

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	24.19	-1.58	20.46	<=34.77	Pass
			2	23.87	-1.58	20.14	<=34.77	Pass
			5	23.73	-1.58	20.00	<=34.77	Pass
		3	0	23.76	-1.58	20.03	<=34.77	Pass
			2	23.74	-1.58	20.01	<=34.77	Pass
			3	23.78	-1.58	20.05	<=34.77	Pass
		6	0	22.74	-1.58	19.01	<=34.77	Pass
	707.5	1	0	24.14	-1.58	20.41	<=34.77	Pass
			2	23.87	-1.58	20.14	<=34.77	Pass
			5	23.63	-1.58	19.90	<=34.77	Pass
		3	0	23.80	-1.58	20.07	<=34.77	Pass
			2	23.75	-1.58	20.02	<=34.77	Pass
			3	23.79	-1.58	20.06	<=34.77	Pass
		6	0	22.76	-1.58	19.03	<=34.77	Pass
	715.3	1	0	23.73	-1.58	20.00	<=34.77	Pass
			2	23.93	-1.58	20.20	<=34.77	Pass
			5	23.74	-1.58	20.01	<=34.77	Pass
		3	0	23.80	-1.58	20.07	<=34.77	Pass
			2	23.79	-1.58	20.06	<=34.77	Pass
			3	23.77	-1.58	20.04	<=34.77	Pass
		6	0	22.76	-1.58	19.03	<=34.77	Pass
16QAM	699.7	1	0	23.00	-1.58	19.27	<=34.77	Pass
			2	23.17	-1.58	19.44	<=34.77	Pass
			5	22.97	-1.58	19.24	<=34.77	Pass
		3	0	22.77	-1.58	19.04	<=34.77	Pass
			2	22.76	-1.58	19.03	<=34.77	Pass
			3	22.81	-1.58	19.08	<=34.77	Pass
		6	0	21.71	-1.58	17.98	<=34.77	Pass
	707.5	1	0	22.68	-1.58	18.95	<=34.77	Pass
			2	22.85	-1.58	19.12	<=34.77	Pass
			5	22.67	-1.58	18.94	<=34.77	Pass
		3	0	22.88	-1.58	19.15	<=34.77	Pass
			2	22.80	-1.58	19.07	<=34.77	Pass
			3	22.85	-1.58	19.12	<=34.77	Pass
		6	0	21.81	-1.58	18.08	<=34.77	Pass
	715.3	1	0	23.01	-1.58	19.28	<=34.77	Pass
			2	23.22	-1.58	19.49	<=34.77	Pass
			5	22.98	-1.58	19.25	<=34.77	Pass
		3	0	22.84	-1.58	19.11	<=34.77	Pass
			2	22.77	-1.58	19.04	<=34.77	Pass
			3	22.88	-1.58	19.15	<=34.77	Pass
		6	0	21.80	-1.58	18.07	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B12_3MHz_ERP

Band: 12 / Bandwidth: 3MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	23.66	-1.58	19.93	<=34.77	Pass
			7	23.57	-1.58	19.84	<=34.77	Pass
			14	23.69	-1.58	19.96	<=34.77	Pass
		8	0	22.68	-1.58	18.95	<=34.77	Pass
			4	22.76	-1.58	19.03	<=34.77	Pass
			7	22.70	-1.58	18.97	<=34.77	Pass
		15	0	22.68	-1.58	18.95	<=34.77	Pass
	707.5	1	0	23.76	-1.58	20.03	<=34.77	Pass
			7	23.61	-1.58	19.88	<=34.77	Pass
			14	23.76	-1.58	20.03	<=34.77	Pass
		8	0	22.72	-1.58	18.99	<=34.77	Pass
			4	22.76	-1.58	19.03	<=34.77	Pass
			7	22.73	-1.58	19.00	<=34.77	Pass
		15	0	22.68	-1.58	18.95	<=34.77	Pass
	714.5	1	0	23.78	-1.58	20.05	<=34.77	Pass
			7	23.75	-1.58	20.02	<=34.77	Pass
			14	23.88	-1.58	20.15	<=34.77	Pass
		8	0	22.71	-1.58	18.98	<=34.77	Pass
			4	22.77	-1.58	19.04	<=34.77	Pass
			7	22.71	-1.58	18.98	<=34.77	Pass
		15	0	22.69	-1.58	18.96	<=34.77	Pass
16QAM	700.5	1	0	22.67	-1.58	18.94	<=34.77	Pass
			7	22.56	-1.58	18.83	<=34.77	Pass
			14	22.75	-1.58	19.02	<=34.77	Pass
		8	0	21.66	-1.58	17.93	<=34.77	Pass
			4	21.72	-1.58	17.99	<=34.77	Pass
			7	21.66	-1.58	17.93	<=34.77	Pass
		15	0	21.61	-1.58	17.88	<=34.77	Pass
	707.5	1	0	23.10	-1.58	19.37	<=34.77	Pass
			7	22.94	-1.58	19.21	<=34.77	Pass
			14	23.08	-1.58	19.35	<=34.77	Pass
		8	0	21.78	-1.58	18.05	<=34.77	Pass
			4	21.86	-1.58	18.13	<=34.77	Pass
			7	21.75	-1.58	18.02	<=34.77	Pass
		15	0	21.75	-1.58	18.02	<=34.77	Pass
	714.5	1	0	22.69	-1.58	18.96	<=34.77	Pass
			7	22.56	-1.58	18.83	<=34.77	Pass
			14	22.63	-1.58	18.90	<=34.77	Pass
		8	0	21.73	-1.58	18.00	<=34.77	Pass
			4	21.79	-1.58	18.06	<=34.77	Pass
			7	21.73	-1.58	18.00	<=34.77	Pass
		15	0	21.78	-1.58	18.05	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.3 B12_5MHz_ERP

Band: 12 / Bandwidth: 5MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	23.51	-1.58	19.78	<=34.77	Pass
			13	23.67	-1.58	19.94	<=34.77	Pass
			24	23.63	-1.58	19.90	<=34.77	Pass
		12	0	22.71	-1.58	18.98	<=34.77	Pass
			6	22.76	-1.58	19.03	<=34.77	Pass
			13	22.71	-1.58	18.98	<=34.77	Pass
		25	0	22.72	-1.58	18.99	<=34.77	Pass
	707.5	1	0	23.60	-1.58	19.87	<=34.77	Pass
			13	23.69	-1.58	19.96	<=34.77	Pass
			24	23.63	-1.58	19.90	<=34.77	Pass
		12	0	22.67	-1.58	18.94	<=34.77	Pass
			6	22.75	-1.58	19.02	<=34.77	Pass
			13	22.77	-1.58	19.04	<=34.77	Pass
		25	0	22.71	-1.58	18.98	<=34.77	Pass
	713.5	1	0	23.60	-1.58	19.87	<=34.77	Pass
			13	23.73	-1.58	20.00	<=34.77	Pass
			24	23.64	-1.58	19.91	<=34.77	Pass
		12	0	22.79	-1.58	19.06	<=34.77	Pass
			6	22.77	-1.58	19.04	<=34.77	Pass
			13	22.67	-1.58	18.94	<=34.77	Pass
		25	0	22.73	-1.58	19.00	<=34.77	Pass
16QAM	701.5	1	0	22.63	-1.58	18.90	<=34.77	Pass
			13	22.82	-1.58	19.09	<=34.77	Pass
			24	22.80	-1.58	19.07	<=34.77	Pass
		12	0	21.69	-1.58	17.96	<=34.77	Pass
			6	21.75	-1.58	18.02	<=34.77	Pass
			13	21.69	-1.58	17.96	<=34.77	Pass
		25	0	21.68	-1.58	17.95	<=34.77	Pass
	707.5	1	0	22.57	-1.58	18.84	<=34.77	Pass
			13	22.66	-1.58	18.93	<=34.77	Pass
			24	22.56	-1.58	18.83	<=34.77	Pass
		12	0	21.73	-1.58	18.00	<=34.77	Pass
			6	21.81	-1.58	18.08	<=34.77	Pass
			13	21.81	-1.58	18.08	<=34.77	Pass
		25	0	21.81	-1.58	18.08	<=34.77	Pass
	713.5	1	0	23.03	-1.58	19.30	<=34.77	Pass
			13	23.14	-1.58	19.41	<=34.77	Pass
			24	23.00	-1.58	19.27	<=34.77	Pass
		12	0	21.78	-1.58	18.05	<=34.77	Pass
			6	21.78	-1.58	18.05	<=34.77	Pass
			13	21.69	-1.58	17.96	<=34.77	Pass
		25	0	21.78	-1.58	18.05	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.4 B12_10MHz_ERP

Band: 12 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	704	1	0	23.56	-1.58	19.83	<=34.77	Pass
			25	23.76	-1.58	20.03	<=34.77	Pass
			49	23.66	-1.58	19.93	<=34.77	Pass
		25	0	22.84	-1.58	19.11	<=34.77	Pass
			13	22.78	-1.58	19.05	<=34.77	Pass
			25	22.87	-1.58	19.14	<=34.77	Pass
		50	0	22.82	-1.58	19.09	<=34.77	Pass
			0	23.65	-1.58	19.92	<=34.77	Pass
			25	23.82	-1.58	20.09	<=34.77	Pass
	707.5	1	49	23.81	-1.58	20.08	<=34.77	Pass
			0	22.79	-1.58	19.06	<=34.77	Pass
			13	22.74	-1.58	19.01	<=34.77	Pass
		25	25	22.80	-1.58	19.07	<=34.77	Pass
			0	22.79	-1.58	19.06	<=34.77	Pass
			0	23.68	-1.58	19.95	<=34.77	Pass
		50	25	23.88	-1.58	20.15	<=34.77	Pass
			49	23.84	-1.58	20.11	<=34.77	Pass
			0	22.68	-1.58	18.95	<=34.77	Pass
16QAM	704	1	13	22.77	-1.58	19.04	<=34.77	Pass
			25	22.62	-1.58	18.89	<=34.77	Pass
			0	22.67	-1.58	18.94	<=34.77	Pass
		25	0	22.62	-1.58	18.89	<=34.77	Pass
			25	22.82	-1.58	19.09	<=34.77	Pass
			49	22.70	-1.58	18.97	<=34.77	Pass
		50	0	21.87	-1.58	18.14	<=34.77	Pass
			13	21.84	-1.58	18.11	<=34.77	Pass
			25	21.89	-1.58	18.16	<=34.77	Pass
	707.5	1	0	21.84	-1.58	18.11	<=34.77	Pass
			0	23.06	-1.58	19.33	<=34.77	Pass
			25	23.12	-1.58	19.39	<=34.77	Pass
		25	49	23.13	-1.58	19.40	<=34.77	Pass
			0	21.80	-1.58	18.07	<=34.77	Pass
			13	21.80	-1.58	18.07	<=34.77	Pass
		50	25	21.79	-1.58	18.06	<=34.77	Pass
			0	21.81	-1.58	18.08	<=34.77	Pass
			0	22.61	-1.58	18.88	<=34.77	Pass
	711	1	25	22.71	-1.58	18.98	<=34.77	Pass
			49	22.65	-1.58	18.92	<=34.77	Pass
			0	21.74	-1.58	18.01	<=34.77	Pass
		25	13	21.82	-1.58	18.09	<=34.77	Pass
			25	21.74	-1.58	18.01	<=34.77	Pass
			0	21.69	-1.58	17.96	<=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	-7.911	-0.0113	-2.5 to 2.5	Pass
					3.85	-9.613	-0.0137	-2.5 to 2.5	Pass
					4.43	-3.333	-0.0048	-2.5 to 2.5	Pass
				-30	3.85	0.286	0.0004	-2.5 to 2.5	Pass
				-20	3.85	-2.918	-0.0042	-2.5 to 2.5	Pass
				-10	3.85	-2.017	-0.0029	-2.5 to 2.5	Pass
				0	3.85	-5.736	-0.0082	-2.5 to 2.5	Pass
				10	3.85	-6.952	-0.0099	-2.5 to 2.5	Pass
				30	3.85	-6.680	-0.0095	-2.5 to 2.5	Pass
				40	3.85	0.043	0.0001	-2.5 to 2.5	Pass
				50	3.85	-5.779	-0.0083	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-6.666	-0.0094	-2.5 to 2.5	Pass
					3.85	-4.764	-0.0067	-2.5 to 2.5	Pass
					4.43	-6.394	-0.0090	-2.5 to 2.5	Pass
				-30	3.85	-0.830	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-4.864	-0.0069	-2.5 to 2.5	Pass
				-10	3.85	-3.104	-0.0044	-2.5 to 2.5	Pass
				0	3.85	-2.546	-0.0036	-2.5 to 2.5	Pass
				10	3.85	-7.424	-0.0105	-2.5 to 2.5	Pass
				30	3.85	-5.608	-0.0079	-2.5 to 2.5	Pass
				40	3.85	-8.583	-0.0121	-2.5 to 2.5	Pass
				50	3.85	-3.662	-0.0052	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-3.705	-0.0052	-2.5 to 2.5	Pass
					3.85	-6.351	-0.0089	-2.5 to 2.5	Pass
					4.43	-3.333	-0.0047	-2.5 to 2.5	Pass
				-30	3.85	-10.657	-0.0149	-2.5 to 2.5	Pass
				-20	3.85	-6.852	-0.0096	-2.5 to 2.5	Pass
				-10	3.85	-9.198	-0.0129	-2.5 to 2.5	Pass
				0	3.85	-6.094	-0.0085	-2.5 to 2.5	Pass
				10	3.85	-4.363	-0.0061	-2.5 to 2.5	Pass
				30	3.85	-5.136	-0.0072	-2.5 to 2.5	Pass
				40	3.85	-11.230	-0.0157	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	-2.933	-0.0042	-2.5 to 2.5	Pass
					3.85	-7.839	-0.0112	-2.5 to 2.5	Pass
					4.43	-1.416	-0.0020	-2.5 to 2.5	Pass
				-30	3.85	-7.725	-0.0110	-2.5 to 2.5	Pass
				-20	3.85	-2.990	-0.0043	-2.5 to 2.5	Pass
				-10	3.85	-6.065	-0.0087	-2.5 to 2.5	Pass
				0	3.85	-6.852	-0.0098	-2.5 to 2.5	Pass
				10	3.85	-5.922	-0.0085	-2.5 to 2.5	Pass
				30	3.85	-4.821	-0.0069	-2.5 to 2.5	Pass
				40	3.85	-8.011	-0.0114	-2.5 to 2.5	Pass
				50	3.85	-3.233	-0.0046	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-6.838	-0.0097	-2.5 to 2.5	Pass
					3.85	-8.383	-0.0118	-2.5 to 2.5	Pass
					4.43	-4.363	-0.0062	-2.5 to 2.5	Pass
				-30	3.85	-4.678	-0.0066	-2.5 to 2.5	Pass
				-20	3.85	-4.649	-0.0066	-2.5 to 2.5	Pass
				-10	3.85	-5.808	-0.0082	-2.5 to 2.5	Pass

				0	3.85	-6.523	-0.0092	-2.5 to 2.5	Pass
				10	3.85	-0.429	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-5.951	-0.0084	-2.5 to 2.5	Pass
				40	3.85	-4.020	-0.0057	-2.5 to 2.5	Pass
				50	3.85	-6.738	-0.0095	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-5.865	-0.0082	-2.5 to 2.5	Pass
					3.85	-4.964	-0.0069	-2.5 to 2.5	Pass
					4.43	-2.389	-0.0033	-2.5 to 2.5	Pass
				-30	3.85	-6.781	-0.0095	-2.5 to 2.5	Pass
				-20	3.85	-6.022	-0.0084	-2.5 to 2.5	Pass
				-10	3.85	-7.067	-0.0099	-2.5 to 2.5	Pass
				0	3.85	-7.596	-0.0106	-2.5 to 2.5	Pass
				10	3.85	-4.005	-0.0056	-2.5 to 2.5	Pass
				30	3.85	-7.925	-0.0111	-2.5 to 2.5	Pass
				40	3.85	-2.475	-0.0035	-2.5 to 2.5	Pass
				50	3.85	-5.436	-0.0076	-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	-10.314	-0.0147	-2.5 to 2.5	Pass
					3.85	-5.679	-0.0081	-2.5 to 2.5	Pass
					4.43	-11.559	-0.0165	-2.5 to 2.5	Pass
				-30	3.85	-4.091	-0.0058	-2.5 to 2.5	Pass
				-20	3.85	-8.783	-0.0125	-2.5 to 2.5	Pass
				-10	3.85	-6.952	-0.0099	-2.5 to 2.5	Pass
				0	3.85	-5.708	-0.0081	-2.5 to 2.5	Pass
				10	3.85	-8.640	-0.0123	-2.5 to 2.5	Pass
				30	3.85	-5.393	-0.0077	-2.5 to 2.5	Pass
				40	3.85	-7.195	-0.0103	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-4.563	-0.0064	-2.5 to 2.5	Pass
					3.85	-4.921	-0.0070	-2.5 to 2.5	Pass
					4.43	-3.448	-0.0049	-2.5 to 2.5	Pass
				-30	3.85	-6.838	-0.0097	-2.5 to 2.5	Pass
				-20	3.85	-3.877	-0.0055	-2.5 to 2.5	Pass
				-10	3.85	-4.506	-0.0064	-2.5 to 2.5	Pass
				0	3.85	-4.563	-0.0064	-2.5 to 2.5	Pass
				10	3.85	-7.195	-0.0102	-2.5 to 2.5	Pass
				30	3.85	-7.324	-0.0104	-2.5 to 2.5	Pass
				40	3.85	-5.522	-0.0078	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-10.057	-0.0141	-2.5 to 2.5	Pass
					3.85	-9.456	-0.0132	-2.5 to 2.5	Pass
					4.43	-7.825	-0.0110	-2.5 to 2.5	Pass
				-30	3.85	-7.696	-0.0108	-2.5 to 2.5	Pass
				-20	3.85	-3.519	-0.0049	-2.5 to 2.5	Pass
				-10	3.85	-8.984	-0.0126	-2.5 to 2.5	Pass
				0	3.85	-7.868	-0.0110	-2.5 to 2.5	Pass
				10	3.85	-8.283	-0.0116	-2.5 to 2.5	Pass
				30	3.85	-5.293	-0.0074	-2.5 to 2.5	Pass
				40	3.85	-3.433	-0.0048	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	-8.898	-0.0127	-2.5 to 2.5	Pass
					3.85	-1.616	-0.0023	-2.5 to 2.5	Pass
					4.43	-3.619	-0.0052	-2.5 to 2.5	Pass

				-30	3.85	-11.072	-0.0158	-2.5 to 2.5	Pass
				-20	3.85	-7.238	-0.0103	-2.5 to 2.5	Pass
				-10	3.85	-4.563	-0.0065	-2.5 to 2.5	Pass
				0	3.85	-7.968	-0.0114	-2.5 to 2.5	Pass
				10	3.85	-8.755	-0.0125	-2.5 to 2.5	Pass
				30	3.85	-3.934	-0.0056	-2.5 to 2.5	Pass
				40	3.85	-7.324	-0.0105	-2.5 to 2.5	Pass
				50	3.85	-4.692	-0.0067	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-4.821	-0.0068	-2.5 to 2.5	Pass
					3.85	-2.990	-0.0042	-2.5 to 2.5	Pass
					4.43	-2.689	-0.0038	-2.5 to 2.5	Pass
				-30	3.85	-7.339	-0.0104	-2.5 to 2.5	Pass
				-20	3.85	-8.454	-0.0119	-2.5 to 2.5	Pass
				-10	3.85	-6.595	-0.0093	-2.5 to 2.5	Pass
				0	3.85	-3.920	-0.0055	-2.5 to 2.5	Pass
				10	3.85	-6.008	-0.0085	-2.5 to 2.5	Pass
				30	3.85	-6.580	-0.0093	-2.5 to 2.5	Pass
				40	3.85	-3.848	-0.0054	-2.5 to 2.5	Pass
				50	3.85	-5.193	-0.0073	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-8.469	-0.0119	-2.5 to 2.5	Pass
					3.85	-8.912	-0.0125	-2.5 to 2.5	Pass
					4.43	-6.495	-0.0091	-2.5 to 2.5	Pass
				-30	3.85	-8.883	-0.0124	-2.5 to 2.5	Pass
				-20	3.85	-5.808	-0.0081	-2.5 to 2.5	Pass
				-10	3.85	-4.892	-0.0068	-2.5 to 2.5	Pass
				0	3.85	-8.297	-0.0116	-2.5 to 2.5	Pass
				10	3.85	-8.268	-0.0116	-2.5 to 2.5	Pass
				30	3.85	-11.830	-0.0166	-2.5 to 2.5	Pass
				40	3.85	-10.371	-0.0145	-2.5 to 2.5	Pass
				50	3.85	-1.173	-0.0016	-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	-4.463	-0.0064	-2.5 to 2.5	Pass
					3.85	-9.055	-0.0129	-2.5 to 2.5	Pass
					4.43	-5.665	-0.0081	-2.5 to 2.5	Pass
				-30	3.85	-2.317	-0.0033	-2.5 to 2.5	Pass
				-20	3.85	-1.802	-0.0026	-2.5 to 2.5	Pass
				-10	3.85	-5.093	-0.0073	-2.5 to 2.5	Pass
				0	3.85	-6.695	-0.0095	-2.5 to 2.5	Pass
				10	3.85	-6.437	-0.0092	-2.5 to 2.5	Pass
				30	3.85	-5.922	-0.0084	-2.5 to 2.5	Pass
				40	3.85	-3.905	-0.0056	-2.5 to 2.5	Pass
				50	3.85	-5.708	-0.0081	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-3.376	-0.0048	-2.5 to 2.5	Pass
					3.85	-3.862	-0.0055	-2.5 to 2.5	Pass
					4.43	-7.167	-0.0101	-2.5 to 2.5	Pass
				-30	3.85	-6.866	-0.0097	-2.5 to 2.5	Pass
				-20	3.85	-6.752	-0.0095	-2.5 to 2.5	Pass
				-10	3.85	-3.419	-0.0048	-2.5 to 2.5	Pass
				0	3.85	-2.446	-0.0035	-2.5 to 2.5	Pass
				10	3.85	-3.777	-0.0053	-2.5 to 2.5	Pass
				30	3.85	-1.960	-0.0028	-2.5 to 2.5	Pass
				40	3.85	-6.137	-0.0087	-2.5 to 2.5	Pass
				50	3.85	-1.874	-0.0026	-2.5 to 2.5	Pass

	713.5	25	0	20	3.27	-7.453	-0.0104	-2.5 to 2.5	Pass
					3.85	-2.818	-0.0039	-2.5 to 2.5	Pass
					4.43	-1.202	-0.0017	-2.5 to 2.5	Pass
				-30	3.85	-8.483	-0.0119	-2.5 to 2.5	Pass
				-20	3.85	-3.419	-0.0048	-2.5 to 2.5	Pass
				-10	3.85	-4.892	-0.0069	-2.5 to 2.5	Pass
				0	3.85	-4.292	-0.0060	-2.5 to 2.5	Pass
				10	3.85	-5.493	-0.0077	-2.5 to 2.5	Pass
				30	3.85	-2.775	-0.0039	-2.5 to 2.5	Pass
				40	3.85	-3.805	-0.0053	-2.5 to 2.5	Pass
				50	3.85	-5.736	-0.0080	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-2.904	-0.0041	-2.5 to 2.5	Pass
					3.85	-6.709	-0.0096	-2.5 to 2.5	Pass
					4.43	-1.688	-0.0024	-2.5 to 2.5	Pass
				-30	3.85	-5.493	-0.0078	-2.5 to 2.5	Pass
				-20	3.85	-6.537	-0.0093	-2.5 to 2.5	Pass
				-10	3.85	-6.022	-0.0086	-2.5 to 2.5	Pass
				0	3.85	-4.063	-0.0058	-2.5 to 2.5	Pass
				10	3.85	-1.788	-0.0025	-2.5 to 2.5	Pass
				30	3.85	-3.819	-0.0054	-2.5 to 2.5	Pass
				40	3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
				50	3.85	-3.247	-0.0046	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-3.004	-0.0042	-2.5 to 2.5	Pass
					3.85	-1.745	-0.0025	-2.5 to 2.5	Pass
					4.43	-3.819	-0.0054	-2.5 to 2.5	Pass
				-30	3.85	-4.063	-0.0057	-2.5 to 2.5	Pass
				-20	3.85	-3.719	-0.0053	-2.5 to 2.5	Pass
				-10	3.85	-8.769	-0.0124	-2.5 to 2.5	Pass
				0	3.85	-6.437	-0.0091	-2.5 to 2.5	Pass
				10	3.85	-6.967	-0.0098	-2.5 to 2.5	Pass
				30	3.85	-12.159	-0.0172	-2.5 to 2.5	Pass
				40	3.85	-3.319	-0.0047	-2.5 to 2.5	Pass
				50	3.85	-2.246	-0.0032	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-3.719	-0.0052	-2.5 to 2.5	Pass
					3.85	-6.166	-0.0086	-2.5 to 2.5	Pass
					4.43	-5.765	-0.0081	-2.5 to 2.5	Pass
				-30	3.85	-7.253	-0.0102	-2.5 to 2.5	Pass
				-20	3.85	-3.419	-0.0048	-2.5 to 2.5	Pass
				-10	3.85	-6.123	-0.0086	-2.5 to 2.5	Pass
				0	3.85	-2.446	-0.0034	-2.5 to 2.5	Pass
				10	3.85	-9.799	-0.0137	-2.5 to 2.5	Pass
				30	3.85	-3.104	-0.0044	-2.5 to 2.5	Pass
				40	3.85	-5.093	-0.0071	-2.5 to 2.5	Pass
				50	3.85	-7.153	-0.0100	-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	-3.490	-0.0050	-2.5 to 2.5	Pass
					3.85	-3.419	-0.0049	-2.5 to 2.5	Pass
					4.43	-6.952	-0.0099	-2.5 to 2.5	Pass
				-30	3.85	-3.877	-0.0055	-2.5 to 2.5	Pass
				-20	3.85	-1.974	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-6.280	-0.0089	-2.5 to 2.5	Pass
				0	3.85	-5.364	-0.0076	-2.5 to 2.5	Pass
				10	3.85	-8.726	-0.0124	-2.5 to 2.5	Pass

				30	3.85	-5.279	-0.0075	-2.5 to 2.5	Pass
				40	3.85	-8.297	-0.0118	-2.5 to 2.5	Pass
				50	3.85	-4.864	-0.0069	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-9.484	-0.0134	-2.5 to 2.5	Pass
					3.85	-5.794	-0.0082	-2.5 to 2.5	Pass
					4.43	-3.734	-0.0053	-2.5 to 2.5	Pass
				-30	3.85	-2.561	-0.0036	-2.5 to 2.5	Pass
				-20	3.85	-4.663	-0.0066	-2.5 to 2.5	Pass
				-10	3.85	-4.592	-0.0065	-2.5 to 2.5	Pass
				0	3.85	-7.439	-0.0105	-2.5 to 2.5	Pass
				10	3.85	-8.254	-0.0117	-2.5 to 2.5	Pass
				30	3.85	-6.981	-0.0099	-2.5 to 2.5	Pass
				40	3.85	-4.249	-0.0060	-2.5 to 2.5	Pass
				50	3.85	-5.894	-0.0083	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-5.307	-0.0075	-2.5 to 2.5	Pass
					3.85	-8.612	-0.0121	-2.5 to 2.5	Pass
					4.43	-5.050	-0.0071	-2.5 to 2.5	Pass
				-30	3.85	-5.193	-0.0073	-2.5 to 2.5	Pass
				-20	3.85	-4.134	-0.0058	-2.5 to 2.5	Pass
				-10	3.85	-10.185	-0.0143	-2.5 to 2.5	Pass
				0	3.85	-7.982	-0.0112	-2.5 to 2.5	Pass
				10	3.85	-5.107	-0.0072	-2.5 to 2.5	Pass
				30	3.85	-5.951	-0.0084	-2.5 to 2.5	Pass
				40	3.85	-9.027	-0.0127	-2.5 to 2.5	Pass
				50	3.85	-4.878	-0.0069	-2.5 to 2.5	Pass
16QAM	704	50	0	20	3.27	-5.822	-0.0083	-2.5 to 2.5	Pass
					3.85	-3.905	-0.0055	-2.5 to 2.5	Pass
					4.43	-5.322	-0.0076	-2.5 to 2.5	Pass
				-30	3.85	-9.098	-0.0129	-2.5 to 2.5	Pass
				-20	3.85	-7.310	-0.0104	-2.5 to 2.5	Pass
				-10	3.85	-7.739	-0.0110	-2.5 to 2.5	Pass
				0	3.85	-8.254	-0.0117	-2.5 to 2.5	Pass
				10	3.85	-5.250	-0.0075	-2.5 to 2.5	Pass
				30	3.85	-1.974	-0.0028	-2.5 to 2.5	Pass
				40	3.85	-7.896	-0.0112	-2.5 to 2.5	Pass
				50	3.85	-5.493	-0.0078	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-3.920	-0.0055	-2.5 to 2.5	Pass
					3.85	-6.523	-0.0092	-2.5 to 2.5	Pass
					4.43	-6.351	-0.0090	-2.5 to 2.5	Pass
				-30	3.85	-1.431	-0.0020	-2.5 to 2.5	Pass
				-20	3.85	-2.818	-0.0040	-2.5 to 2.5	Pass
				-10	3.85	-0.858	-0.0012	-2.5 to 2.5	Pass
				0	3.85	-5.622	-0.0079	-2.5 to 2.5	Pass
				10	3.85	-5.794	-0.0082	-2.5 to 2.5	Pass
				30	3.85	-3.905	-0.0055	-2.5 to 2.5	Pass
				40	3.85	-4.578	-0.0065	-2.5 to 2.5	Pass
				50	3.85	-5.193	-0.0073	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-3.333	-0.0047	-2.5 to 2.5	Pass
					3.85	-3.562	-0.0050	-2.5 to 2.5	Pass
					4.43	-4.792	-0.0067	-2.5 to 2.5	Pass
				-30	3.85	-4.034	-0.0057	-2.5 to 2.5	Pass
				-20	3.85	-5.479	-0.0077	-2.5 to 2.5	Pass
				-10	3.85	-3.548	-0.0050	-2.5 to 2.5	Pass
				0	3.85	-5.879	-0.0083	-2.5 to 2.5	Pass
				10	3.85	-4.063	-0.0057	-2.5 to 2.5	Pass
				30	3.85	-3.791	-0.0053	-2.5 to 2.5	Pass
				40	3.85	-3.948	-0.0056	-2.5 to 2.5	Pass
				50	3.85	-1.760	-0.0025	-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

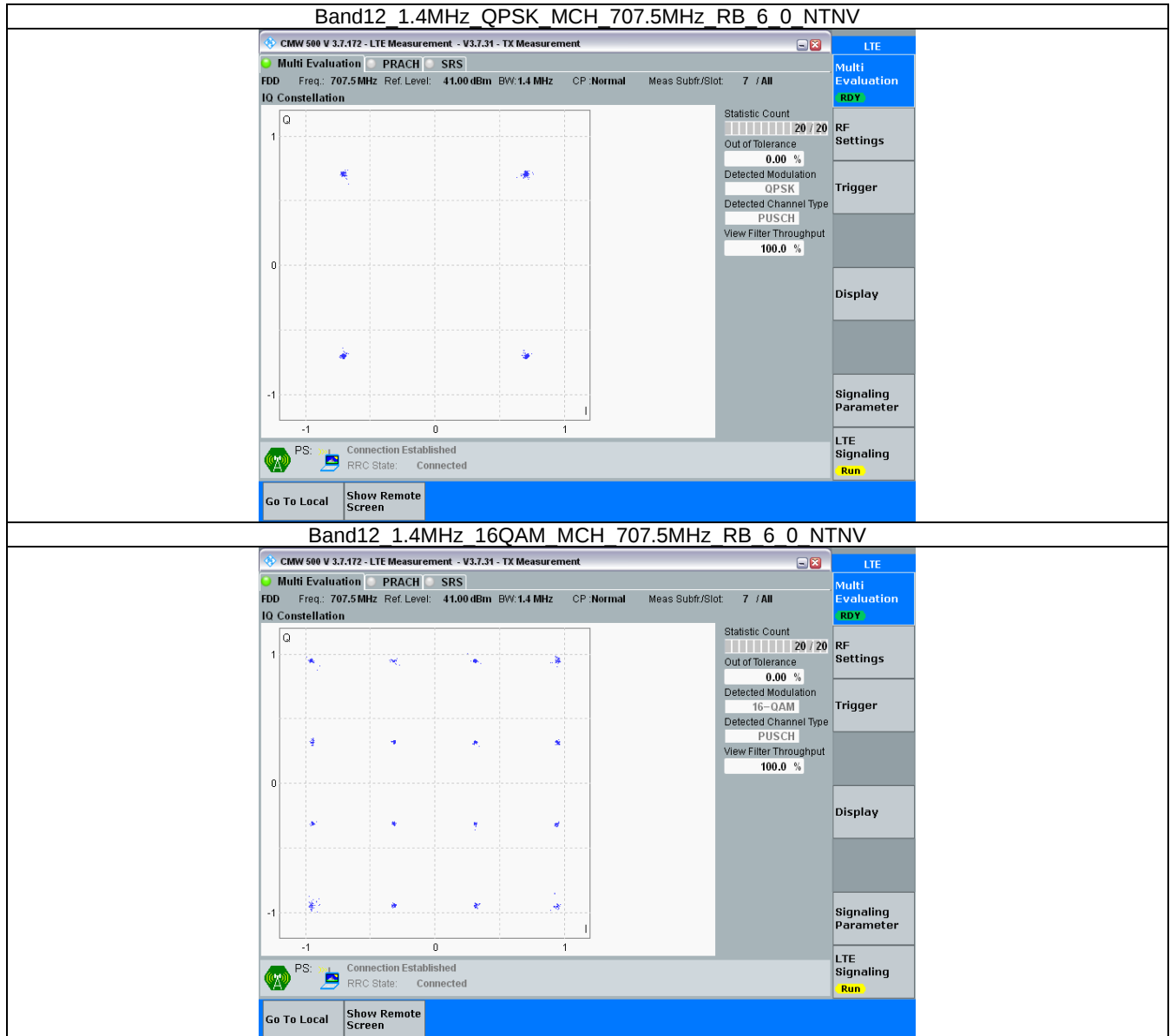
Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

3.1.4 B12_10MHz

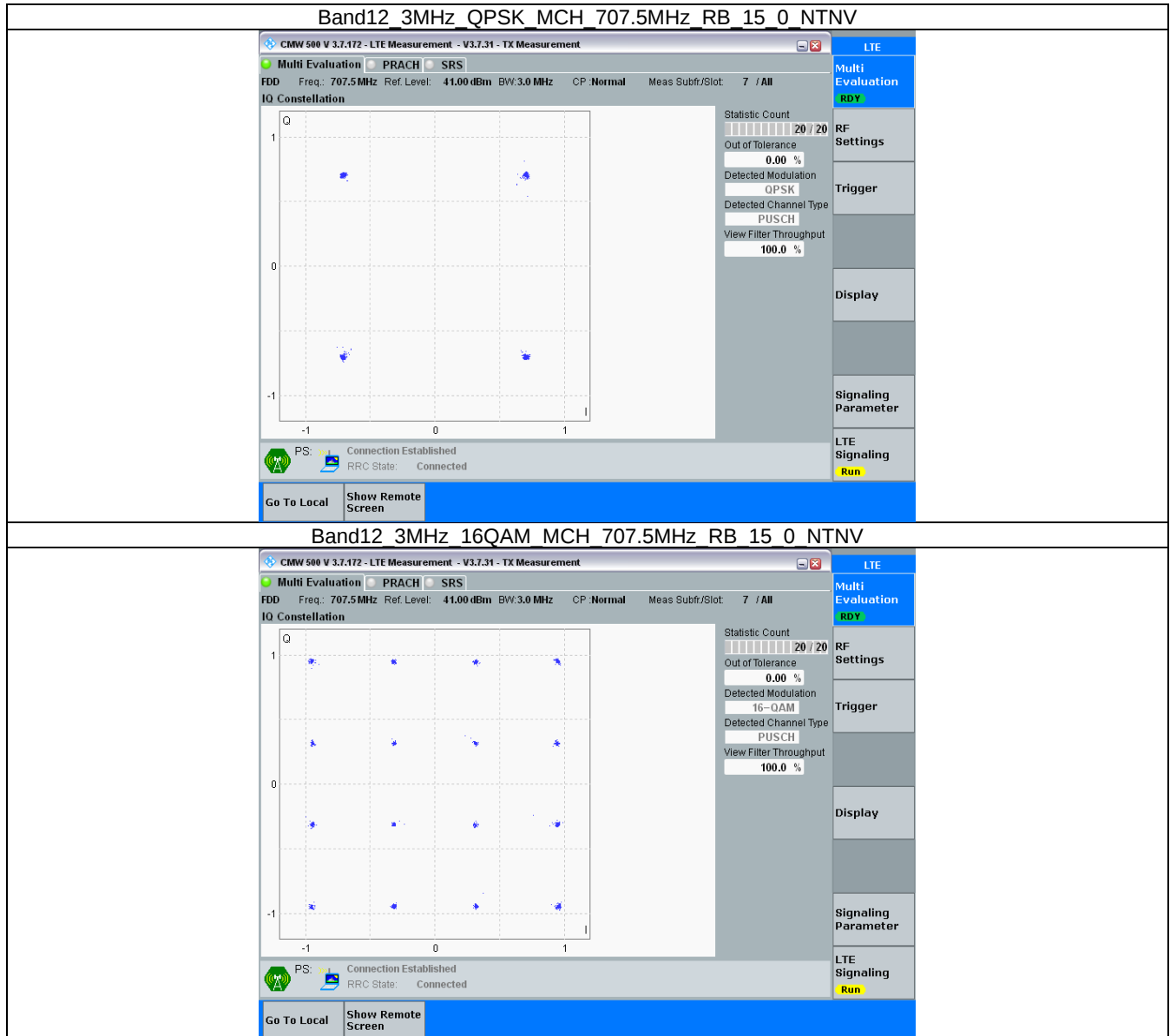
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

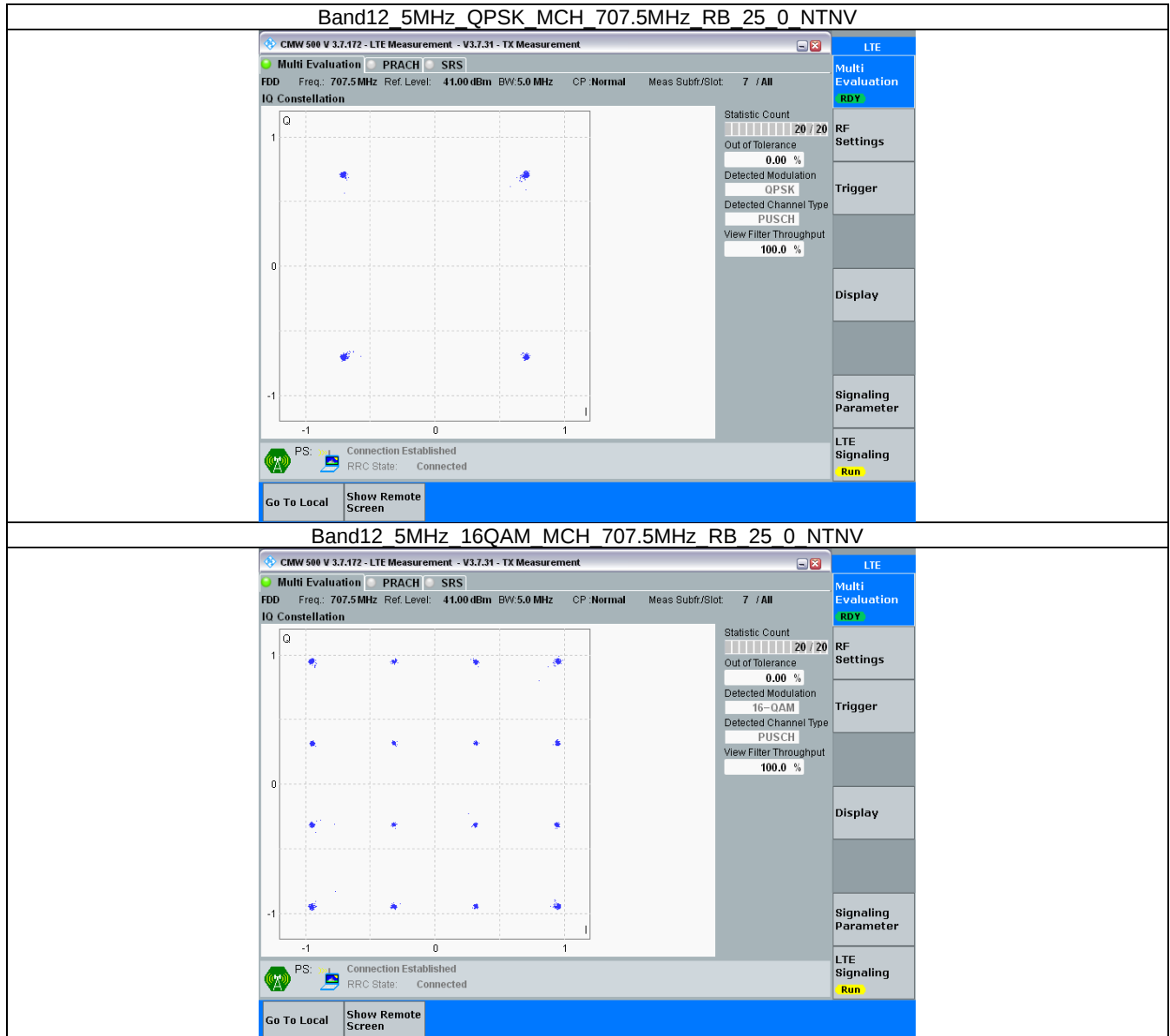
3.2.1 B12_1.4MHz



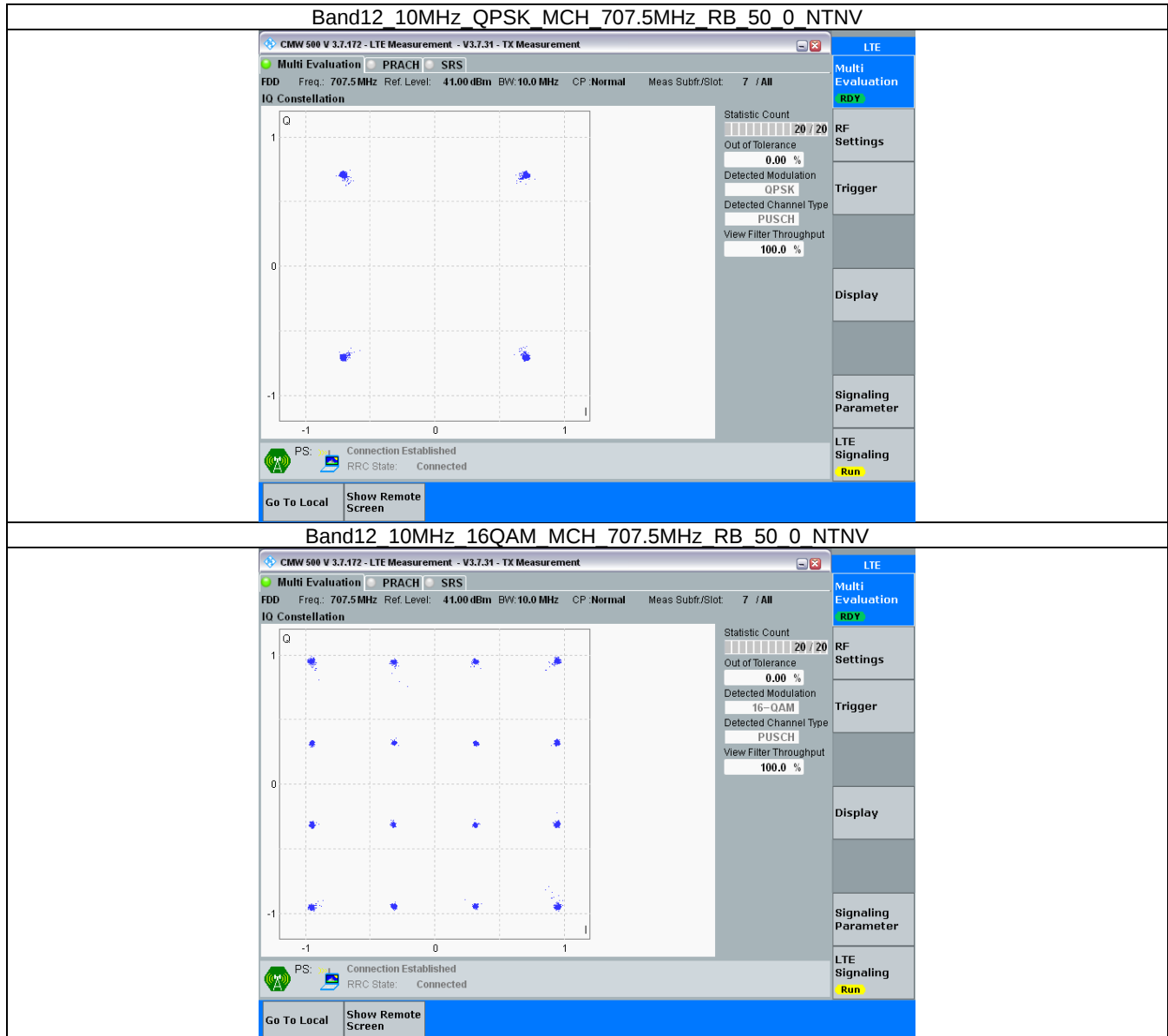
3.2.2 B12_3MHz



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	1.120	/	Pass
		707.5	6	0	1.108	/	Pass
		715.3	6	0	1.109	/	Pass
	16QAM	699.7	6	0	1.114	/	Pass
		707.5	6	0	1.104	/	Pass
		715.3	6	0	1.114	/	Pass
3	QPSK	700.5	15	0	2.722	/	Pass
		707.5	15	0	2.729	/	Pass
		714.5	15	0	2.726	/	Pass
	16QAM	700.5	15	0	2.713	/	Pass
		707.5	15	0	2.721	/	Pass
		714.5	15	0	2.724	/	Pass
5	QPSK	701.5	25	0	4.579	/	Pass
		707.5	25	0	4.559	/	Pass
		713.5	25	0	4.574	/	Pass
	16QAM	701.5	25	0	4.569	/	Pass
		707.5	25	0	4.586	/	Pass
		713.5	25	0	4.579	/	Pass
10	QPSK	704	50	0	9.119	/	Pass
		707.5	50	0	9.088	/	Pass
		711	50	0	9.053	/	Pass
	16QAM	704	50	0	9.123	/	Pass
		707.5	50	0	9.070	/	Pass
		711	50	0	9.034	/	Pass

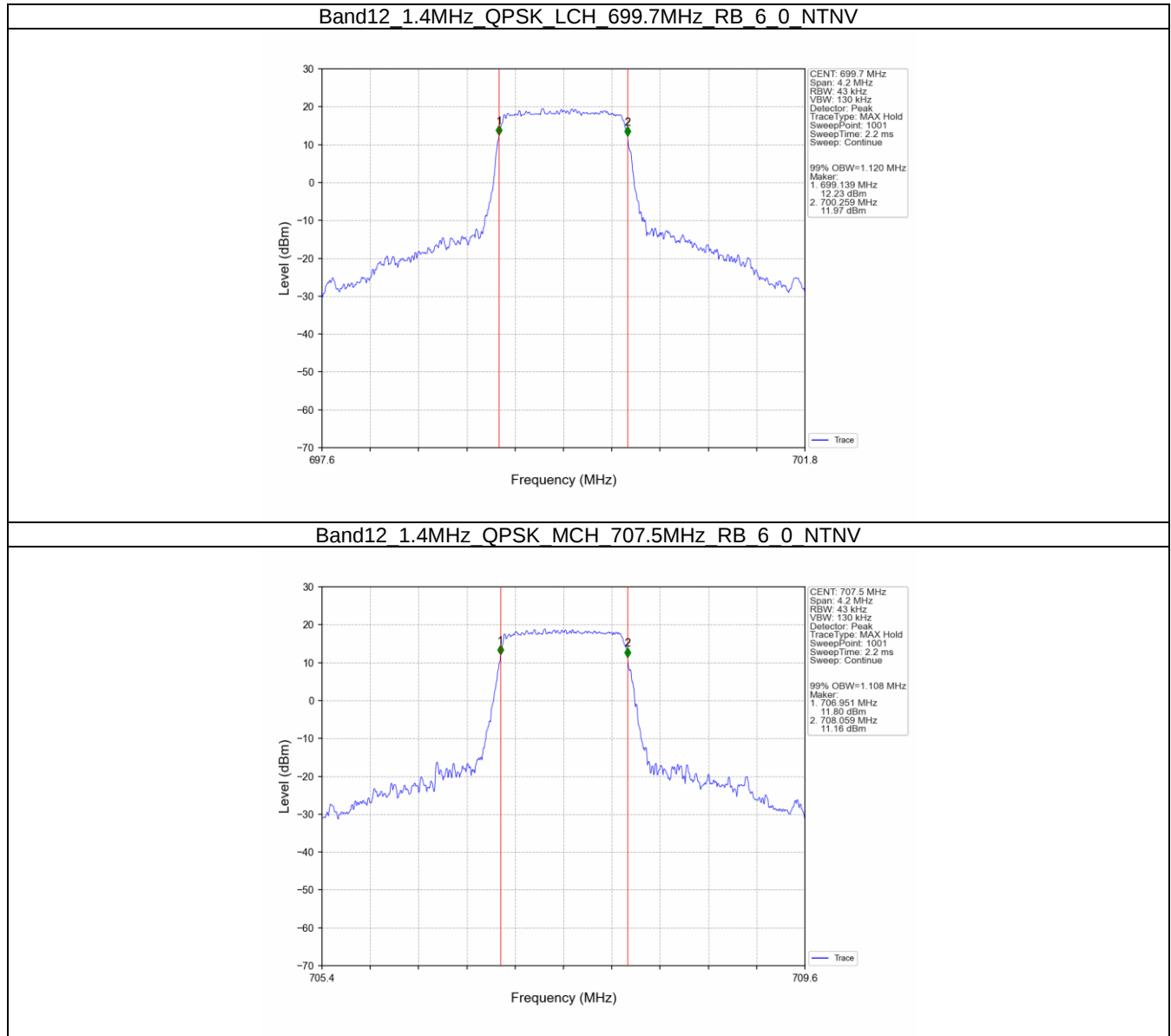
4.1.2 Band12_XDB

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	1.307	/	Pass
		707.5	6	0	1.317	/	Pass
		715.3	6	0	1.313	/	Pass
	16QAM	699.7	6	0	1.319	/	Pass
		707.5	6	0	1.309	/	Pass
		715.3	6	0	1.321	/	Pass
3	QPSK	700.5	15	0	3.012	/	Pass
		707.5	15	0	2.988	/	Pass
		714.5	15	0	2.991	/	Pass
	16QAM	700.5	15	0	2.992	/	Pass
		707.5	15	0	2.991	/	Pass
		714.5	15	0	3.004	/	Pass
5	QPSK	701.5	25	0	5.262	/	Pass
		707.5	25	0	5.301	/	Pass
		713.5	25	0	5.146	/	Pass

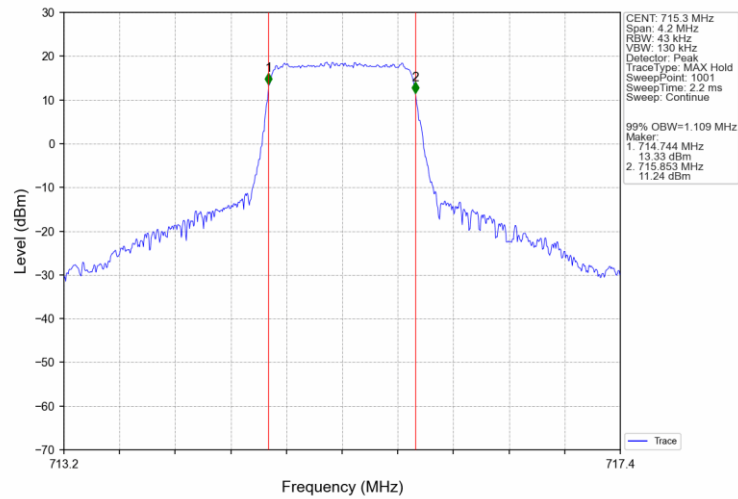
10	16QAM	701.5	25	0	5.243	/	Pass
		707.5	25	0	5.304	/	Pass
		713.5	25	0	5.206	/	Pass
	QPSK	704	50	0	10.344	/	Pass
		707.5	50	0	10.188	/	Pass
		711	50	0	10.186	/	Pass
	16QAM	704	50	0	10.162	/	Pass
		707.5	50	0	10.362	/	Pass
		711	50	0	10.214	/	Pass

4.2 Test Graph

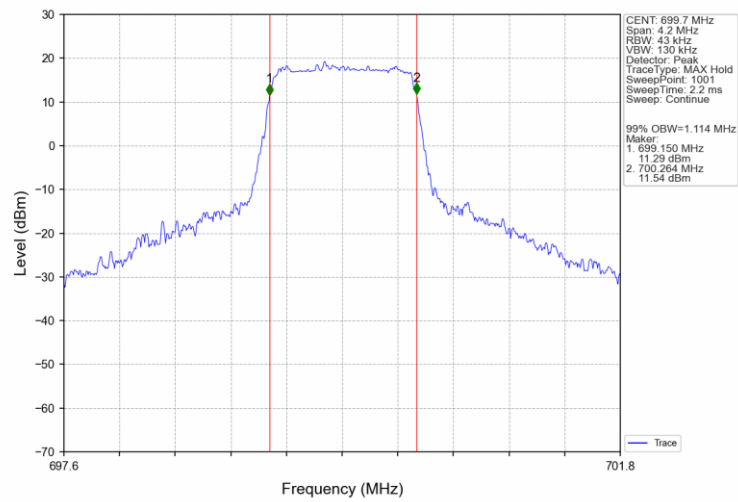
4.2.1 Band12_OBW



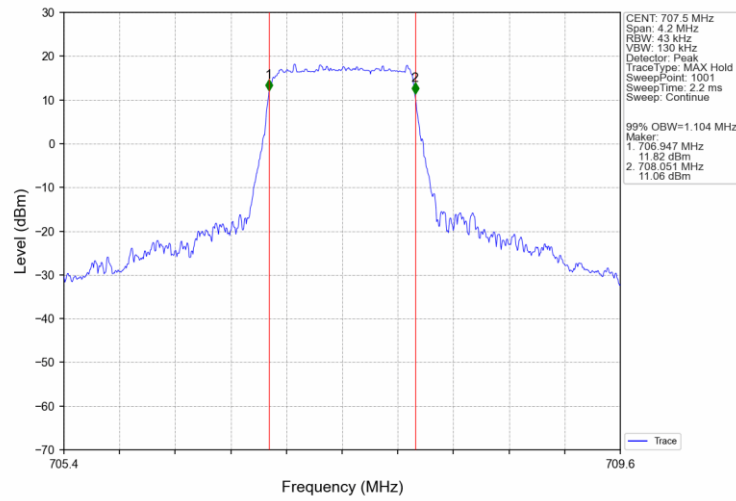
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTV



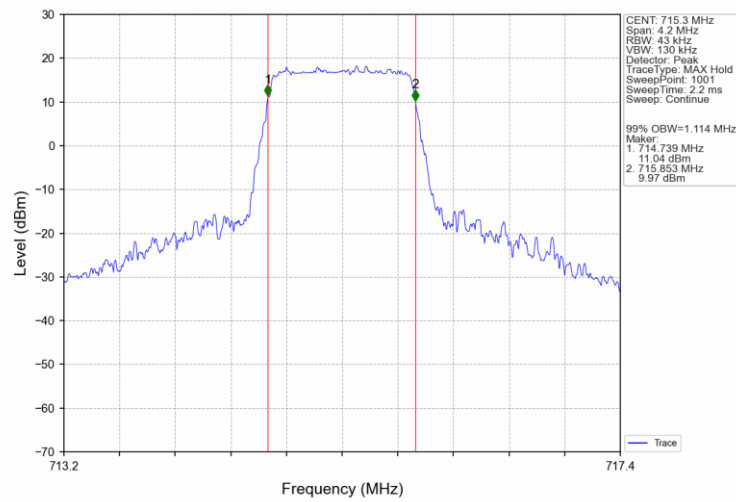
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTV



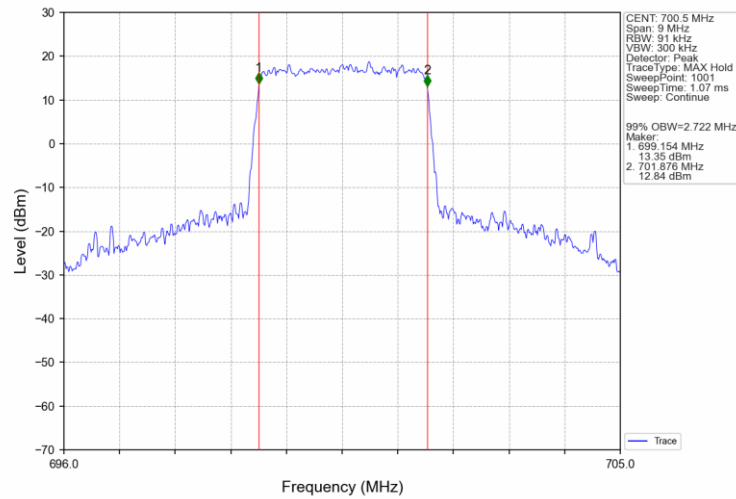
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



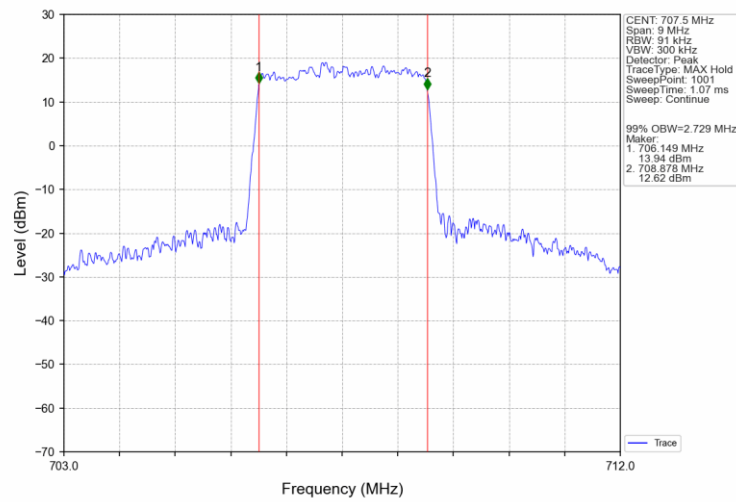
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



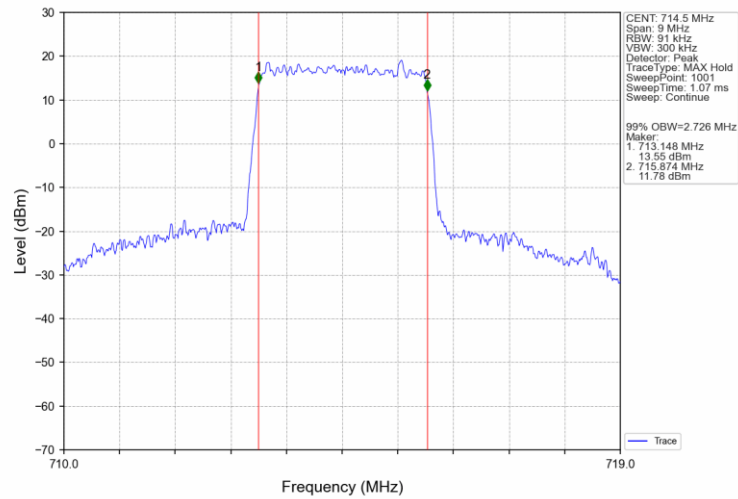
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



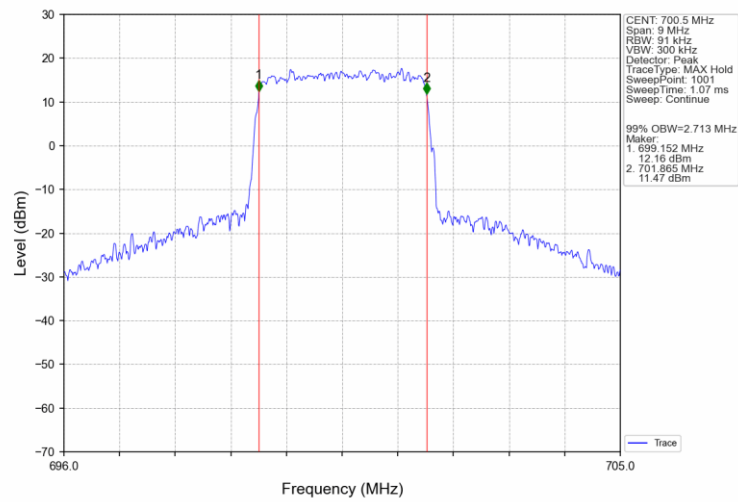
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



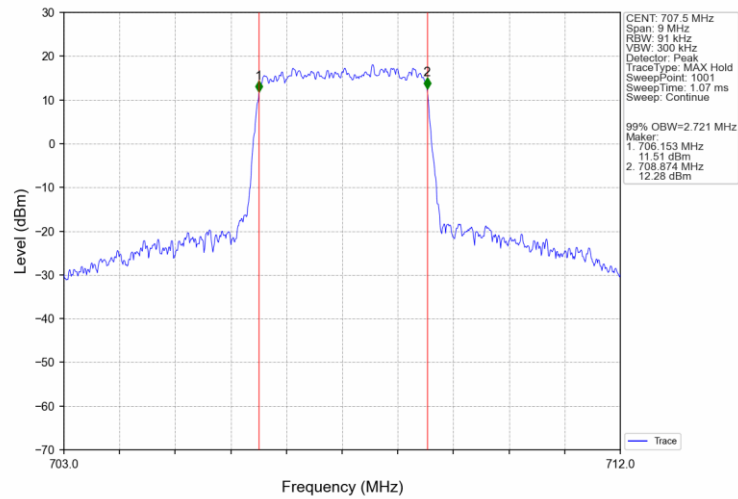
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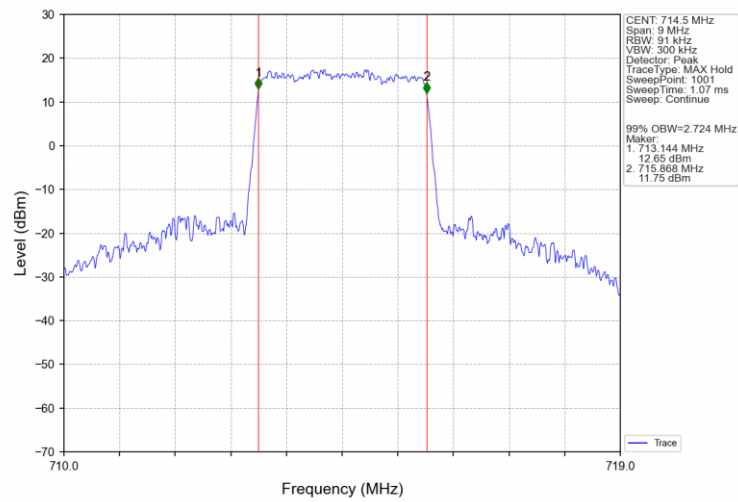
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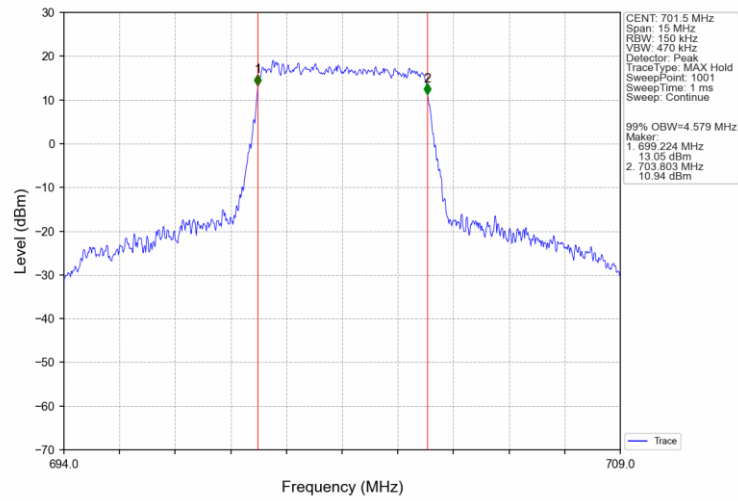
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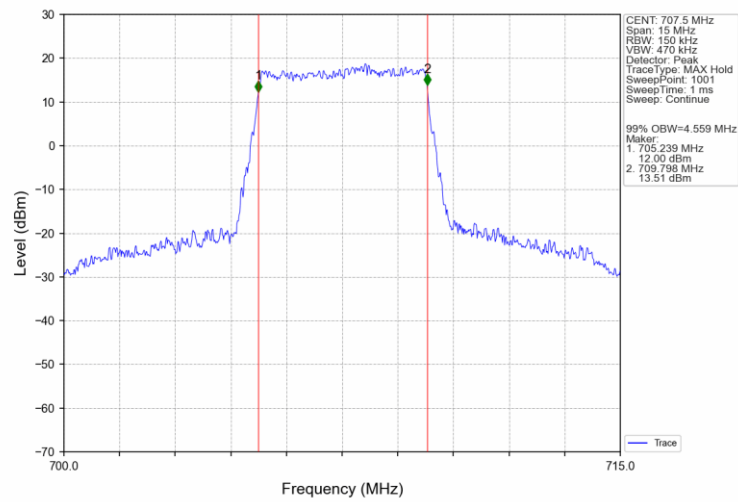
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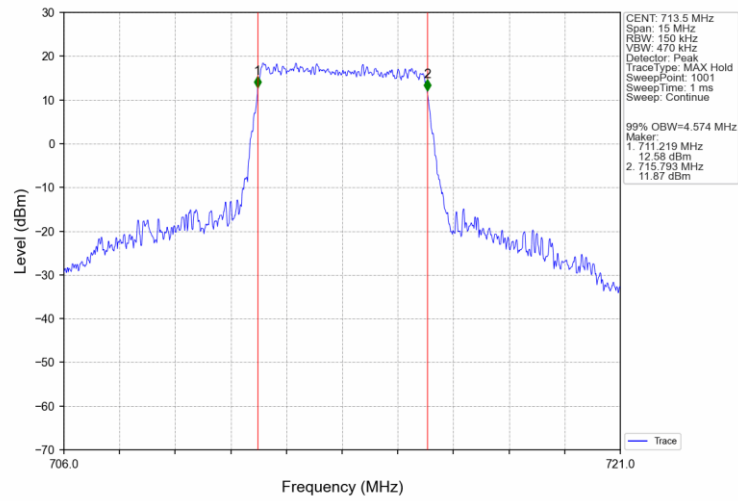
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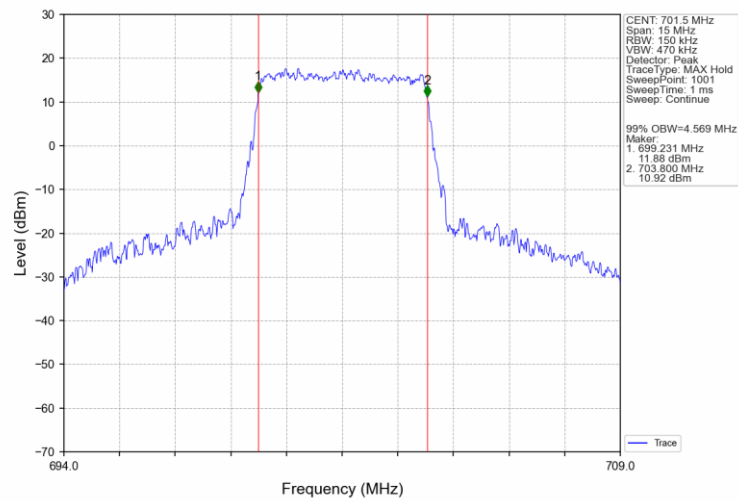
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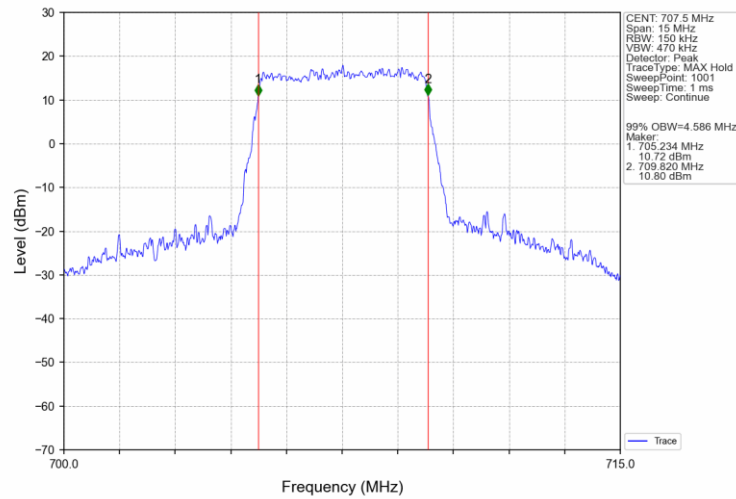
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



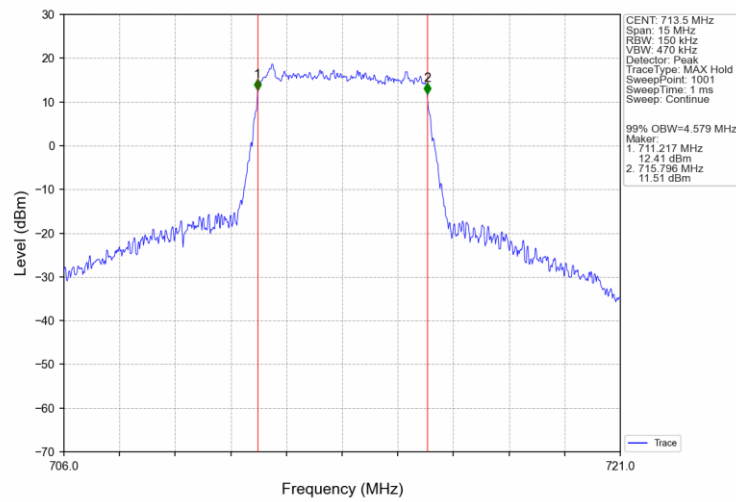
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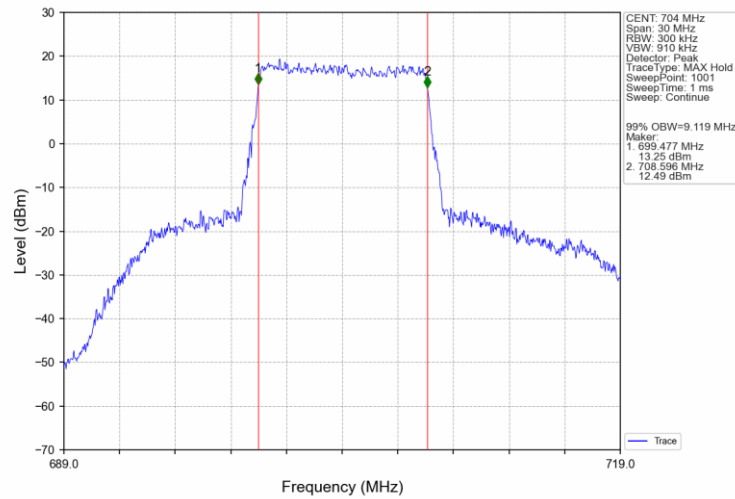
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



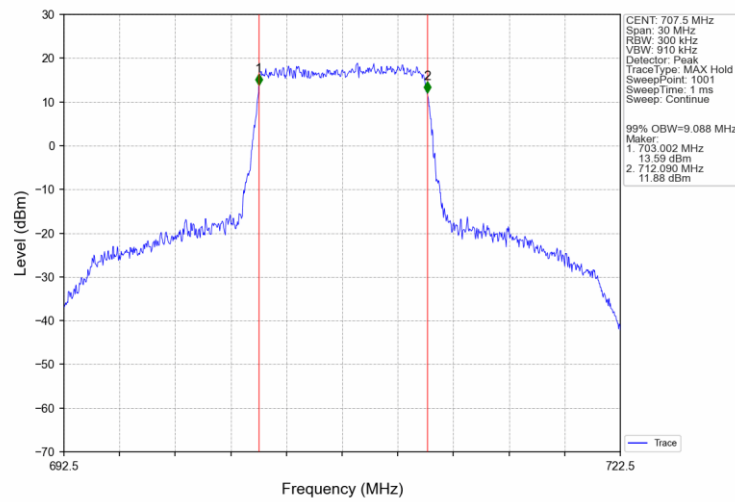
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



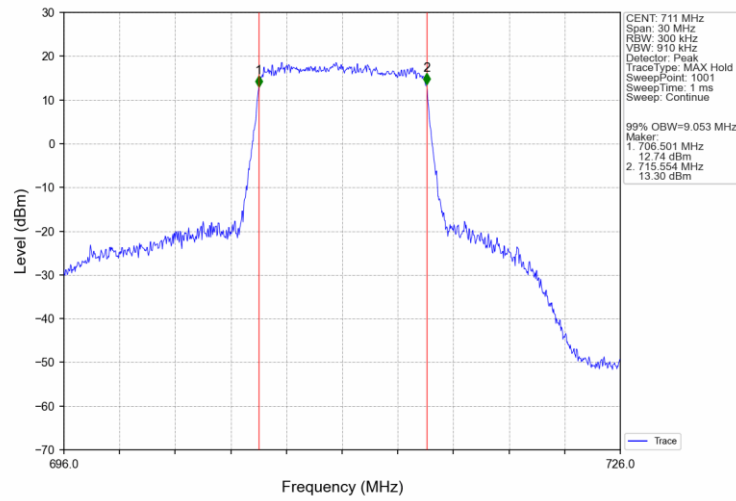
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



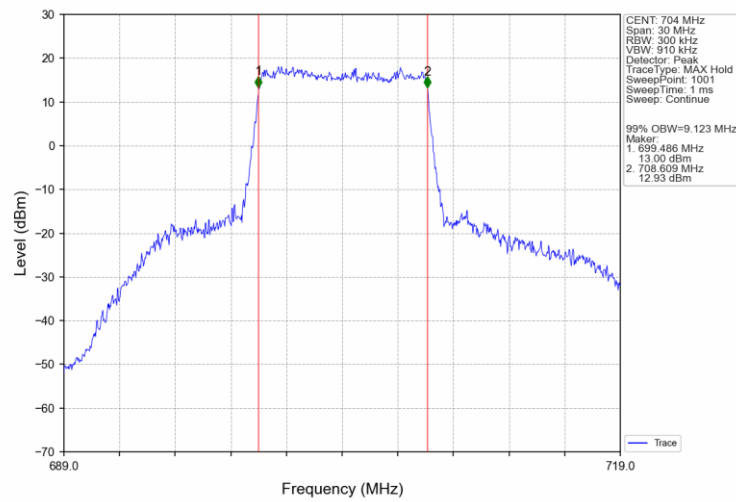
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



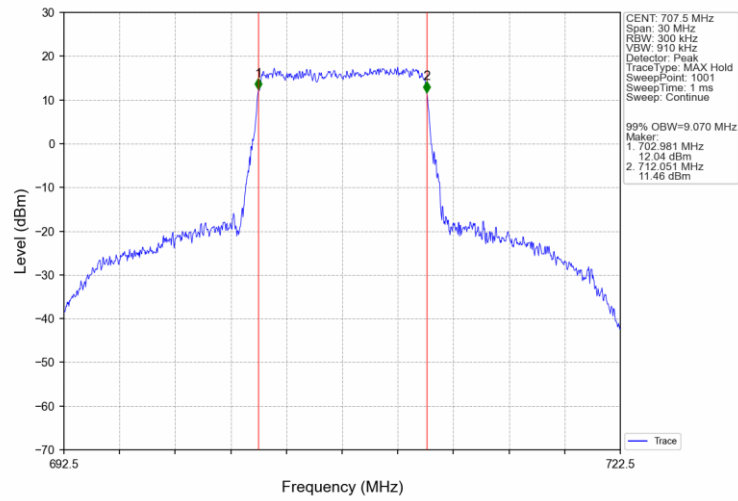
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



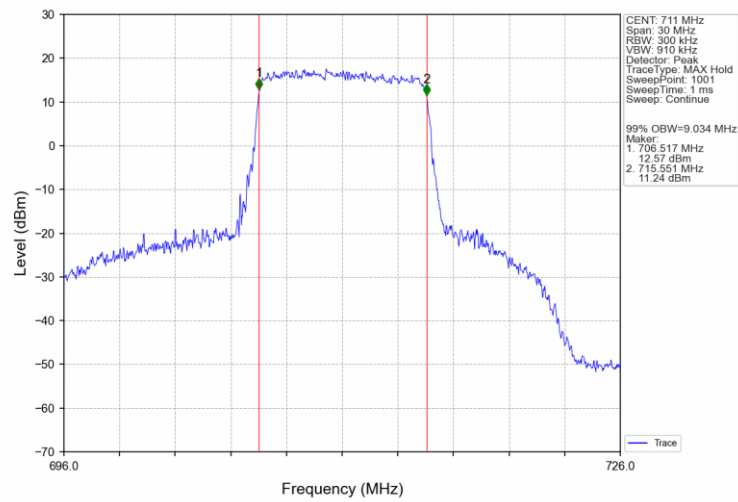
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Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV

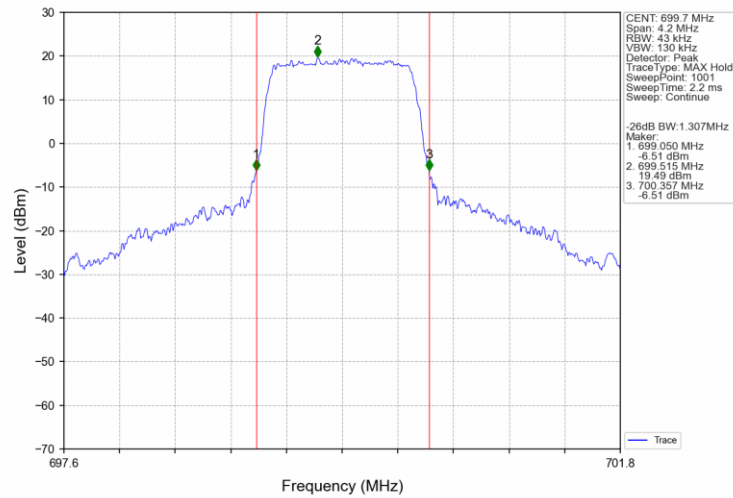


Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

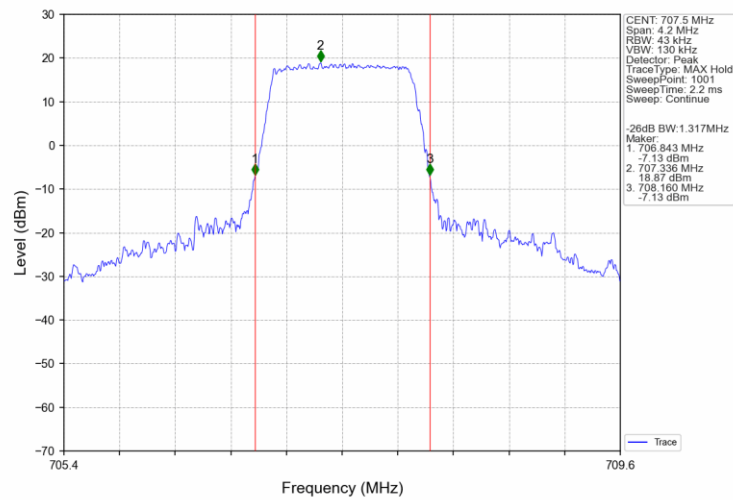


4.2.2 Band12_XDB

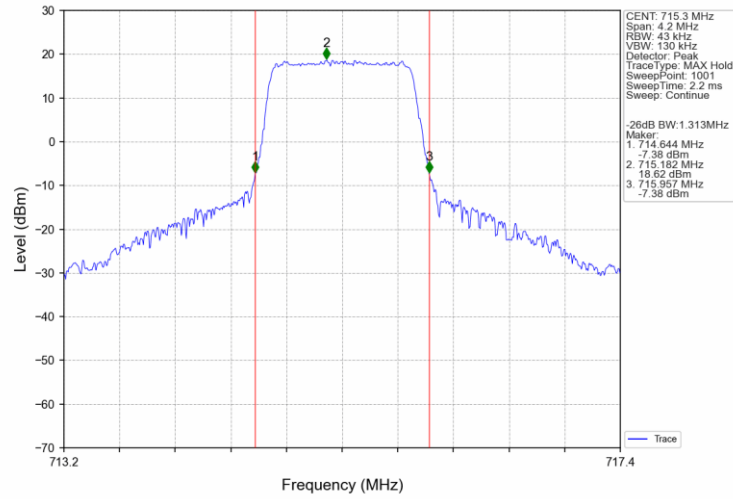
Band12 1.4MHz QPSK LCH 699.7MHz RB 6 0 NTNV



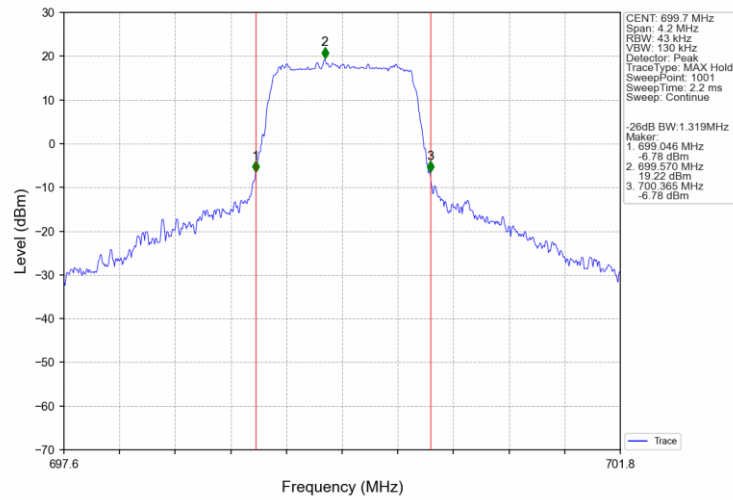
Band12 1.4MHz QPSK MCH 707.5MHz RB 6 0 NTNV



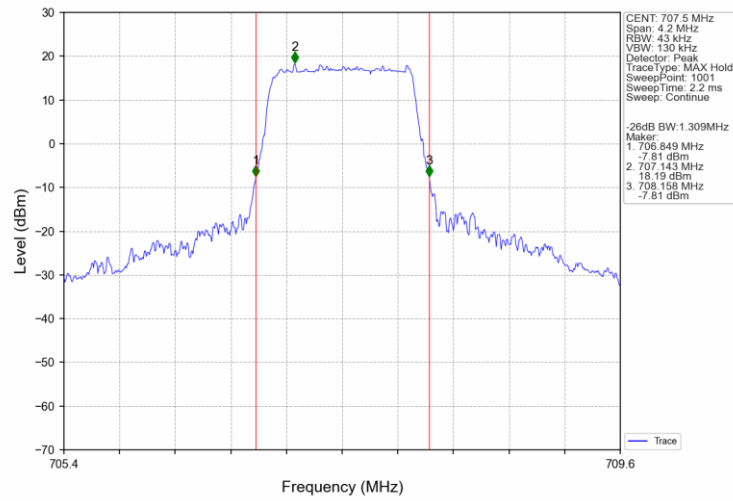
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



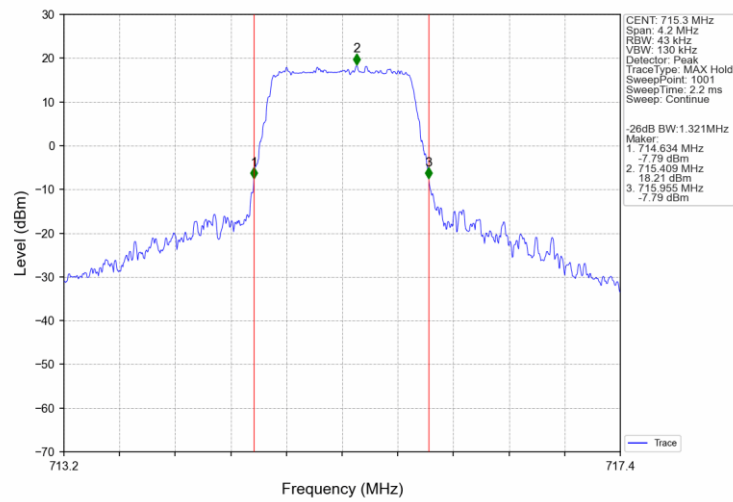
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



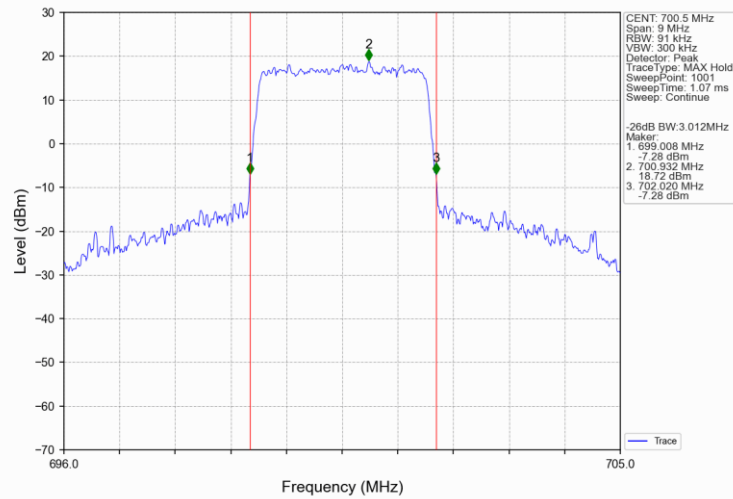
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



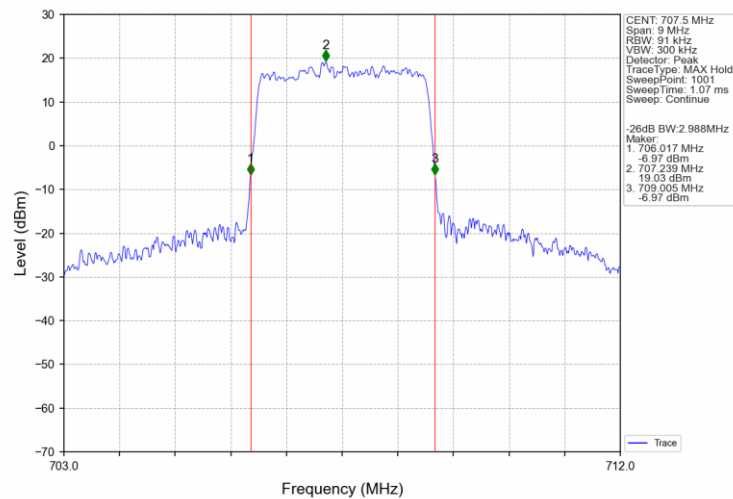
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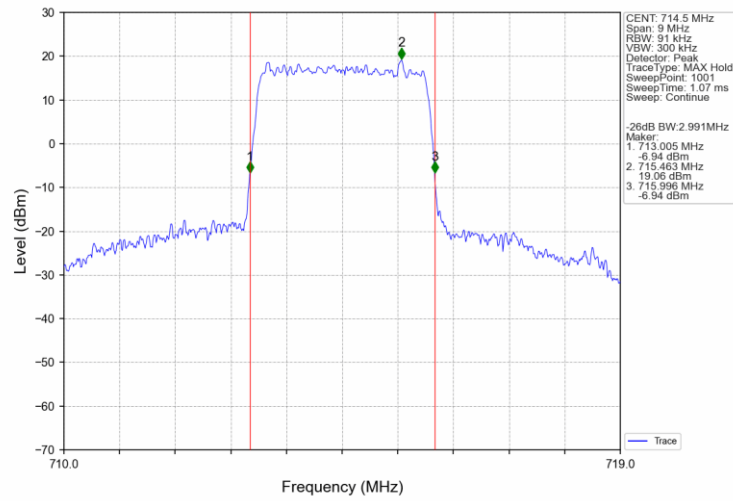
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



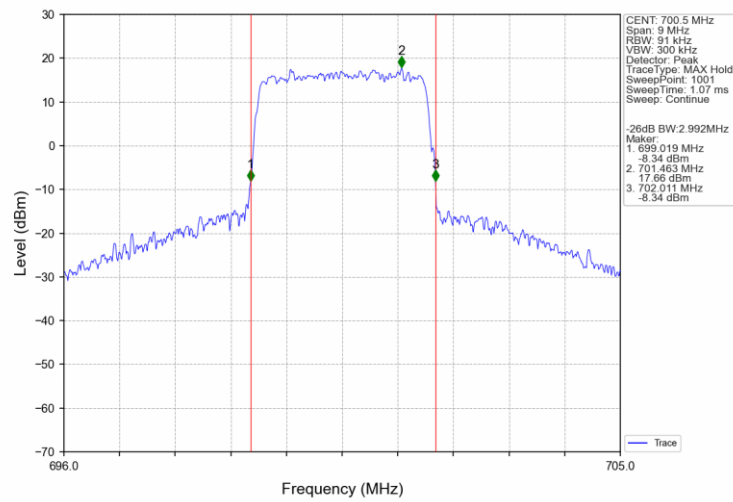
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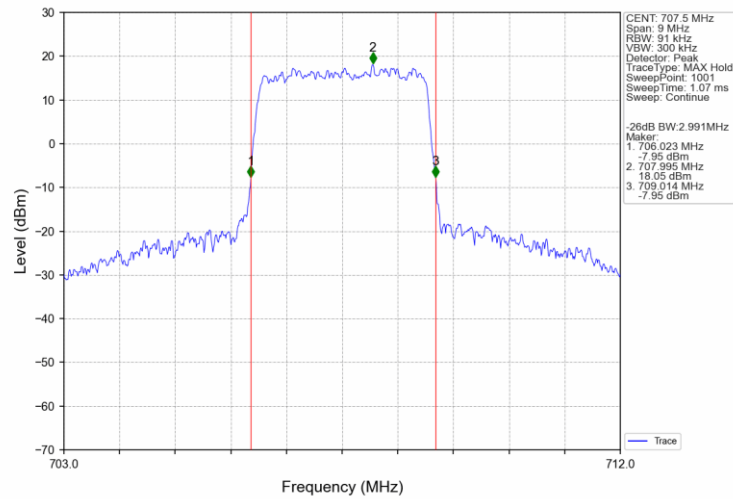
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



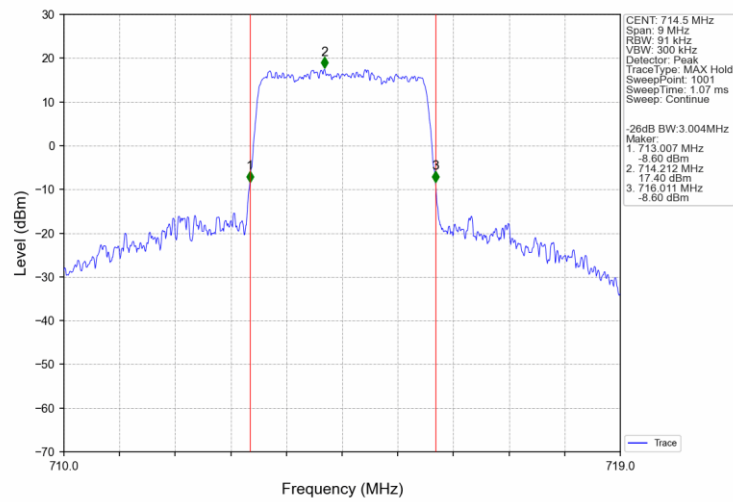
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



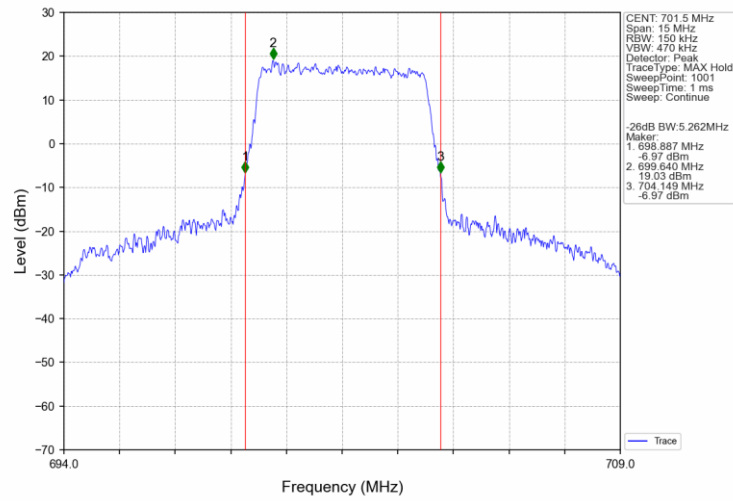
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



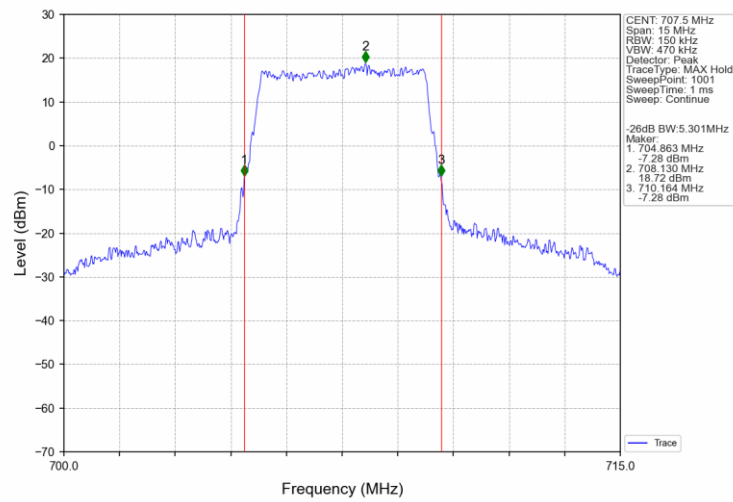
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



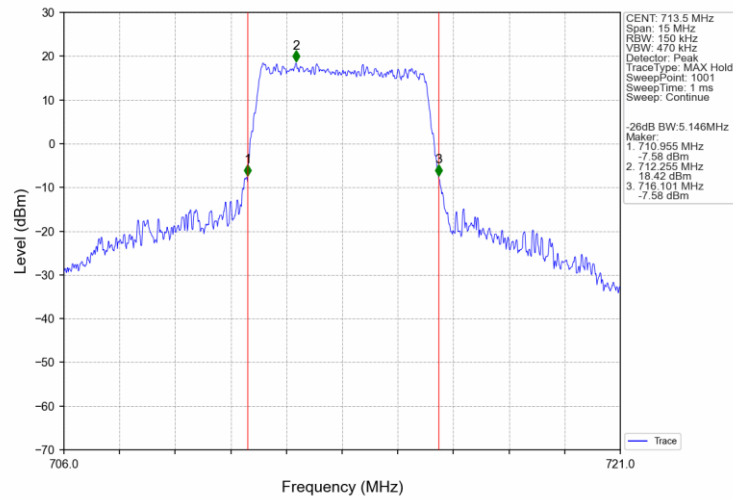
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



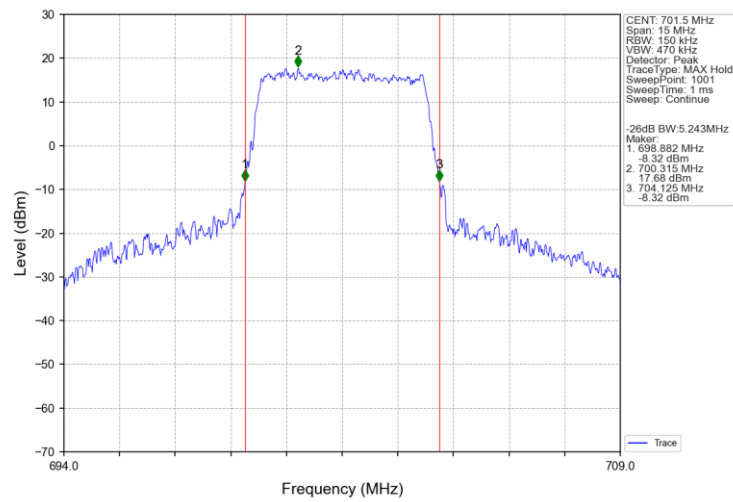
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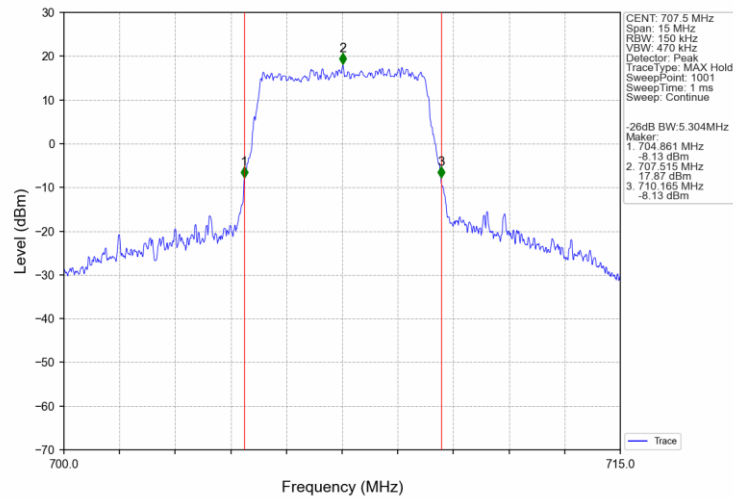
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



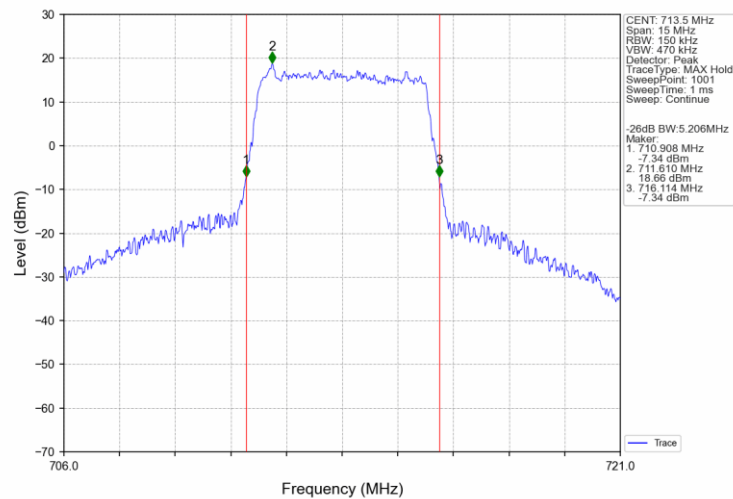
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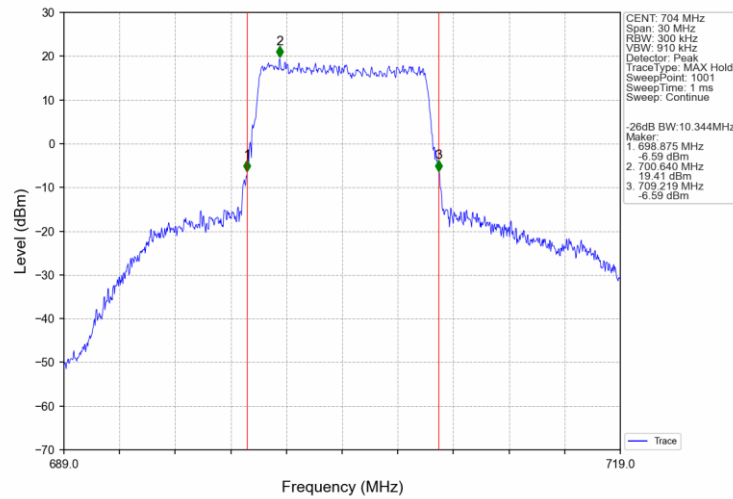
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



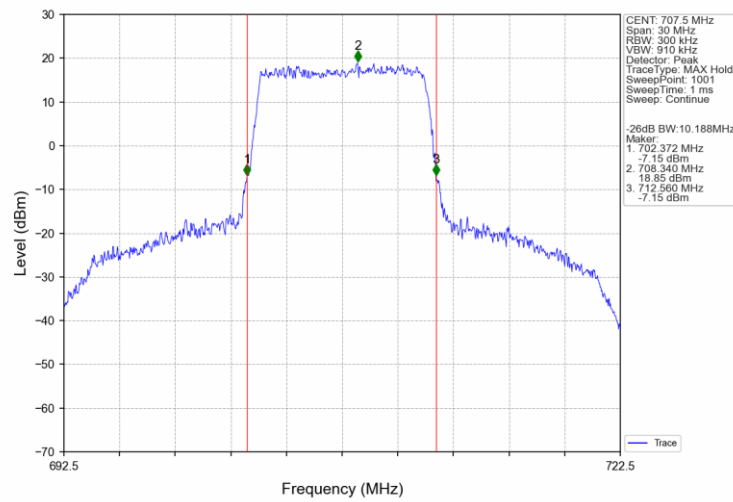
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



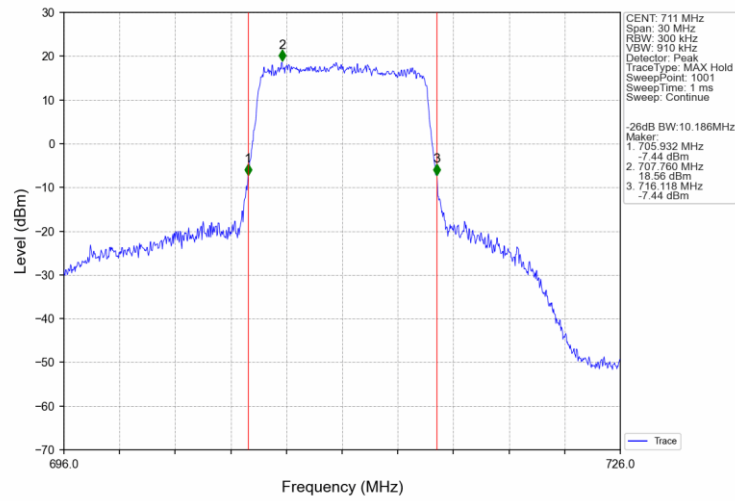
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



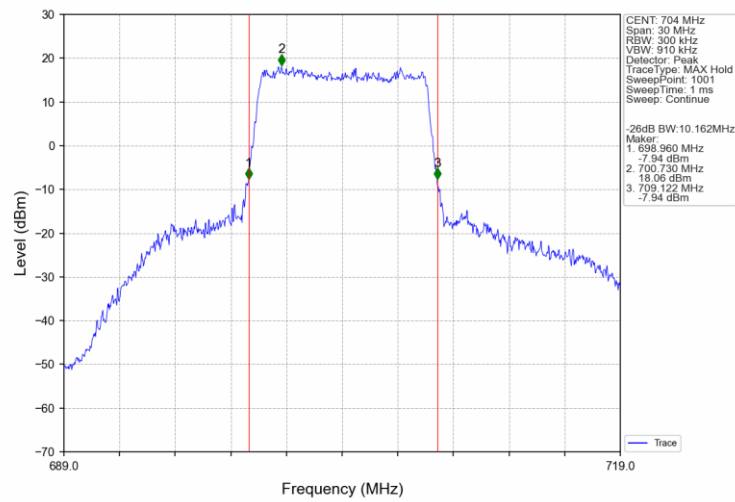
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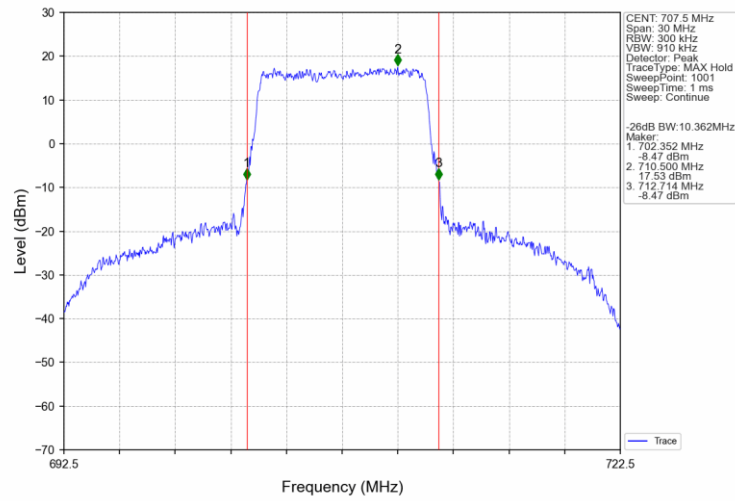
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



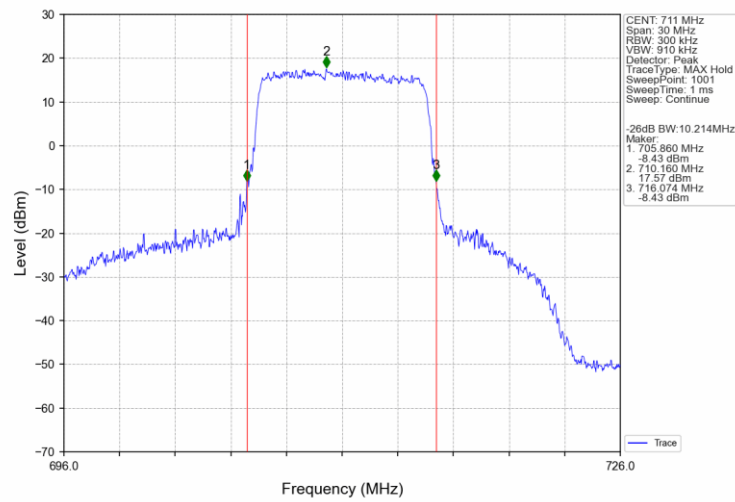
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



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	4.19	<=13	Pass
	707.5	6	0	4.83	<=13	Pass
	715.3	6	0	4.80	<=13	Pass
16QAM	699.7	6	0	5.04	<=13	Pass
	707.5	6	0	5.79	<=13	Pass
	715.3	6	0	5.62	<=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	4.77	<=13	Pass
	707.5	15	0	5.09	<=13	Pass
	714.5	15	0	5.09	<=13	Pass
16QAM	700.5	15	0	5.60	<=13	Pass
	707.5	15	0	5.91	<=13	Pass
	714.5	15	0	5.92	<=13	Pass

5.1.3 B12_5MHz

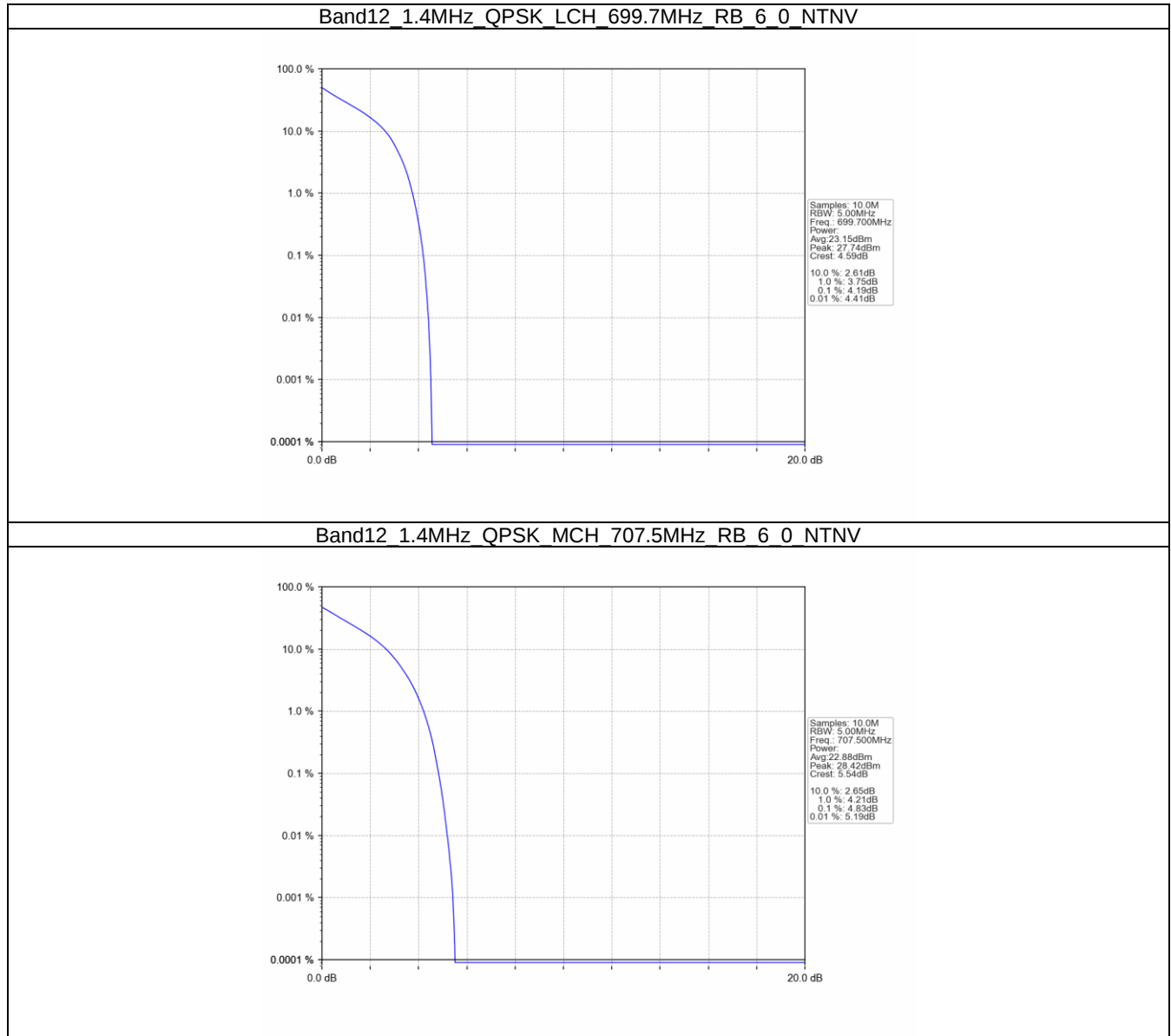
Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.25	<=13	Pass
	707.5	25	0	5.32	<=13	Pass
	713.5	25	0	5.33	<=13	Pass
16QAM	701.5	25	0	5.94	<=13	Pass
	707.5	25	0	6.07	<=13	Pass
	713.5	25	0	6.05	<=13	Pass

5.1.4 B12_10MHz

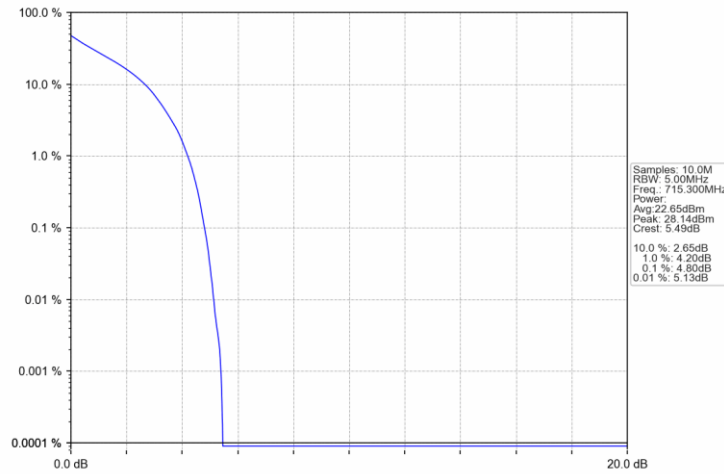
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.32	<=13	Pass
	707.5	50	0	5.31	<=13	Pass
	711	50	0	5.25	<=13	Pass
16QAM	704	50	0	6.05	<=13	Pass
	707.5	50	0	6.08	<=13	Pass
	711	50	0	6.05	<=13	Pass

5.2 Test Graph

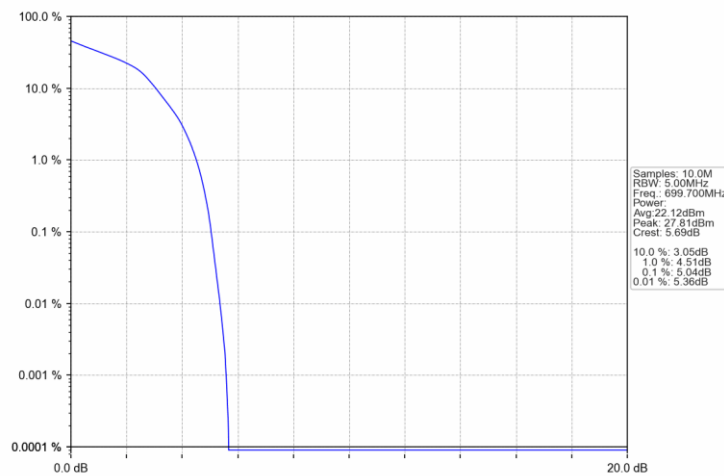
5.2.1 B12_1.4MHz



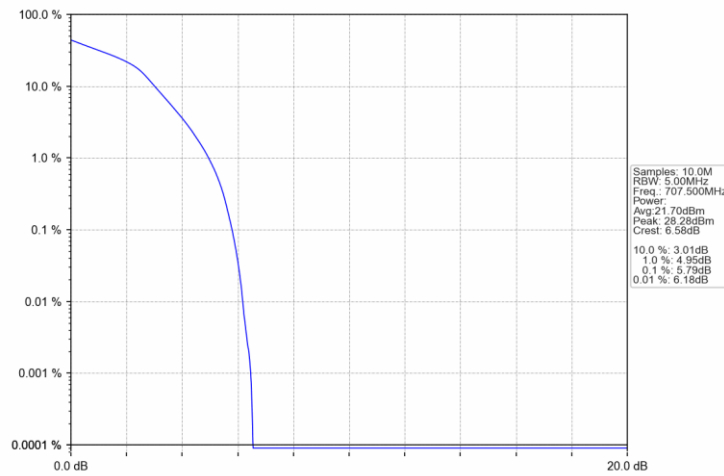
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



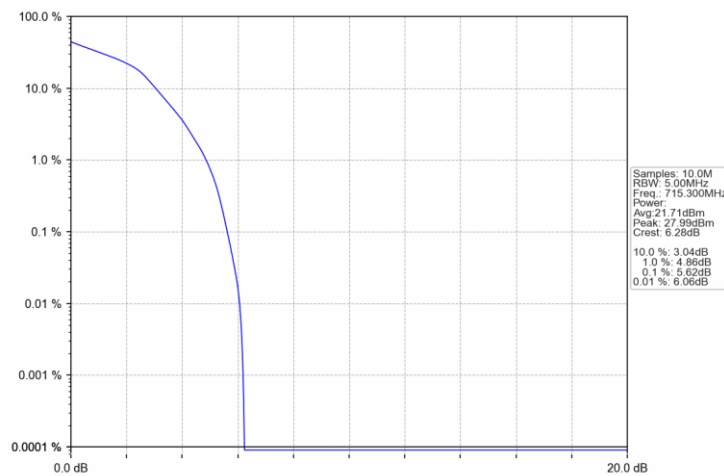
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



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

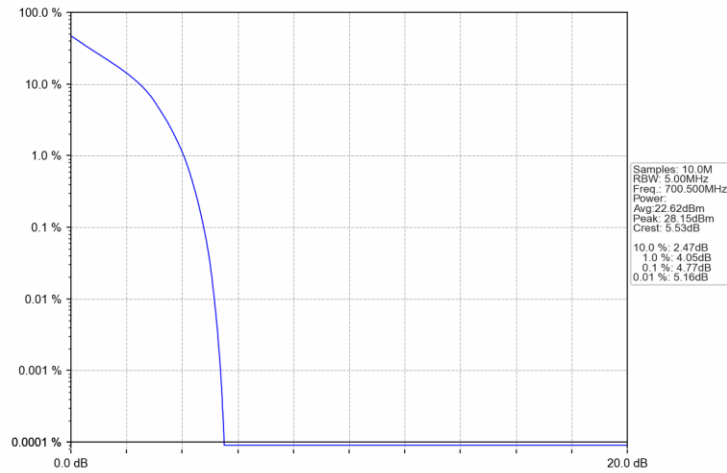


Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV

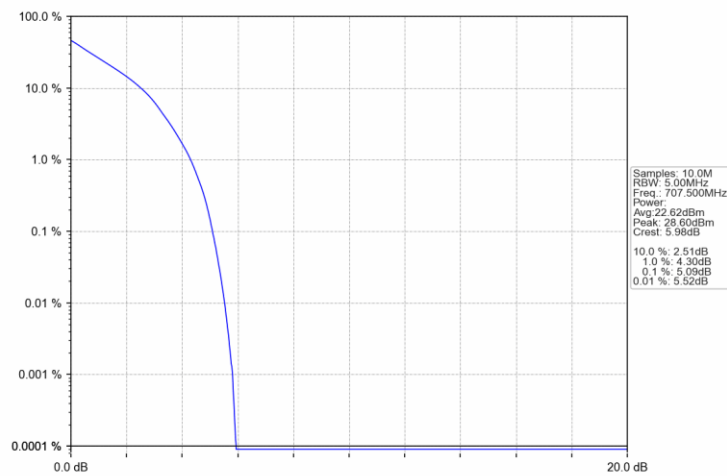


5.2.2 B12_3MHz

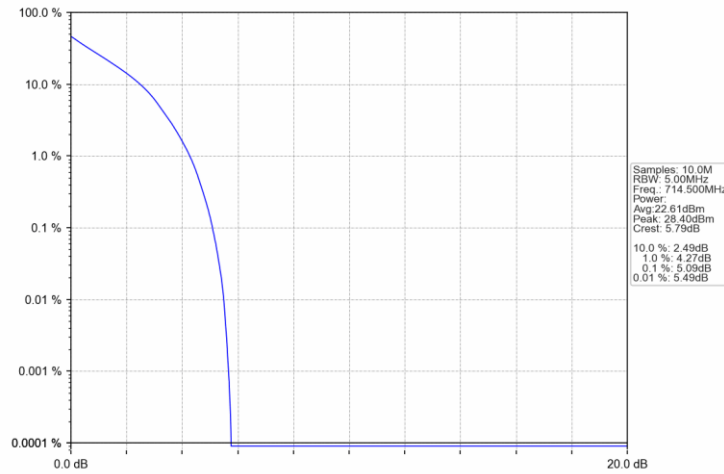
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



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

