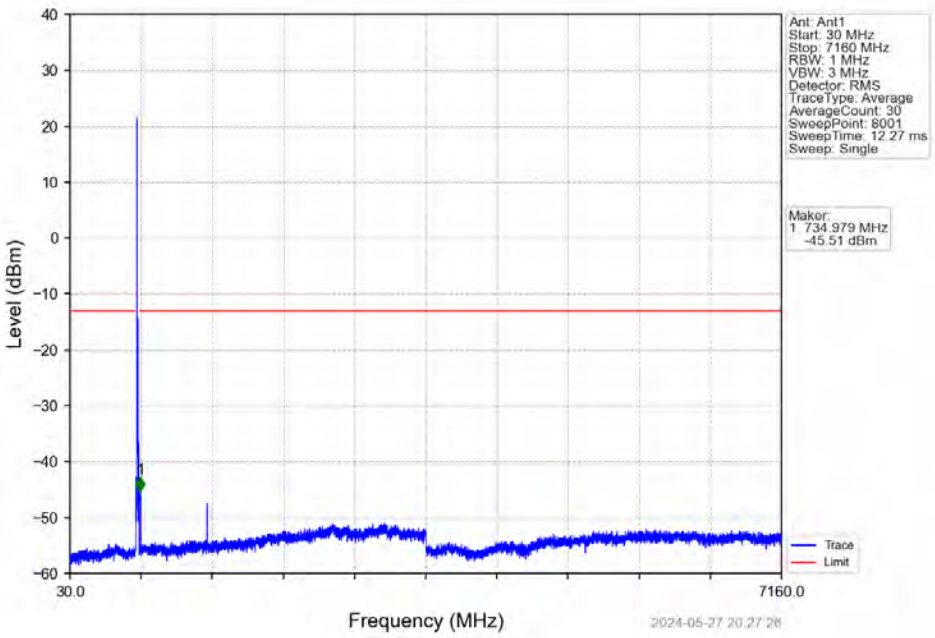


Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV

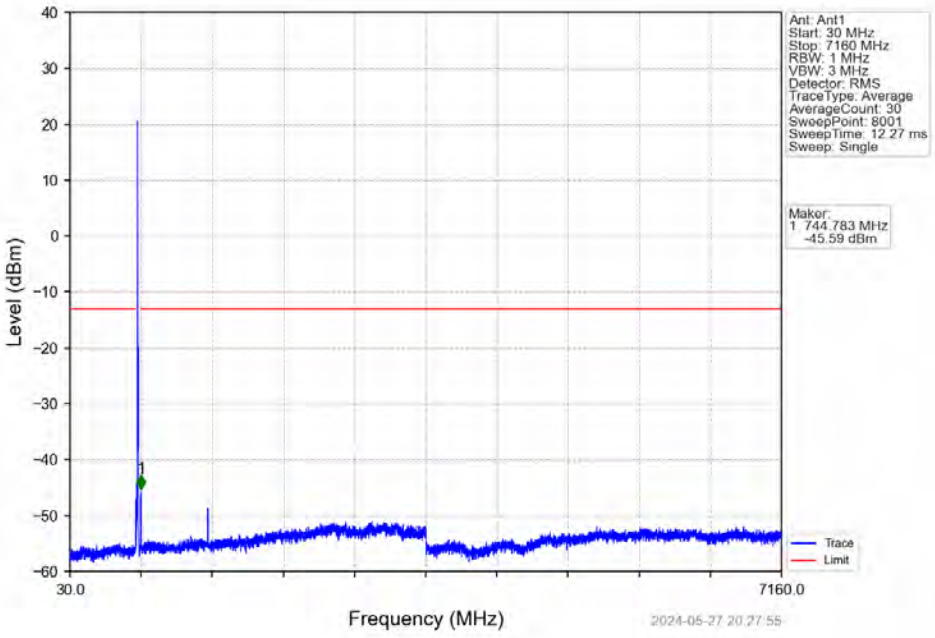


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-38.10	-13	Pass
698.9	699	0.03	/	2	698.992	-40.73	-13	Pass
699	709	0.03	/	/	/	/	/	/

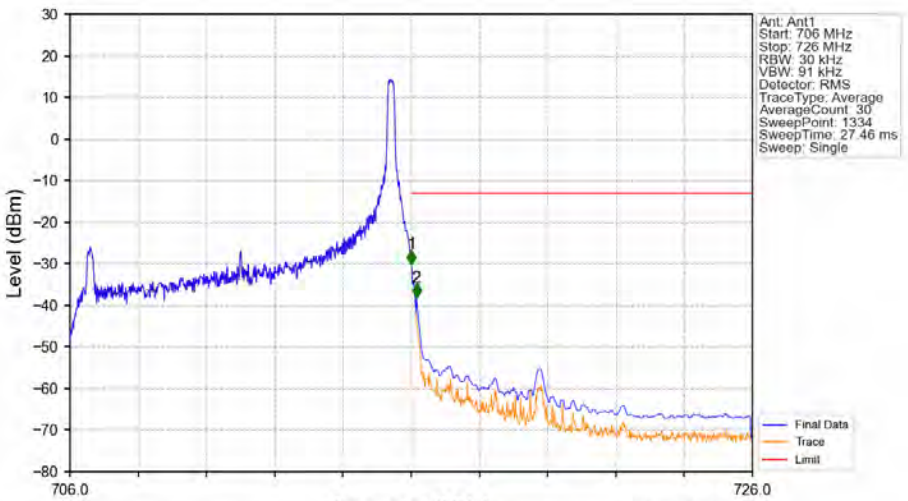
Band12_10MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV

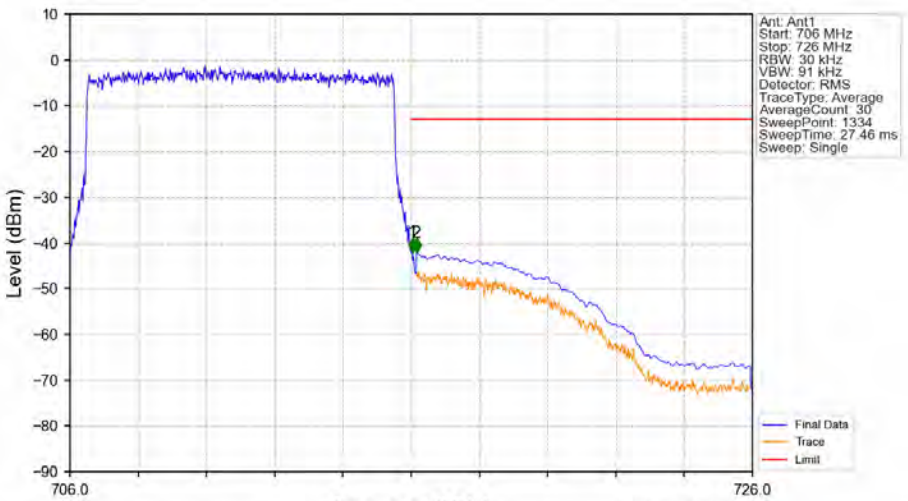


Band12_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



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	-30.06	-13	Pass
716.1	726	0.1	CHP	2	716.158	-38.07	-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	-41.94	-13	Pass
716.1	726	0.1	CHP	2	716.158	-42.09	-13	Pass

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	0.2032	0.0692	ppm	1M12G7D	27H	23.08
12	1.4	699.7	715.3	0.1667	0.0617	ppm	1M12W7D	27H	22.22
12	3	700.5	714.5	0.1991	0.0671	ppm	2M75G7D	27H	22.99
12	3	700.5	714.5	0.1652	0.0566	ppm	2M77W7D	27H	22.18
12	5	701.5	713.5	0.2023	0.0596	ppm	4M56G7D	27H	23.06
12	5	701.5	713.5	0.1652	0.0654	ppm	4M57W7D	27H	22.18
12	10	704	711	0.1936	0.0450	ppm	9M12G7D	27H	22.87
12	10	704	711	0.1803	0.0665	ppm	9M11W7D	27H	22.56

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	0.0893	0.0692	ppm	1M12G7D	27H	19.51
12	1.4	699.7	715.3	0.0733	0.0617	ppm	1M12W7D	27H	18.65
12	3	700.5	714.5	0.0875	0.0671	ppm	2M75G7D	27H	19.42
12	3	700.5	714.5	0.0726	0.0566	ppm	2M77W7D	27H	18.61
12	5	701.5	713.5	0.0889	0.0596	ppm	4M56G7D	27H	19.49
12	5	701.5	713.5	0.0726	0.0654	ppm	4M57W7D	27H	18.61
12	10	704	711	0.0851	0.0450	ppm	9M12G7D	27H	19.30
12	10	704	711	0.0793	0.0665	ppm	9M11W7D	27H	18.99