

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	24.20	-0.63	21.42	<=34.77	Pass
			2	24.29	-0.63	21.51	<=34.77	Pass
			5	24.21	-0.63	21.43	<=34.77	Pass
		3	0	24.24	-0.63	21.46	<=34.77	Pass
			2	24.18	-0.63	21.40	<=34.77	Pass
			3	23.89	-0.63	21.11	<=34.77	Pass
		6	0	22.76	-0.63	19.98	<=34.77	Pass
	707.5	1	0	23.67	-0.63	20.89	<=34.77	Pass
			2	23.80	-0.63	21.02	<=34.77	Pass
			5	23.69	-0.63	20.91	<=34.77	Pass
		3	0	23.78	-0.63	21.00	<=34.77	Pass
			2	23.81	-0.63	21.03	<=34.77	Pass
			3	23.80	-0.63	21.02	<=34.77	Pass
		6	0	22.76	-0.63	19.98	<=34.77	Pass
	715.3	1	0	24.33	-0.63	21.55	<=34.77	Pass
			2	24.41	-0.63	21.63	<=34.77	Pass
			5	24.33	-0.63	21.55	<=34.77	Pass
		3	0	24.36	-0.63	21.58	<=34.77	Pass
			2	24.38	-0.63	21.60	<=34.77	Pass
			3	24.35	-0.63	21.57	<=34.77	Pass
		6	0	23.30	-0.63	20.52	<=34.77	Pass
16QAM	699.7	1	0	22.64	-0.63	19.86	<=34.77	Pass
			2	22.73	-0.63	19.95	<=34.77	Pass
			5	22.63	-0.63	19.85	<=34.77	Pass
		3	0	22.92	-0.63	20.14	<=34.77	Pass
			2	22.94	-0.63	20.16	<=34.77	Pass
			3	22.96	-0.63	20.18	<=34.77	Pass
		6	0	21.74	-0.63	18.96	<=34.77	Pass
	707.5	1	0	22.70	-0.63	19.92	<=34.77	Pass
			2	22.82	-0.63	20.04	<=34.77	Pass
			5	22.76	-0.63	19.98	<=34.77	Pass
		3	0	22.86	-0.63	20.08	<=34.77	Pass
			2	22.86	-0.63	20.08	<=34.77	Pass
			3	22.82	-0.63	20.04	<=34.77	Pass
		6	0	21.73	-0.63	18.95	<=34.77	Pass
	715.3	1	0	22.98	-0.63	20.20	<=34.77	Pass
			2	22.87	-0.63	20.09	<=34.77	Pass
			5	22.79	-0.63	20.01	<=34.77	Pass
		3	0	22.88	-0.63	20.10	<=34.77	Pass
			2	22.88	-0.63	20.10	<=34.77	Pass
			3	22.87	-0.63	20.09	<=34.77	Pass
		6	0	21.78	-0.63	19.00	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B12_3MHz_ERP

Band: 12 / Bandwidth: 3MHz / NTNV

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	24.28	-0.63	21.50	<=34.77	Pass
			7	24.40	-0.63	21.62	<=34.77	Pass
			14	24.31	-0.63	21.53	<=34.77	Pass
		8	0	23.24	-0.63	20.46	<=34.77	Pass
			4	23.30	-0.63	20.52	<=34.77	Pass
			7	23.04	-0.63	20.26	<=34.77	Pass
		15	0	22.96	-0.63	20.18	<=34.77	Pass
	707.5	1	0	23.72	-0.63	20.94	<=34.77	Pass
			7	23.85	-0.63	21.07	<=34.77	Pass
			14	23.73	-0.63	20.95	<=34.77	Pass
		8	0	22.76	-0.63	19.98	<=34.77	Pass
			4	22.81	-0.63	20.03	<=34.77	Pass
			7	22.79	-0.63	20.01	<=34.77	Pass
		15	0	22.75	-0.63	19.97	<=34.77	Pass
	714.5	1	0	23.81	-0.63	21.03	<=34.77	Pass
			7	23.97	-0.63	21.19	<=34.77	Pass
			14	23.87	-0.63	21.09	<=34.77	Pass
		8	0	22.82	-0.63	20.04	<=34.77	Pass
			4	22.84	-0.63	20.06	<=34.77	Pass
			7	22.80	-0.63	20.02	<=34.77	Pass
		15	0	22.77	-0.63	19.99	<=34.77	Pass
16QAM	700.5	1	0	22.90	-0.63	20.12	<=34.77	Pass
			7	23.05	-0.63	20.27	<=34.77	Pass
			14	22.95	-0.63	20.17	<=34.77	Pass
		8	0	21.73	-0.63	18.95	<=34.77	Pass
			4	21.78	-0.63	19.00	<=34.77	Pass
			7	21.74	-0.63	18.96	<=34.77	Pass
		15	0	21.75	-0.63	18.97	<=34.77	Pass
	707.5	1	0	23.31	-0.63	20.53	<=34.77	Pass
			7	23.40	-0.63	20.62	<=34.77	Pass
			14	23.24	-0.63	20.46	<=34.77	Pass
		8	0	21.91	-0.63	19.13	<=34.77	Pass
			4	21.97	-0.63	19.19	<=34.77	Pass
			7	21.94	-0.63	19.16	<=34.77	Pass
		15	0	21.84	-0.63	19.06	<=34.77	Pass
	714.5	1	0	22.86	-0.63	20.08	<=34.77	Pass
			7	22.96	-0.63	20.18	<=34.77	Pass
			14	22.77	-0.63	19.99	<=34.77	Pass
		8	0	21.91	-0.63	19.13	<=34.77	Pass
			4	21.95	-0.63	19.17	<=34.77	Pass
			7	21.89	-0.63	19.11	<=34.77	Pass
		15	0	21.87	-0.63	19.09	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.3 B12_5MHz_ERP

Band: 12 / Bandwidth: 5MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	23.58	-0.63	20.80	<=34.77	Pass
			13	23.76	-0.63	20.98	<=34.77	Pass
			24	23.70	-0.63	20.92	<=34.77	Pass
		12	0	22.75	-0.63	19.97	<=34.77	Pass
			6	22.80	-0.63	20.02	<=34.77	Pass
			13	22.71	-0.63	19.93	<=34.77	Pass
		25	0	22.73	-0.63	19.95	<=34.77	Pass

	707.5	1	0	23.63	-0.63	20.85	<=34.77	Pass
			13	23.73	-0.63	20.95	<=34.77	Pass
			24	23.68	-0.63	20.90	<=34.77	Pass
		12	0	22.74	-0.63	19.96	<=34.77	Pass
			6	22.81	-0.63	20.03	<=34.77	Pass
			13	22.82	-0.63	20.04	<=34.77	Pass
		25	0	22.79	-0.63	20.01	<=34.77	Pass
	713.5	1	0	23.69	-0.63	20.91	<=34.77	Pass
			13	23.82	-0.63	21.04	<=34.77	Pass
			24	23.75	-0.63	20.97	<=34.77	Pass
		12	0	22.88	-0.63	20.10	<=34.77	Pass
			6	22.85	-0.63	20.07	<=34.77	Pass
			13	22.72	-0.63	19.94	<=34.77	Pass
		25	0	22.77	-0.63	19.99	<=34.77	Pass
16QAM	701.5	1	0	22.85	-0.63	20.07	<=34.77	Pass
			13	23.03	-0.63	20.25	<=34.77	Pass
			24	23.01	-0.63	20.23	<=34.77	Pass
		12	0	21.77	-0.63	18.99	<=34.77	Pass
			6	21.82	-0.63	19.04	<=34.77	Pass
			13	21.76	-0.63	18.98	<=34.77	Pass
		25	0	21.75	-0.63	18.97	<=34.77	Pass
	707.5	1	0	22.57	-0.63	19.79	<=34.77	Pass
			13	22.64	-0.63	19.86	<=34.77	Pass
			24	22.56	-0.63	19.78	<=34.77	Pass
		12	0	21.73	-0.63	18.95	<=34.77	Pass
			6	21.77	-0.63	18.99	<=34.77	Pass
			13	21.85	-0.63	19.07	<=34.77	Pass
		25	0	21.84	-0.63	19.06	<=34.77	Pass
	713.5	1	0	22.81	-0.63	20.03	<=34.77	Pass
			13	22.88	-0.63	20.10	<=34.77	Pass
			24	22.79	-0.63	20.01	<=34.77	Pass
		12	0	21.83	-0.63	19.05	<=34.77	Pass
			6	21.85	-0.63	19.07	<=34.77	Pass
			13	21.75	-0.63	18.97	<=34.77	Pass
		25	0	21.88	-0.63	19.10	<=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	23.65	-0.63	20.87	<=34.77	Pass
			25	23.80	-0.63	21.02	<=34.77	Pass
			49	23.75	-0.63	20.97	<=34.77	Pass
		25	0	22.88	-0.63	20.10	<=34.77	Pass
			13	22.86	-0.63	20.08	<=34.77	Pass
			25	22.90	-0.63	20.12	<=34.77	Pass
		50	0	22.92	-0.63	20.14	<=34.77	Pass
	707.5	1	0	23.68	-0.63	20.90	<=34.77	Pass
			25	23.85	-0.63	21.07	<=34.77	Pass
			49	23.77	-0.63	20.99	<=34.77	Pass
		25	0	22.86	-0.63	20.08	<=34.77	Pass
			13	22.86	-0.63	20.08	<=34.77	Pass
			25	22.86	-0.63	20.08	<=34.77	Pass
		50	0	22.92	-0.63	20.14	<=34.77	Pass
	711	1	0	23.72	-0.63	20.94	<=34.77	Pass
			25	23.95	-0.63	21.17	<=34.77	Pass

16QAM	704	25	49	23.86	-0.63	21.08	<=34.77	Pass
			0	22.72	-0.63	19.94	<=34.77	Pass
			13	22.82	-0.63	20.04	<=34.77	Pass
			25	22.68	-0.63	19.90	<=34.77	Pass
		50	0	22.76	-0.63	19.98	<=34.77	Pass
	707.5	1	0	22.85	-0.63	20.07	<=34.77	Pass
			25	23.10	-0.63	20.32	<=34.77	Pass
			49	22.93	-0.63	20.15	<=34.77	Pass
		25	0	21.90	-0.63	19.12	<=34.77	Pass
			13	21.89	-0.63	19.11	<=34.77	Pass
			25	21.95	-0.63	19.17	<=34.77	Pass
		50	0	21.93	-0.63	19.15	<=34.77	Pass
		1	0	23.27	-0.63	20.49	<=34.77	Pass
			25	23.44	-0.63	20.66	<=34.77	Pass
			49	23.33	-0.63	20.55	<=34.77	Pass
		25	0	21.92	-0.63	19.14	<=34.77	Pass
			13	21.91	-0.63	19.13	<=34.77	Pass
			25	21.92	-0.63	19.14	<=34.77	Pass
		50	0	21.93	-0.63	19.15	<=34.77	Pass
	711	1	0	22.77	-0.63	19.99	<=34.77	Pass
			25	22.96	-0.63	20.18	<=34.77	Pass
			49	22.80	-0.63	20.02	<=34.77	Pass
		25	0	21.82	-0.63	19.04	<=34.77	Pass
			13	21.93	-0.63	19.15	<=34.77	Pass
			25	21.83	-0.63	19.05	<=34.77	Pass
		50	0	21.80	-0.63	19.02	<=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	-9.427	-0.0135	-2.5 to 2.5	Pass
					3.85	-3.061	-0.0044	-2.5 to 2.5	Pass
					4.43	-4.463	-0.0064	-2.5 to 2.5	Pass
				-30	3.85	-9.713	-0.0139	-2.5 to 2.5	Pass
				-20	3.85	-3.476	-0.0050	-2.5 to 2.5	Pass
				-10	3.85	-8.569	-0.0122	-2.5 to 2.5	Pass
				0	3.85	-9.499	-0.0136	-2.5 to 2.5	Pass
				10	3.85	-4.792	-0.0068	-2.5 to 2.5	Pass
				30	3.85	-6.523	-0.0093	-2.5 to 2.5	Pass
				40	3.85	-7.224	-0.0103	-2.5 to 2.5	Pass
				50	3.85	-6.666	-0.0095	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-6.022	-0.0085	-2.5 to 2.5	Pass
					3.85	-4.835	-0.0068	-2.5 to 2.5	Pass
					4.43	-5.493	-0.0078	-2.5 to 2.5	Pass
				-30	3.85	-6.151	-0.0087	-2.5 to 2.5	Pass
				-20	3.85	-5.522	-0.0078	-2.5 to 2.5	Pass
				-10	3.85	-3.862	-0.0055	-2.5 to 2.5	Pass
				0	3.85	-1.760	-0.0025	-2.5 to 2.5	Pass
				10	3.85	-4.377	-0.0062	-2.5 to 2.5	Pass

	715.3	6	0	30	3.85	-3.676	-0.0052	-2.5 to 2.5	Pass
				40	3.85	-3.791	-0.0054	-2.5 to 2.5	Pass
				50	3.85	-4.320	-0.0061	-2.5 to 2.5	Pass
				20	3.27	-4.663	-0.0065	-2.5 to 2.5	Pass
					3.85	-7.281	-0.0102	-2.5 to 2.5	Pass
					4.43	-1.559	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	-4.392	-0.0061	-2.5 to 2.5	Pass
				-20	3.85	-6.266	-0.0088	-2.5 to 2.5	Pass
				-10	3.85	-6.480	-0.0091	-2.5 to 2.5	Pass
				0	3.85	-7.610	-0.0106	-2.5 to 2.5	Pass
				10	3.85	-5.364	-0.0075	-2.5 to 2.5	Pass
				30	3.85	-6.037	-0.0084	-2.5 to 2.5	Pass
				40	3.85	-4.778	-0.0067	-2.5 to 2.5	Pass
				50	3.85	-8.197	-0.0115	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	-7.353	-0.0105	-2.5 to 2.5	Pass
					3.85	-3.762	-0.0054	-2.5 to 2.5	Pass
					4.43	-5.350	-0.0076	-2.5 to 2.5	Pass
				-30	3.85	-7.381	-0.0105	-2.5 to 2.5	Pass
				-20	3.85	-5.693	-0.0081	-2.5 to 2.5	Pass
				-10	3.85	-9.041	-0.0129	-2.5 to 2.5	Pass
				0	3.85	-8.469	-0.0121	-2.5 to 2.5	Pass
				10	3.85	-8.240	-0.0118	-2.5 to 2.5	Pass
				30	3.85	-9.084	-0.0130	-2.5 to 2.5	Pass
				40	3.85	-4.663	-0.0067	-2.5 to 2.5	Pass
				50	3.85	-2.246	-0.0032	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-9.069	-0.0128	-2.5 to 2.5	Pass
					3.85	-2.232	-0.0032	-2.5 to 2.5	Pass
					4.43	-3.448	-0.0049	-2.5 to 2.5	Pass
				-30	3.85	-2.575	-0.0036	-2.5 to 2.5	Pass
				-20	3.85	-2.632	-0.0037	-2.5 to 2.5	Pass
				-10	3.85	-2.675	-0.0038	-2.5 to 2.5	Pass
				0	3.85	-7.482	-0.0106	-2.5 to 2.5	Pass
				10	3.85	-4.463	-0.0063	-2.5 to 2.5	Pass
				30	3.85	-5.922	-0.0084	-2.5 to 2.5	Pass
				40	3.85	-6.924	-0.0098	-2.5 to 2.5	Pass
				50	3.85	-4.578	-0.0065	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-9.170	-0.0128	-2.5 to 2.5	Pass
					3.85	-4.220	-0.0059	-2.5 to 2.5	Pass
					4.43	-8.297	-0.0116	-2.5 to 2.5	Pass
				-30	3.85	-3.247	-0.0045	-2.5 to 2.5	Pass
				-20	3.85	-5.679	-0.0079	-2.5 to 2.5	Pass
				-10	3.85	-7.710	-0.0108	-2.5 to 2.5	Pass
				0	3.85	-5.951	-0.0083	-2.5 to 2.5	Pass
				10	3.85	-4.621	-0.0065	-2.5 to 2.5	Pass
				30	3.85	-10.085	-0.0141	-2.5 to 2.5	Pass
				40	3.85	-8.483	-0.0119	-2.5 to 2.5	Pass
				50	3.85	-1.073	-0.0015	-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	-10.414	-0.0149	-2.5 to 2.5	Pass
					3.85	-10.386	-0.0148	-2.5 to 2.5	Pass
					4.43	-9.069	-0.0129	-2.5 to 2.5	Pass
				-30	3.85	-7.882	-0.0113	-2.5 to 2.5	Pass
				-20	3.85	-8.197	-0.0117	-2.5 to 2.5	Pass

				-10	3.85	-7.381	-0.0105	-2.5 to 2.5	Pass
				0	3.85	-6.237	-0.0089	-2.5 to 2.5	Pass
				10	3.85	-5.336	-0.0076	-2.5 to 2.5	Pass
				30	3.85	-5.279	-0.0075	-2.5 to 2.5	Pass
				40	3.85	-7.839	-0.0112	-2.5 to 2.5	Pass
	707.5	15	0	50	3.85	-5.393	-0.0077	-2.5 to 2.5	Pass
				20	3.27	-7.896	-0.0112	-2.5 to 2.5	Pass
					3.85	-8.712	-0.0123	-2.5 to 2.5	Pass
					4.43	-5.307	-0.0075	-2.5 to 2.5	Pass
				-30	3.85	-5.035	-0.0071	-2.5 to 2.5	Pass
				-20	3.85	-4.163	-0.0059	-2.5 to 2.5	Pass
				-10	3.85	-6.123	-0.0087	-2.5 to 2.5	Pass
				0	3.85	-5.894	-0.0083	-2.5 to 2.5	Pass
				10	3.85	-3.748	-0.0053	-2.5 to 2.5	Pass
				30	3.85	-5.965	-0.0084	-2.5 to 2.5	Pass
				40	3.85	-5.794	-0.0082	-2.5 to 2.5	Pass
				50	3.85	-8.383	-0.0118	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-5.651	-0.0079	-2.5 to 2.5	Pass
					3.85	-8.240	-0.0115	-2.5 to 2.5	Pass
					4.43	-7.997	-0.0112	-2.5 to 2.5	Pass
				-30	3.85	-7.081	-0.0099	-2.5 to 2.5	Pass
				-20	3.85	-5.221	-0.0073	-2.5 to 2.5	Pass
				-10	3.85	-4.563	-0.0064	-2.5 to 2.5	Pass
				0	3.85	-3.920	-0.0055	-2.5 to 2.5	Pass
				10	3.85	-5.693	-0.0080	-2.5 to 2.5	Pass
				30	3.85	-10.686	-0.0150	-2.5 to 2.5	Pass
				40	3.85	-8.082	-0.0113	-2.5 to 2.5	Pass
				50	3.85	-6.838	-0.0096	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	-7.782	-0.0111	-2.5 to 2.5	Pass
					3.85	-3.319	-0.0047	-2.5 to 2.5	Pass
					4.43	-9.241	-0.0132	-2.5 to 2.5	Pass
				-30	3.85	-3.591	-0.0051	-2.5 to 2.5	Pass
				-20	3.85	-6.351	-0.0091	-2.5 to 2.5	Pass
				-10	3.85	-4.506	-0.0064	-2.5 to 2.5	Pass
				0	3.85	-5.951	-0.0085	-2.5 to 2.5	Pass
				10	3.85	-6.523	-0.0093	-2.5 to 2.5	Pass
				30	3.85	-9.513	-0.0136	-2.5 to 2.5	Pass
				40	3.85	-7.782	-0.0111	-2.5 to 2.5	Pass
				50	3.85	-6.995	-0.0100	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-5.178	-0.0073	-2.5 to 2.5	Pass
					3.85	-5.350	-0.0076	-2.5 to 2.5	Pass
					4.43	-4.792	-0.0068	-2.5 to 2.5	Pass
				-30	3.85	-4.849	-0.0069	-2.5 to 2.5	Pass
				-20	3.85	-4.020	-0.0057	-2.5 to 2.5	Pass
				-10	3.85	-5.264	-0.0074	-2.5 to 2.5	Pass
				0	3.85	-6.766	-0.0096	-2.5 to 2.5	Pass
				10	3.85	-6.809	-0.0096	-2.5 to 2.5	Pass
				30	3.85	-6.623	-0.0094	-2.5 to 2.5	Pass
				40	3.85	-2.832	-0.0040	-2.5 to 2.5	Pass
				50	3.85	-2.718	-0.0038	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-4.520	-0.0063	-2.5 to 2.5	Pass
					3.85	-2.904	-0.0041	-2.5 to 2.5	Pass
					4.43	-7.811	-0.0109	-2.5 to 2.5	Pass
				-30	3.85	-1.545	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	-4.878	-0.0068	-2.5 to 2.5	Pass
				-10	3.85	-4.621	-0.0065	-2.5 to 2.5	Pass
				0	3.85	-7.653	-0.0107	-2.5 to 2.5	Pass
				10	3.85	-7.381	-0.0103	-2.5 to 2.5	Pass
				30	3.85	-4.706	-0.0066	-2.5 to 2.5	Pass

				40	3.85	-6.022	-0.0084	-2.5 to 2.5	Pass
				50	3.85	-5.164	-0.0072	-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	-6.552	-0.0093	-2.5 to 2.5	Pass
					3.85	-7.439	-0.0106	-2.5 to 2.5	Pass
					4.43	-3.762	-0.0054	-2.5 to 2.5	Pass
				-30	3.85	-7.095	-0.0101	-2.5 to 2.5	Pass
				-20	3.85	-9.112	-0.0130	-2.5 to 2.5	Pass
				-10	3.85	-8.612	-0.0123	-2.5 to 2.5	Pass
				0	3.85	-3.219	-0.0046	-2.5 to 2.5	Pass
				10	3.85	-3.290	-0.0047	-2.5 to 2.5	Pass
				30	3.85	-4.964	-0.0071	-2.5 to 2.5	Pass
				40	3.85	-0.730	-0.0010	-2.5 to 2.5	Pass
				50	3.85	-8.397	-0.0120	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-4.721	-0.0067	-2.5 to 2.5	Pass
					3.85	-2.918	-0.0041	-2.5 to 2.5	Pass
					4.43	-8.798	-0.0124	-2.5 to 2.5	Pass
				-30	3.85	-5.665	-0.0080	-2.5 to 2.5	Pass
				-20	3.85	-5.021	-0.0071	-2.5 to 2.5	Pass
				-10	3.85	-5.064	-0.0072	-2.5 to 2.5	Pass
				0	3.85	-4.921	-0.0070	-2.5 to 2.5	Pass
				10	3.85	-9.270	-0.0131	-2.5 to 2.5	Pass
				30	3.85	-4.077	-0.0058	-2.5 to 2.5	Pass
				40	3.85	-6.194	-0.0088	-2.5 to 2.5	Pass
				50	3.85	-3.591	-0.0051	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-9.556	-0.0134	-2.5 to 2.5	Pass
					3.85	-0.043	-0.0001	-2.5 to 2.5	Pass
					4.43	-3.104	-0.0044	-2.5 to 2.5	Pass
				-30	3.85	-2.675	-0.0037	-2.5 to 2.5	Pass
				-20	3.85	-7.138	-0.0100	-2.5 to 2.5	Pass
				-10	3.85	-3.104	-0.0044	-2.5 to 2.5	Pass
				0	3.85	-6.437	-0.0090	-2.5 to 2.5	Pass
				10	3.85	-6.566	-0.0092	-2.5 to 2.5	Pass
				30	3.85	-7.567	-0.0106	-2.5 to 2.5	Pass
				40	3.85	-2.003	-0.0028	-2.5 to 2.5	Pass
				50	3.85	-2.589	-0.0036	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-7.939	-0.0113	-2.5 to 2.5	Pass
					3.85	-3.290	-0.0047	-2.5 to 2.5	Pass
					4.43	-5.794	-0.0083	-2.5 to 2.5	Pass
				-30	3.85	-5.422	-0.0077	-2.5 to 2.5	Pass
				-20	3.85	-3.147	-0.0045	-2.5 to 2.5	Pass
				-10	3.85	-7.095	-0.0101	-2.5 to 2.5	Pass
				0	3.85	-5.279	-0.0075	-2.5 to 2.5	Pass
				10	3.85	-6.094	-0.0087	-2.5 to 2.5	Pass
				30	3.85	-7.424	-0.0106	-2.5 to 2.5	Pass
				40	3.85	-5.150	-0.0073	-2.5 to 2.5	Pass
				50	3.85	-5.107	-0.0073	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-6.194	-0.0088	-2.5 to 2.5	Pass
					3.85	-6.523	-0.0092	-2.5 to 2.5	Pass
					4.43	-3.562	-0.0050	-2.5 to 2.5	Pass
				-30	3.85	-10.142	-0.0143	-2.5 to 2.5	Pass
				-20	3.85	-3.591	-0.0051	-2.5 to 2.5	Pass
				-10	3.85	-9.584	-0.0135	-2.5 to 2.5	Pass

				0	3.85	-7.682	-0.0109	-2.5 to 2.5	Pass
				10	3.85	-8.454	-0.0119	-2.5 to 2.5	Pass
				30	3.85	-5.479	-0.0077	-2.5 to 2.5	Pass
				40	3.85	-5.021	-0.0071	-2.5 to 2.5	Pass
				50	3.85	-5.665	-0.0080	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-9.727	-0.0136	-2.5 to 2.5	Pass
					3.85	-2.675	-0.0037	-2.5 to 2.5	Pass
					4.43	-7.353	-0.0103	-2.5 to 2.5	Pass
				-30	3.85	-4.106	-0.0058	-2.5 to 2.5	Pass
				-20	3.85	-6.895	-0.0097	-2.5 to 2.5	Pass
				-10	3.85	-3.376	-0.0047	-2.5 to 2.5	Pass
				0	3.85	-6.895	-0.0097	-2.5 to 2.5	Pass
				10	3.85	-7.067	-0.0099	-2.5 to 2.5	Pass
				30	3.85	-4.292	-0.0060	-2.5 to 2.5	Pass
				40	3.85	-10.185	-0.0143	-2.5 to 2.5	Pass
				50	3.85	-5.937	-0.0083	-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	-8.683	-0.0123	-2.5 to 2.5	Pass
					3.85	-5.465	-0.0078	-2.5 to 2.5	Pass
					4.43	-5.865	-0.0083	-2.5 to 2.5	Pass
				-30	3.85	-6.323	-0.0090	-2.5 to 2.5	Pass
				-20	3.85	-2.589	-0.0037	-2.5 to 2.5	Pass
				-10	3.85	-4.749	-0.0067	-2.5 to 2.5	Pass
				0	3.85	-10.071	-0.0143	-2.5 to 2.5	Pass
				10	3.85	-4.077	-0.0058	-2.5 to 2.5	Pass
				30	3.85	-2.203	-0.0031	-2.5 to 2.5	Pass
				40	3.85	-4.606	-0.0065	-2.5 to 2.5	Pass
	707.5	50	0	50	3.85	-4.692	-0.0067	-2.5 to 2.5	Pass
				20	3.27	-9.141	-0.0129	-2.5 to 2.5	Pass
					3.85	-8.755	-0.0124	-2.5 to 2.5	Pass
					4.43	-4.320	-0.0061	-2.5 to 2.5	Pass
				-30	3.85	-7.267	-0.0103	-2.5 to 2.5	Pass
				-20	3.85	-5.322	-0.0075	-2.5 to 2.5	Pass
				-10	3.85	-6.166	-0.0087	-2.5 to 2.5	Pass
				0	3.85	-5.093	-0.0072	-2.5 to 2.5	Pass
				10	3.85	-4.878	-0.0069	-2.5 to 2.5	Pass
				30	3.85	-4.177	-0.0059	-2.5 to 2.5	Pass
	711	50	0	40	3.85	-5.422	-0.0077	-2.5 to 2.5	Pass
				50	3.85	-7.124	-0.0101	-2.5 to 2.5	Pass
				20	3.27	-7.153	-0.0101	-2.5 to 2.5	Pass
					3.85	-6.638	-0.0093	-2.5 to 2.5	Pass
					4.43	-6.266	-0.0088	-2.5 to 2.5	Pass
				-30	3.85	-6.666	-0.0094	-2.5 to 2.5	Pass
				-20	3.85	-4.063	-0.0057	-2.5 to 2.5	Pass
				-10	3.85	-7.453	-0.0105	-2.5 to 2.5	Pass
				0	3.85	-5.922	-0.0083	-2.5 to 2.5	Pass
				10	3.85	-6.452	-0.0091	-2.5 to 2.5	Pass
16QAM	704	50	0	20	3.85	-5.121	-0.0073	-2.5 to 2.5	Pass
					3.85	-3.576	-0.0051	-2.5 to 2.5	Pass
					4.43	-8.597	-0.0122	-2.5 to 2.5	Pass

				-30	3.85	-6.723	-0.0095	-2.5 to 2.5	Pass
				-20	3.85	-2.103	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	-7.038	-0.0100	-2.5 to 2.5	Pass
				0	3.85	-5.393	-0.0077	-2.5 to 2.5	Pass
				10	3.85	-6.280	-0.0089	-2.5 to 2.5	Pass
				30	3.85	-5.922	-0.0084	-2.5 to 2.5	Pass
				40	3.85	-5.994	-0.0085	-2.5 to 2.5	Pass
				50	3.85	-5.307	-0.0075	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-3.333	-0.0047	-2.5 to 2.5	Pass
					3.85	-5.665	-0.0080	-2.5 to 2.5	Pass
					4.43	-2.747	-0.0039	-2.5 to 2.5	Pass
				-30	3.85	-7.424	-0.0105	-2.5 to 2.5	Pass
				-20	3.85	-8.469	-0.0120	-2.5 to 2.5	Pass
				-10	3.85	-9.441	-0.0133	-2.5 to 2.5	Pass
				0	3.85	-3.977	-0.0056	-2.5 to 2.5	Pass
				10	3.85	-11.473	-0.0162	-2.5 to 2.5	Pass
				30	3.85	-9.127	-0.0129	-2.5 to 2.5	Pass
				40	3.85	-9.842	-0.0139	-2.5 to 2.5	Pass
				50	3.85	-5.693	-0.0080	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-4.649	-0.0065	-2.5 to 2.5	Pass
					3.85	-5.622	-0.0079	-2.5 to 2.5	Pass
					4.43	-9.642	-0.0136	-2.5 to 2.5	Pass
				-30	3.85	-4.964	-0.0070	-2.5 to 2.5	Pass
				-20	3.85	-3.662	-0.0052	-2.5 to 2.5	Pass
				-10	3.85	-8.469	-0.0119	-2.5 to 2.5	Pass
				0	3.85	-8.883	-0.0125	-2.5 to 2.5	Pass
				10	3.85	-8.969	-0.0126	-2.5 to 2.5	Pass
				30	3.85	-7.410	-0.0104	-2.5 to 2.5	Pass
				40	3.85	-6.022	-0.0085	-2.5 to 2.5	Pass
				50	3.85	-8.669	-0.0122	-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 / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	15	0	Refer To Test Graph		Pass
16QAM	707.5	15	0	Refer To Test Graph		Pass

3.1.3 B12_5MHz

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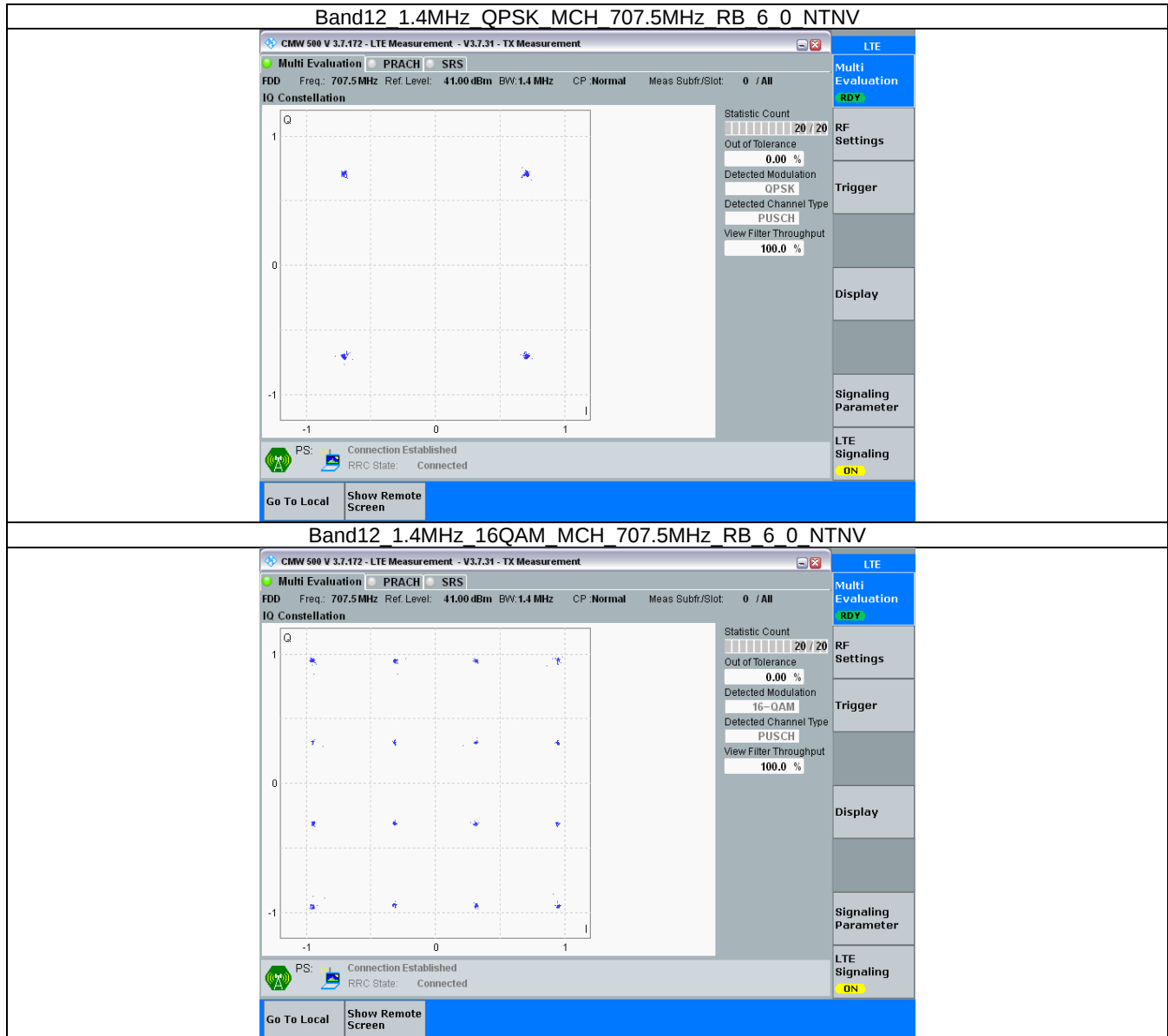
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

3.1.4 B12_10MHz

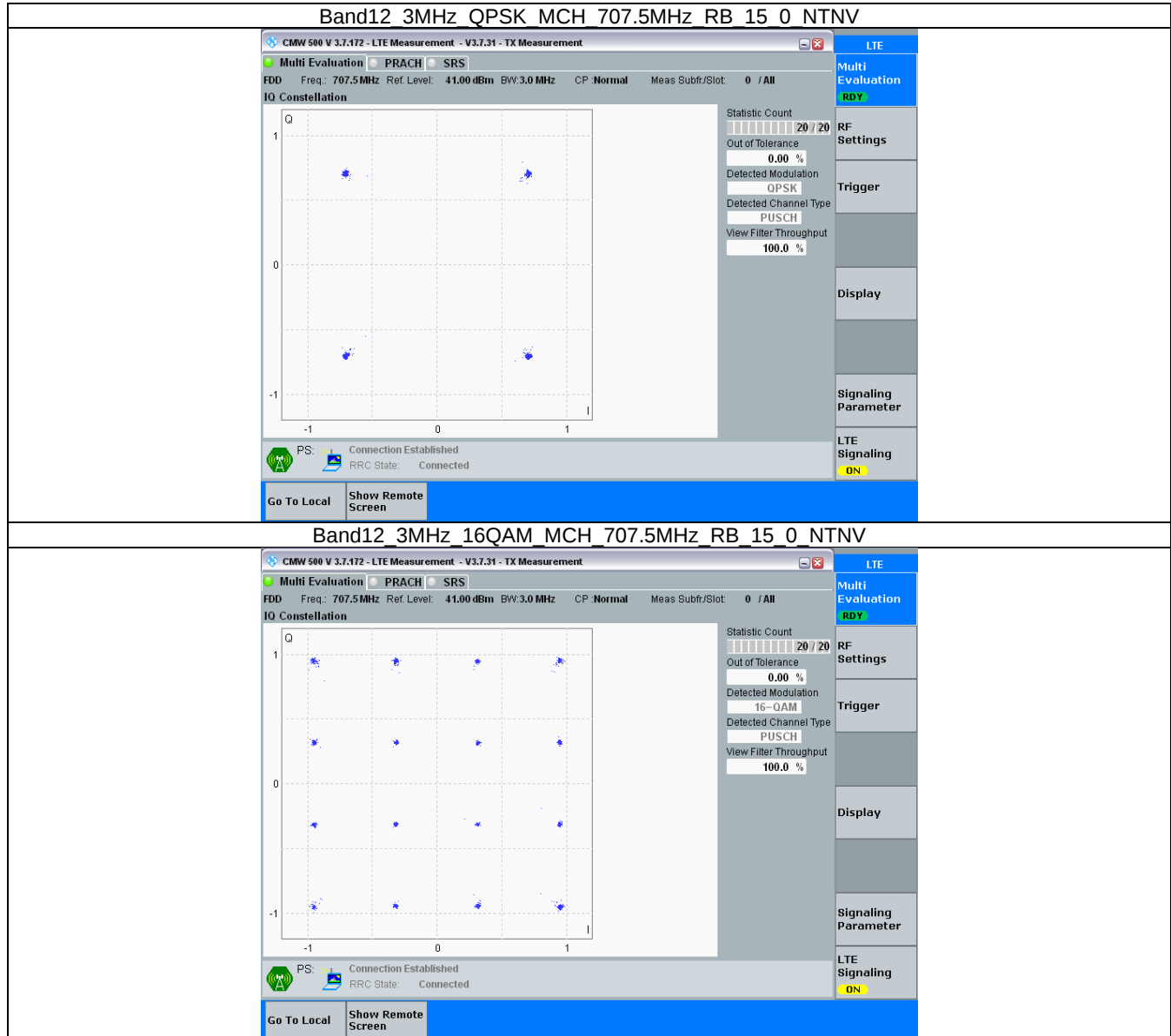
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

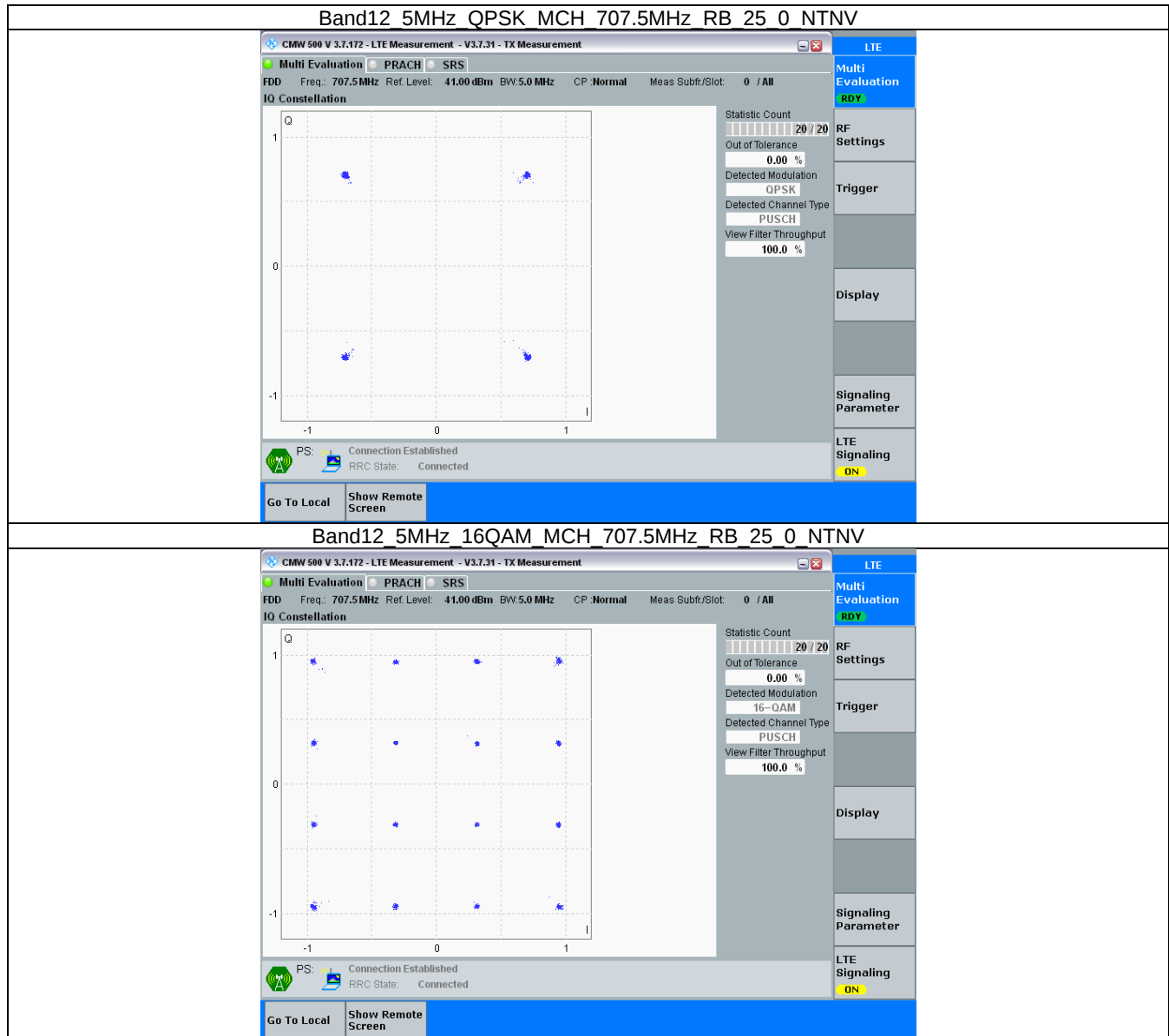
3.2.1 B12_1.4MHz



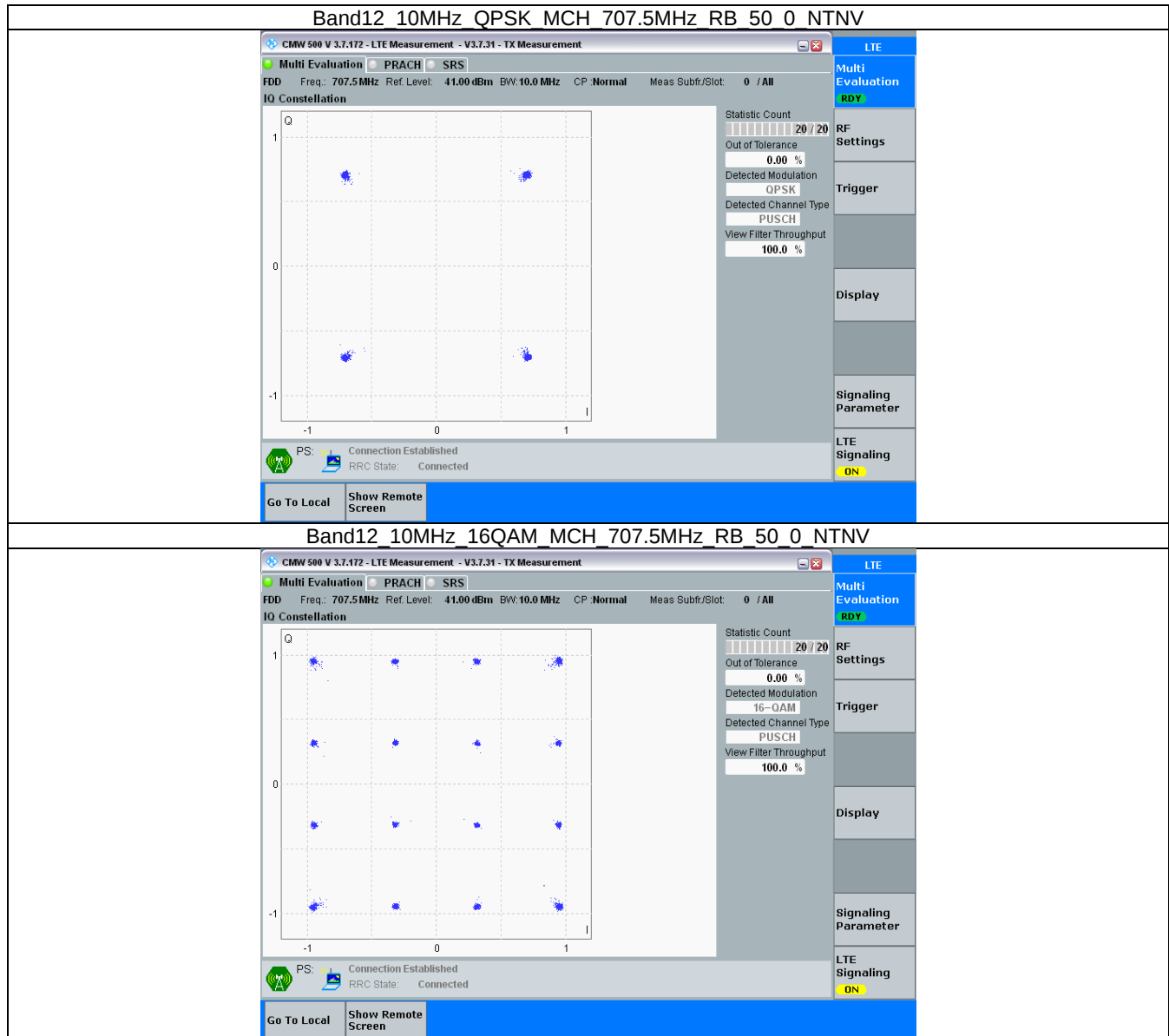
3.2.2 B12_3MHz



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	1.119	/	Pass
		707.5	6	0	1.108	/	Pass
		715.3	6	0	1.117	/	Pass
	16QAM	699.7	6	0	1.113	/	Pass
		707.5	6	0	1.106	/	Pass
		715.3	6	0	1.108	/	Pass
3	QPSK	700.5	15	0	2.725	/	Pass
		707.5	15	0	2.732	/	Pass
		714.5	15	0	2.727	/	Pass
	16QAM	700.5	15	0	2.713	/	Pass
		707.5	15	0	2.722	/	Pass
		714.5	15	0	2.723	/	Pass
5	QPSK	701.5	25	0	4.571	/	Pass
		707.5	25	0	4.573	/	Pass
		713.5	25	0	4.575	/	Pass
	16QAM	701.5	25	0	4.567	/	Pass
		707.5	25	0	4.579	/	Pass
		713.5	25	0	4.599	/	Pass
10	QPSK	704	50	0	9.094	/	Pass
		707.5	50	0	9.061	/	Pass
		711	50	0	9.071	/	Pass
	16QAM	704	50	0	9.090	/	Pass
		707.5	50	0	9.064	/	Pass
		711	50	0	9.023	/	Pass

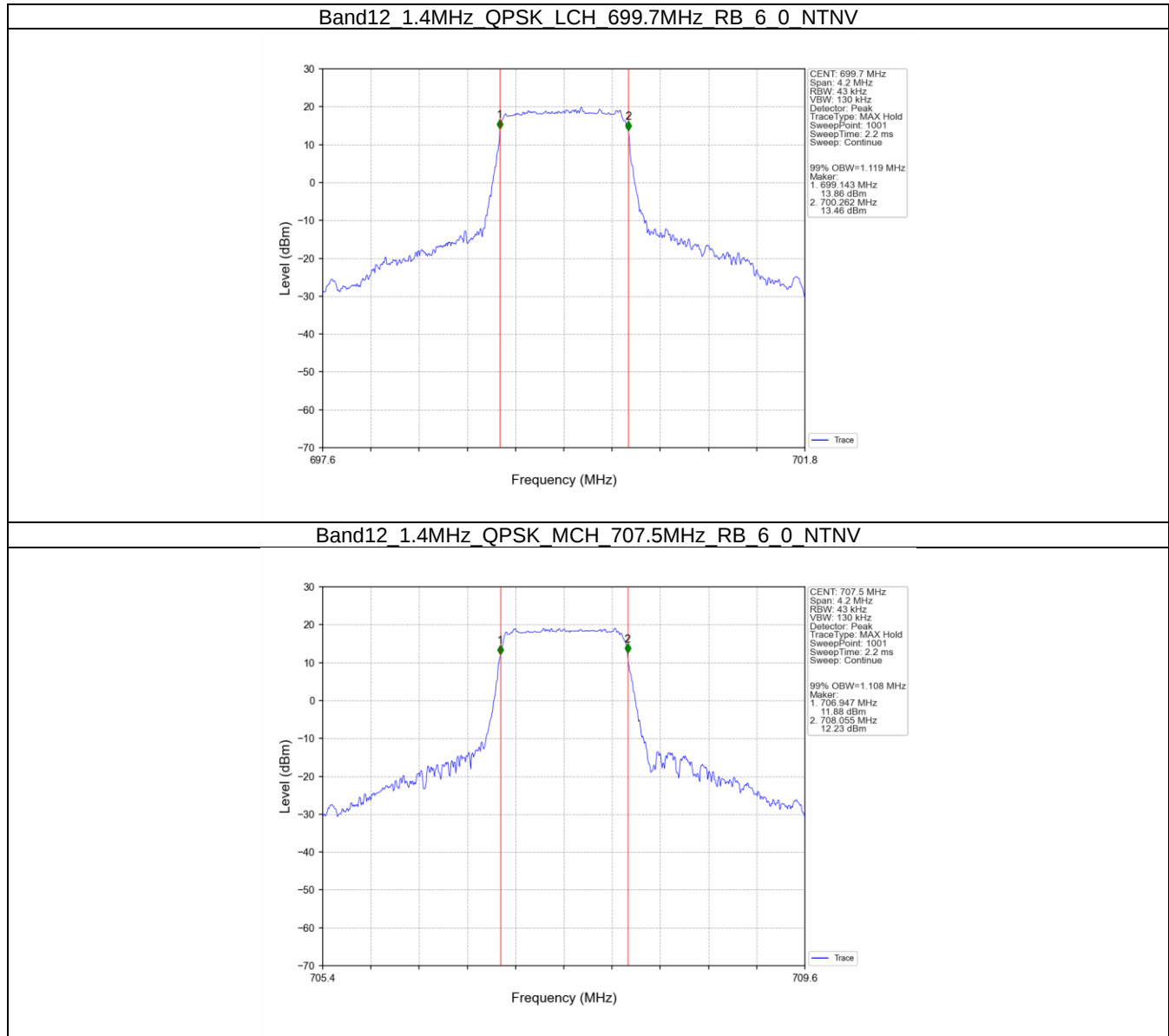
4.1.2 Band12_XDB

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	1.308	/	Pass
		707.5	6	0	1.318	/	Pass
		715.3	6	0	1.307	/	Pass
	16QAM	699.7	6	0	1.331	/	Pass
		707.5	6	0	1.335	/	Pass
		715.3	6	0	1.322	/	Pass
3	QPSK	700.5	15	0	3.010	/	Pass
		707.5	15	0	2.995	/	Pass
		714.5	15	0	2.998	/	Pass
	16QAM	700.5	15	0	2.976	/	Pass
		707.5	15	0	2.990	/	Pass
		714.5	15	0	2.995	/	Pass
5	QPSK	701.5	25	0	5.296	/	Pass
		707.5	25	0	5.242	/	Pass
		713.5	25	0	5.207	/	Pass

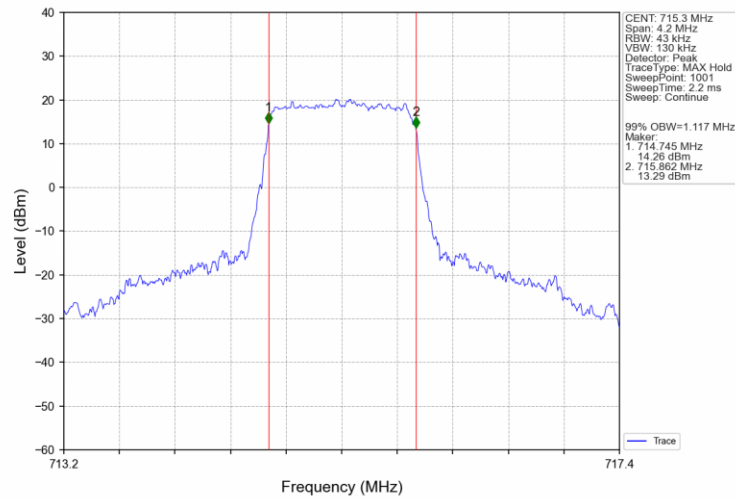
10	16QAM	701.5	25	0	5.243	/	Pass
		707.5	25	0	5.323	/	Pass
		713.5	25	0	5.273	/	Pass
	QPSK	704	50	0	10.272	/	Pass
		707.5	50	0	10.245	/	Pass
		711	50	0	10.271	/	Pass
	16QAM	704	50	0	10.174	/	Pass
		707.5	50	0	10.178	/	Pass
		711	50	0	10.182	/	Pass

4.2 Test Graph

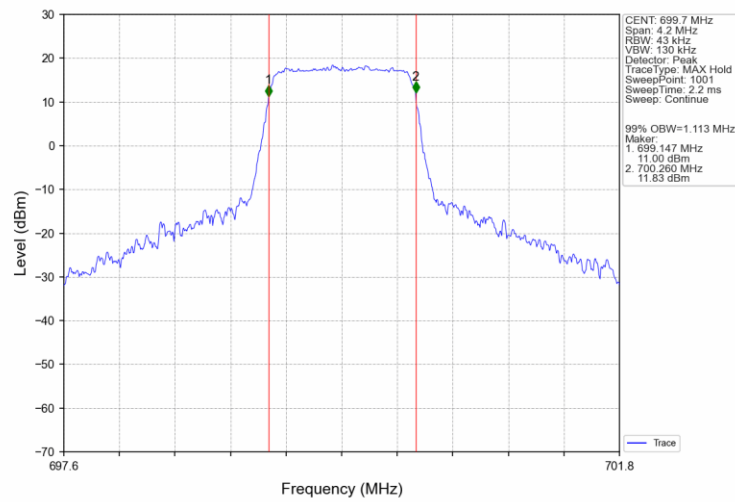
4.2.1 Band12_OBW



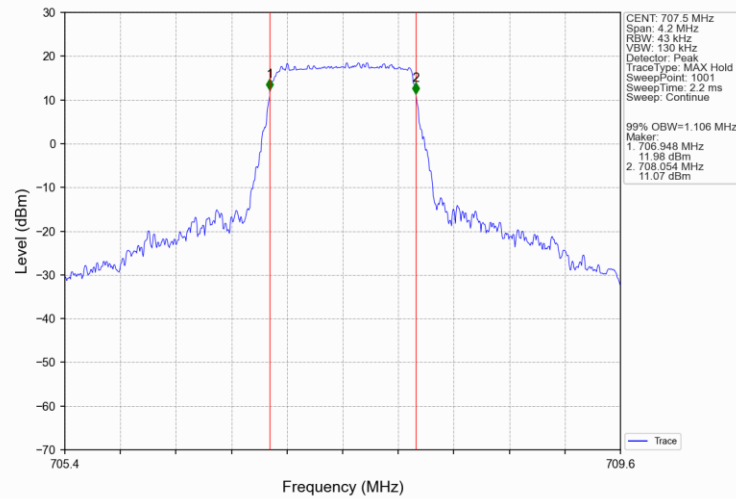
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTV



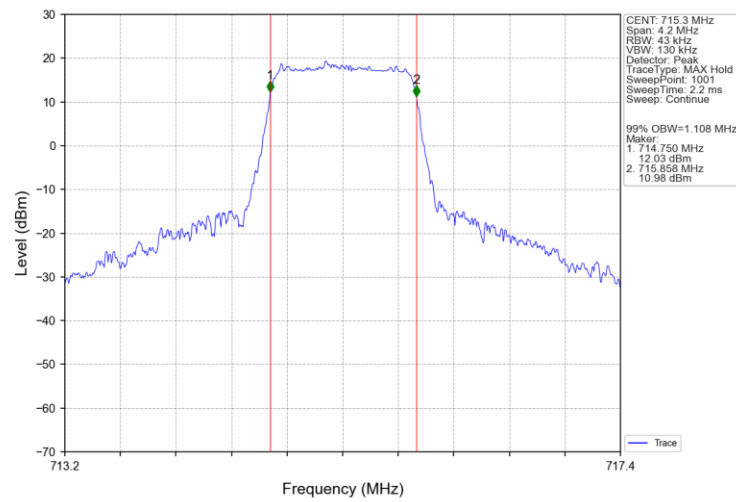
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTV



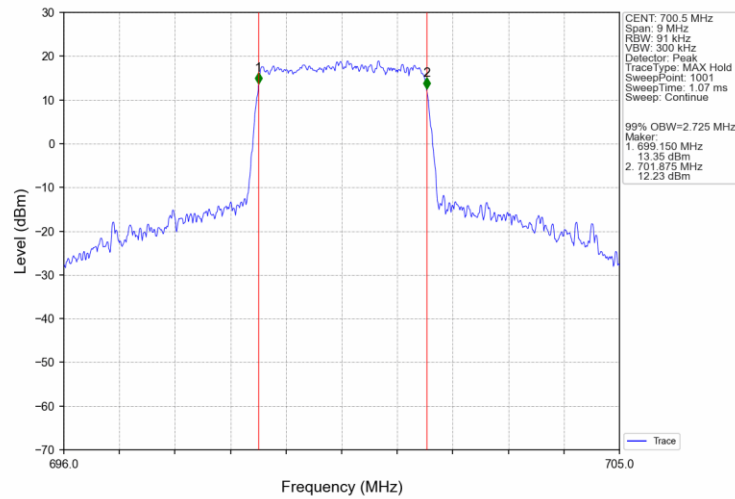
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTN



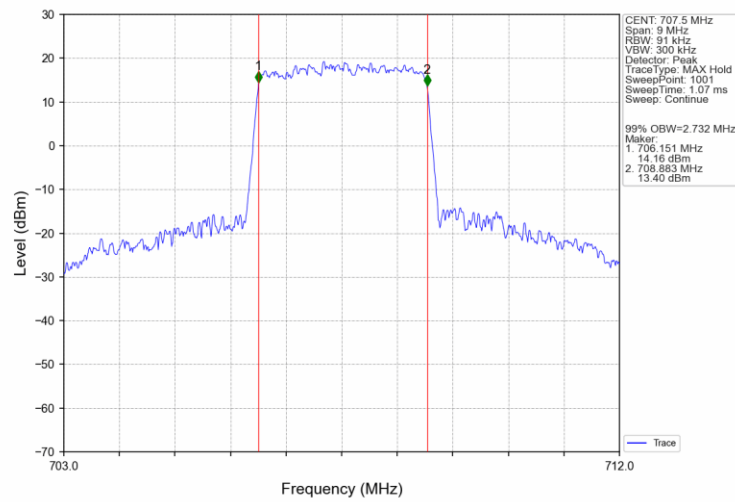
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTN



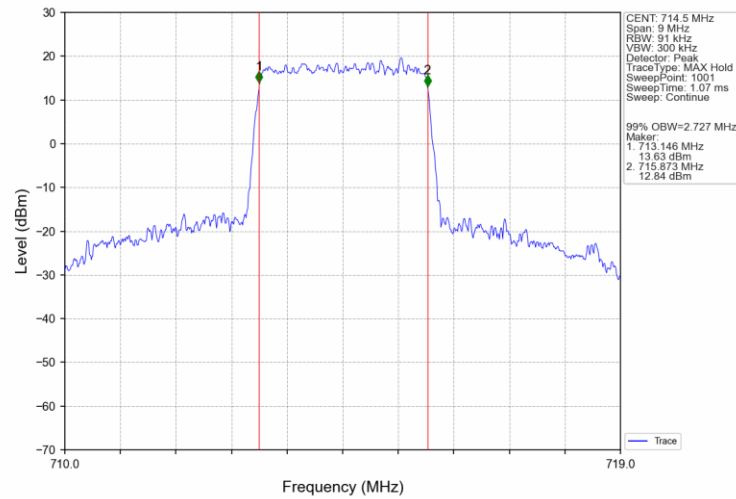
Band12 3MHz QPSK LCH 700.5MHz RB 15 0 NTV



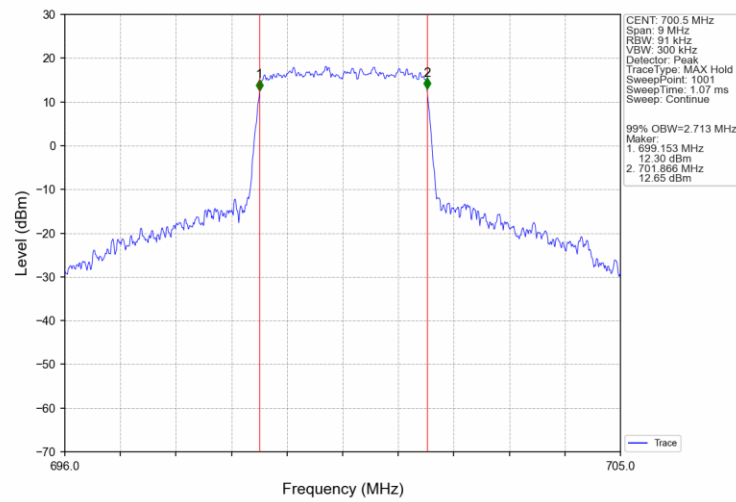
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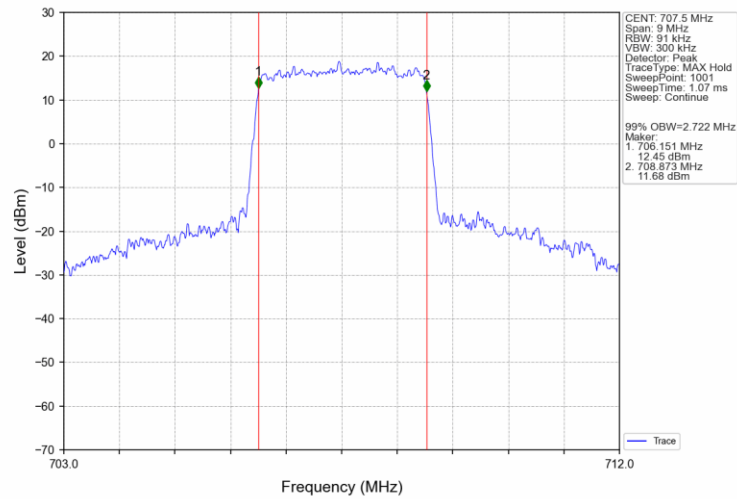
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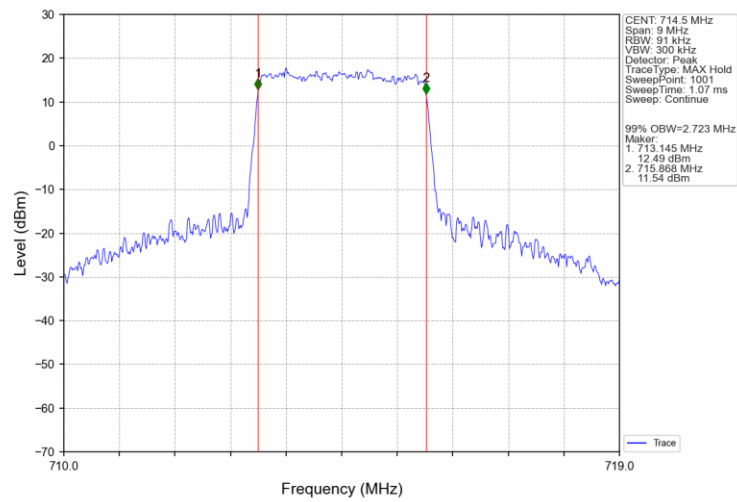
Band12 3MHz 16QAM LCH 700.5MHz RB 15 0 NTV



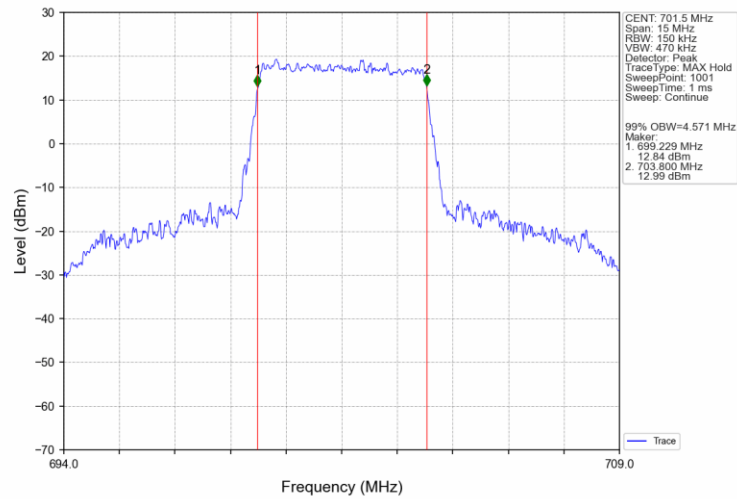
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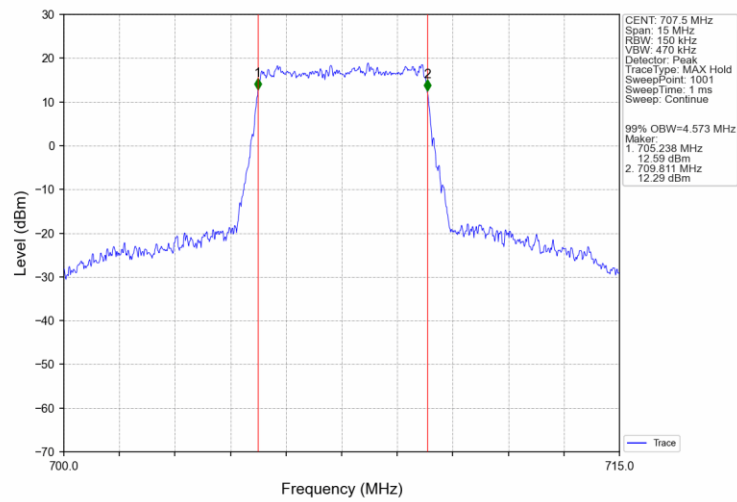
Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTN



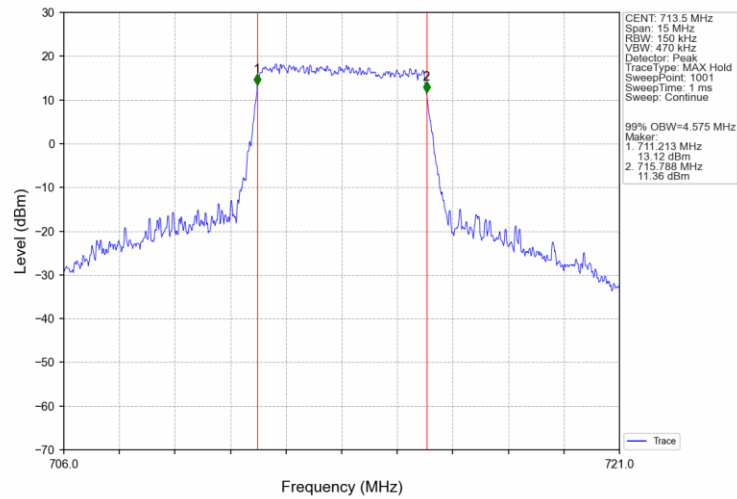
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



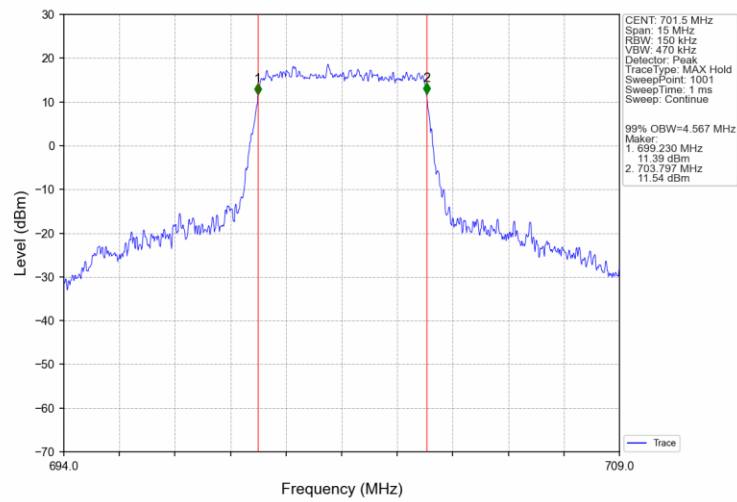
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



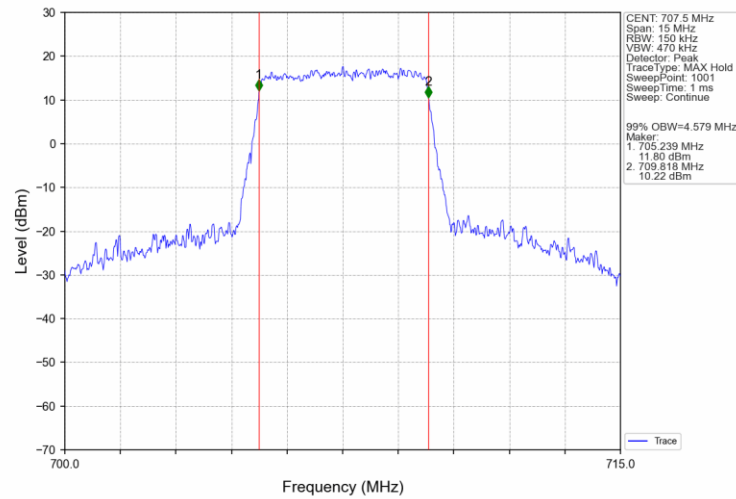
Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTV



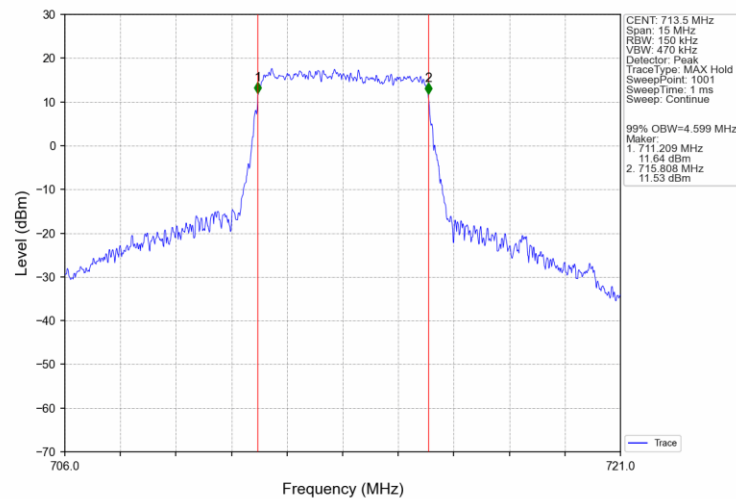
Band12 5MHz 16QAM LCH 701.5MHz RB 25 0 NTV



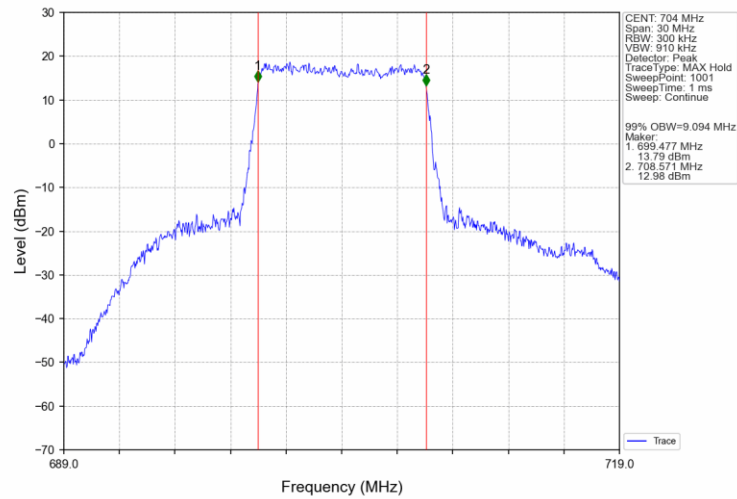
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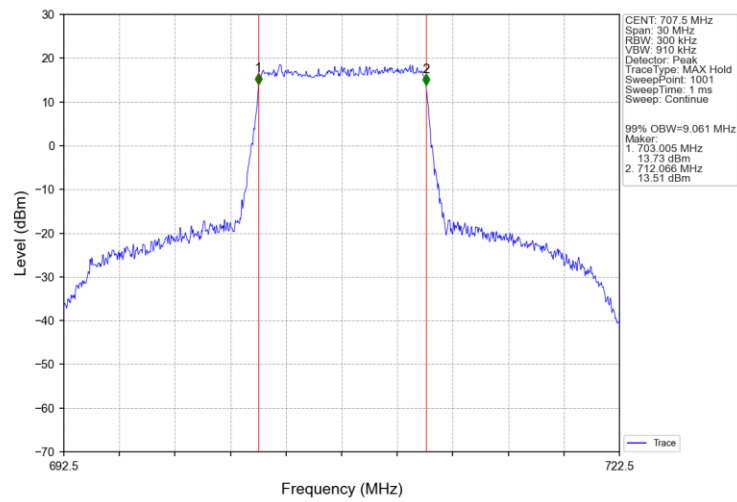
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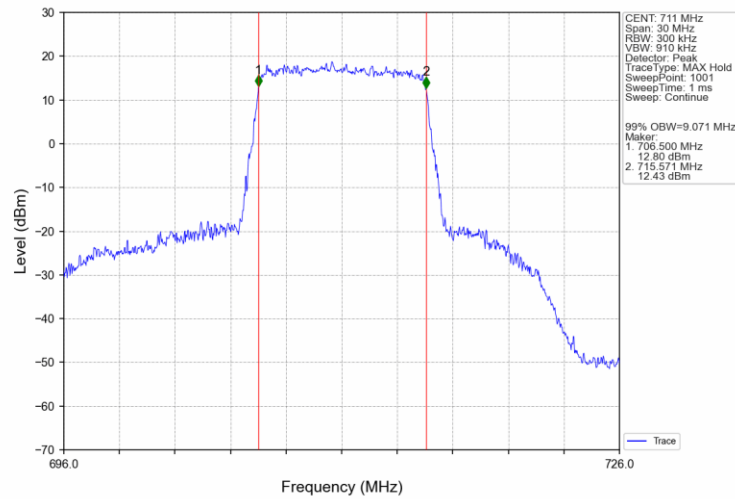
Band12 10MHz QPSK LCH 704MHz RB 50 0 NTN



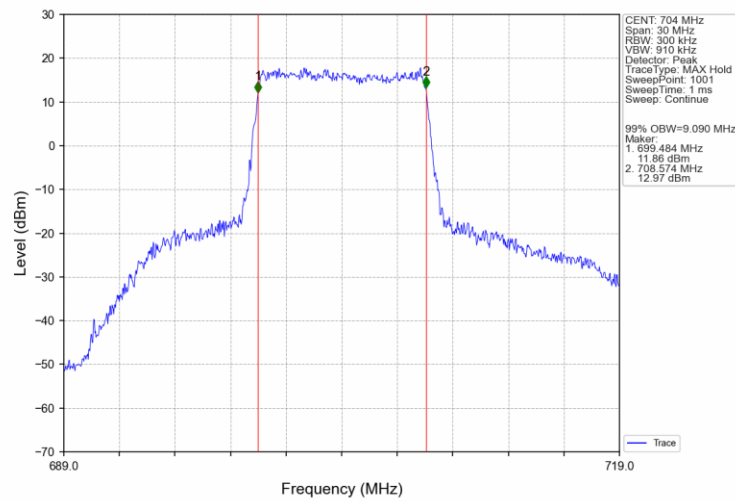
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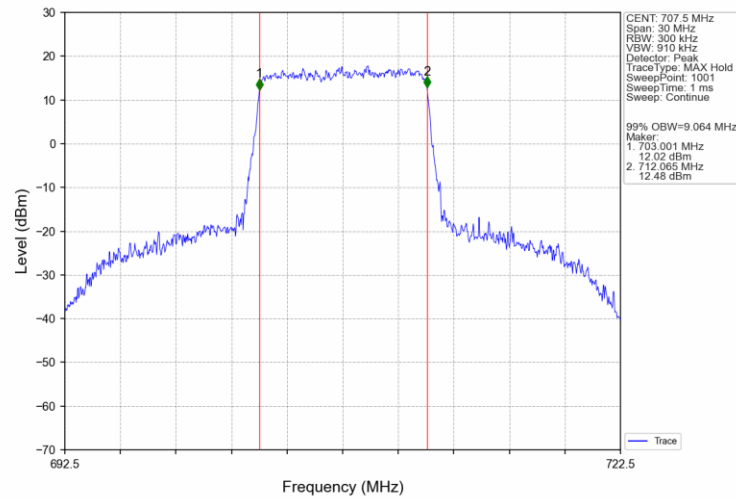
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



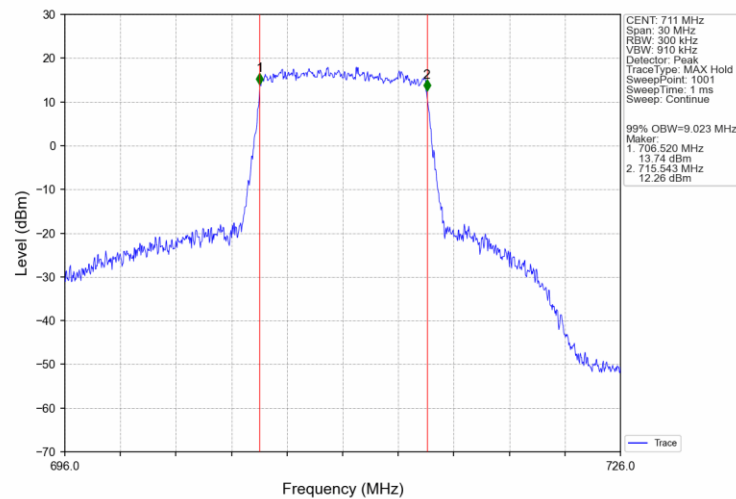
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12 10MHz 16QAM MCH 707.5MHz RB 50 0 NTN

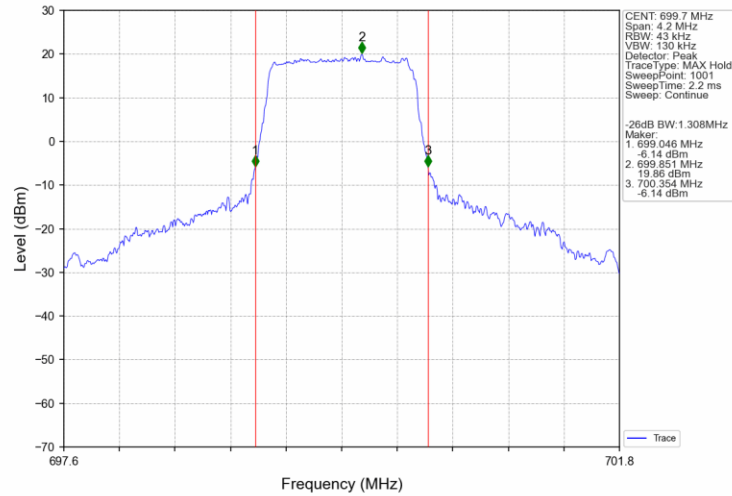


Band12 10MHz 16QAM HCH 711MHz RB 50 0 NTN

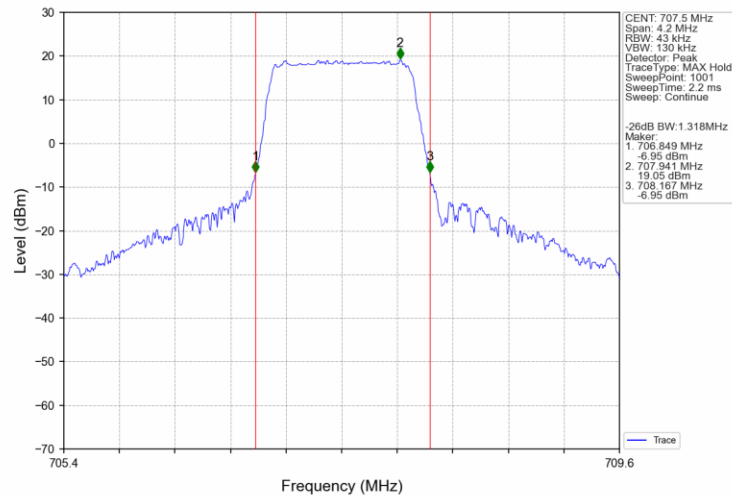


4.2.2 Band12_XDB

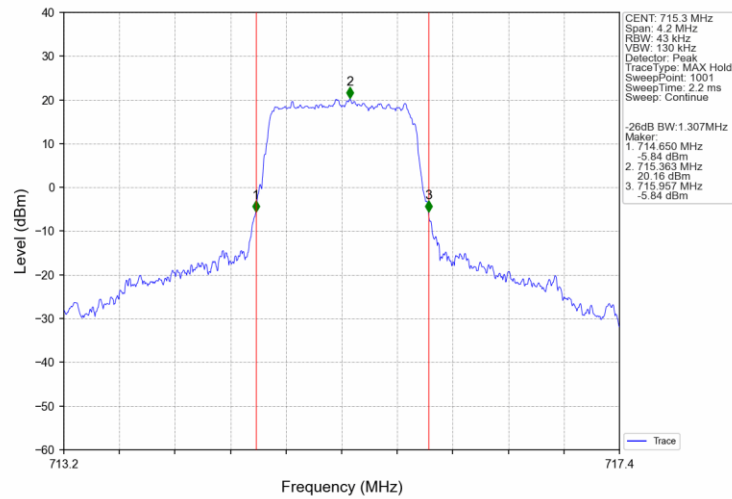
Band12 1.4MHz QPSK LCH 699.7MHz RB 6 0 NTV



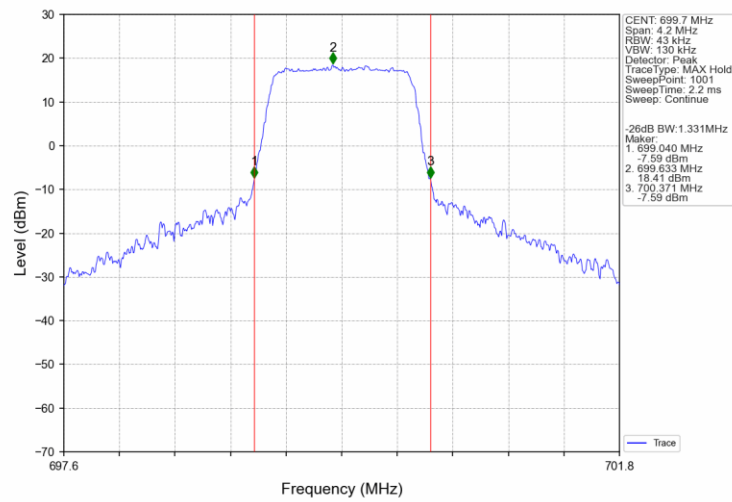
Band12 1.4MHz QPSK MCH 707.5MHz RB 6 0 NTV



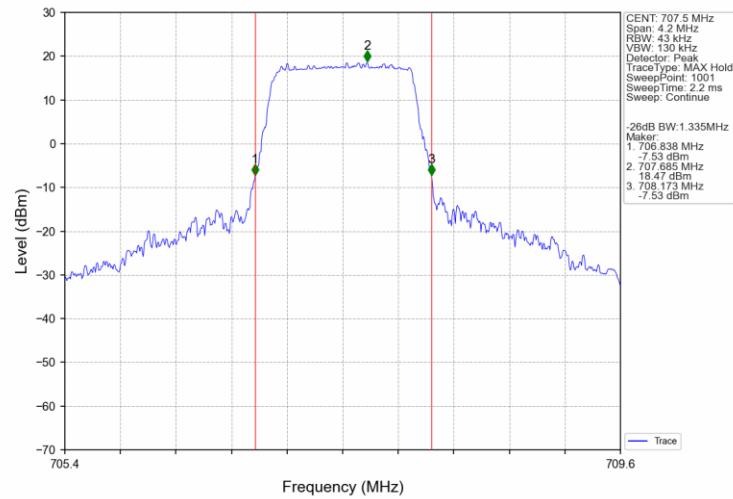
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTV



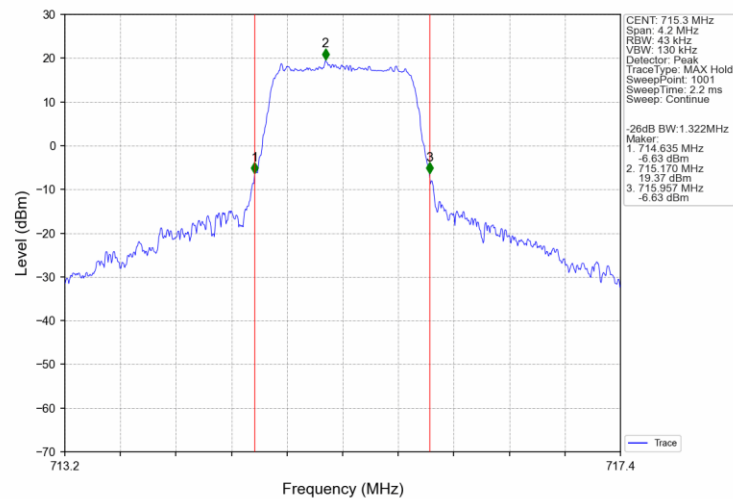
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTV



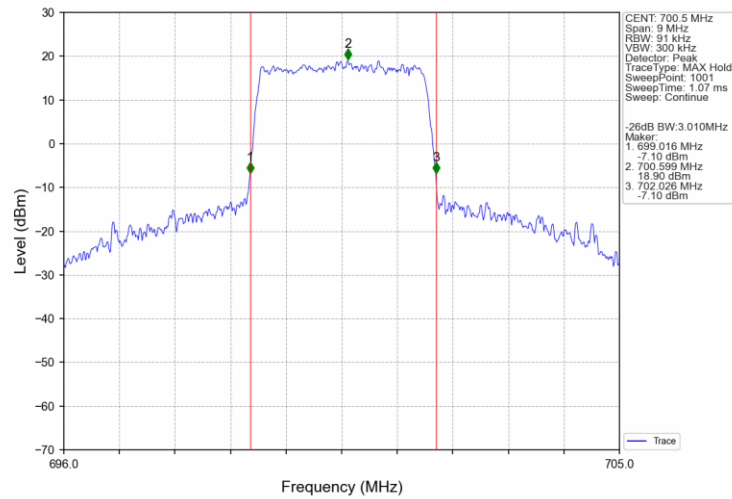
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTN



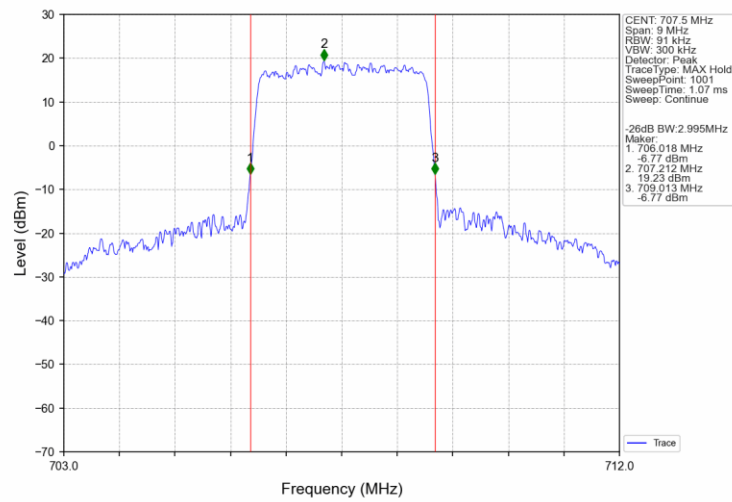
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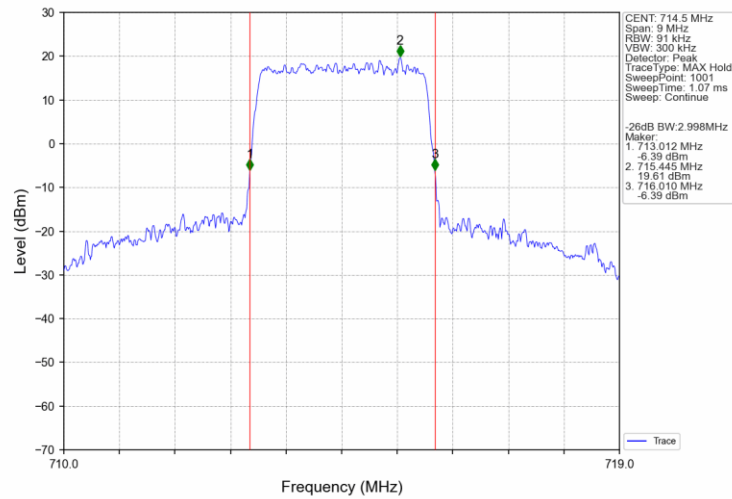
Band12 3MHz QPSK LCH 700.5MHz RB 15 0 NTV



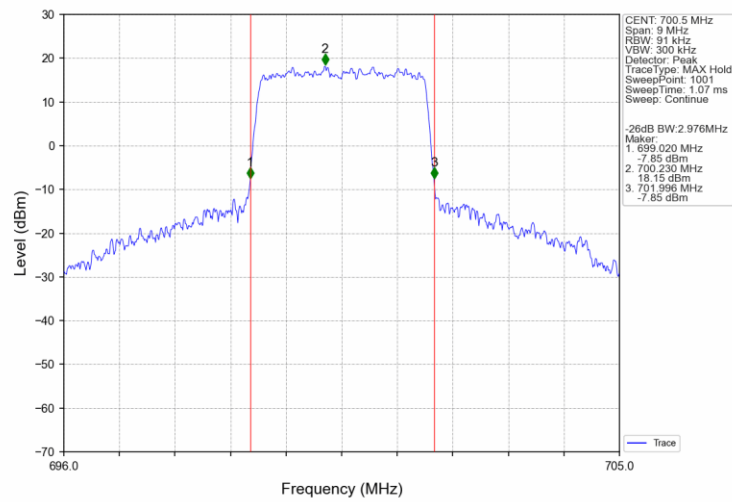
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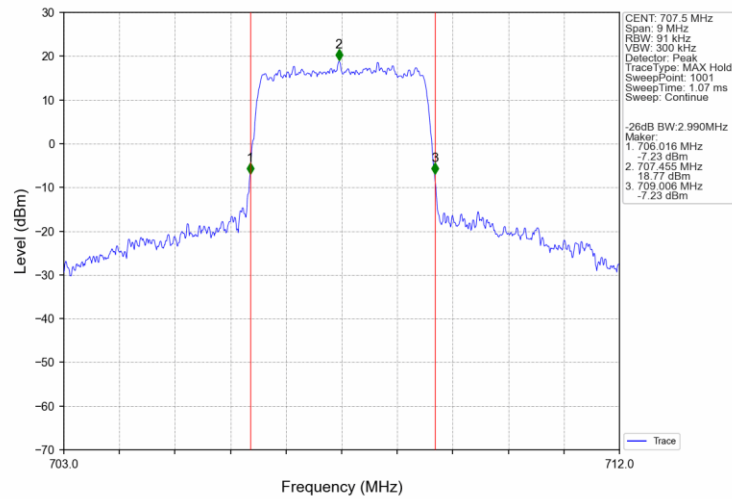
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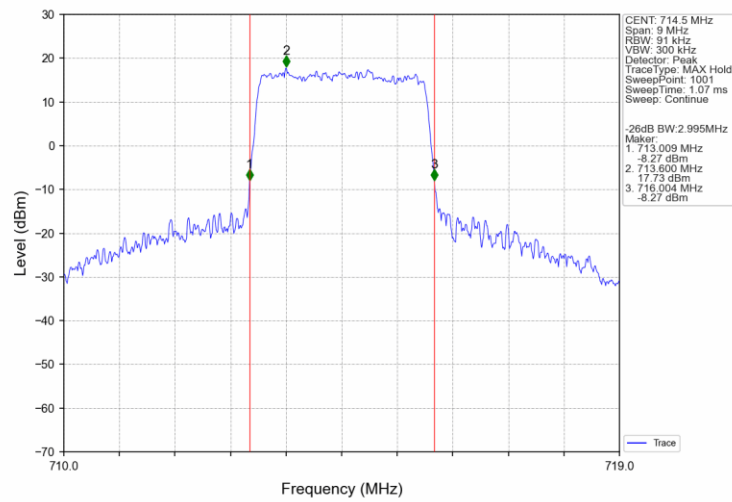
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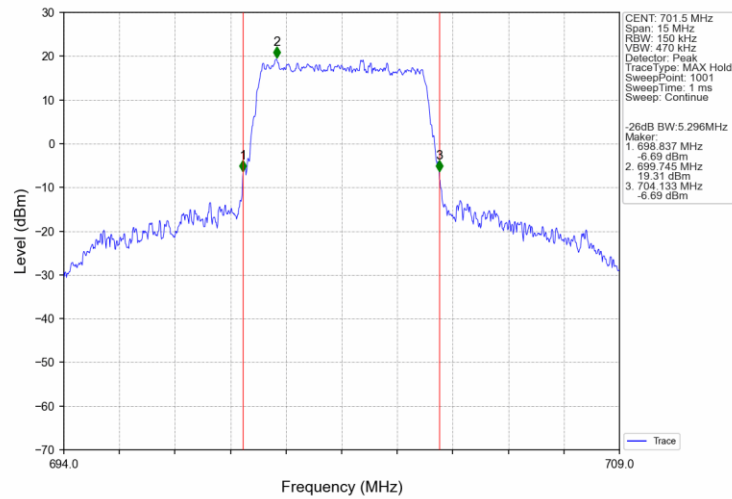
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTN



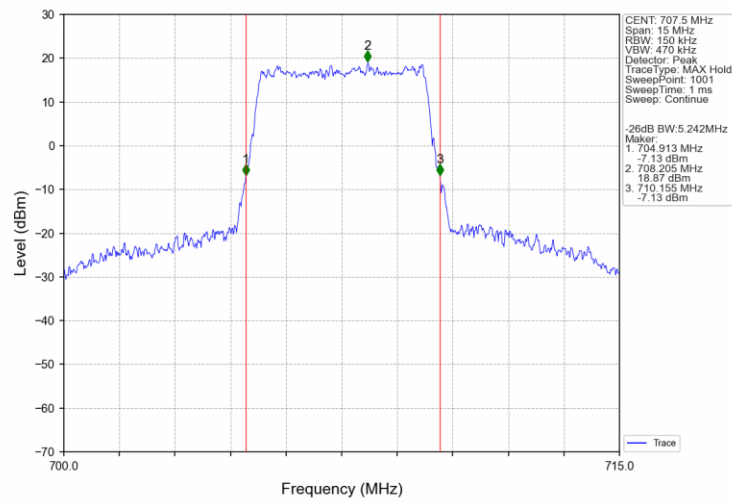
Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTN



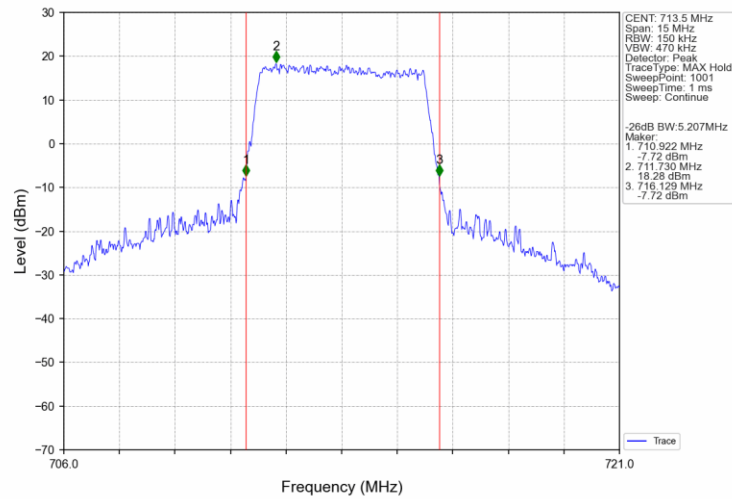
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



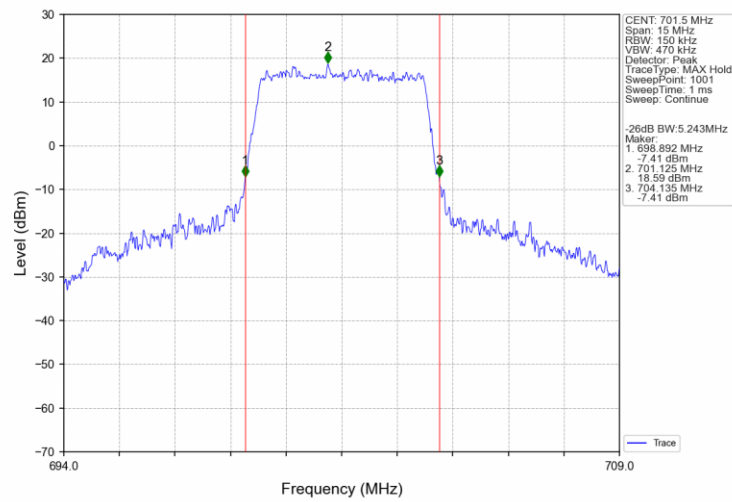
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



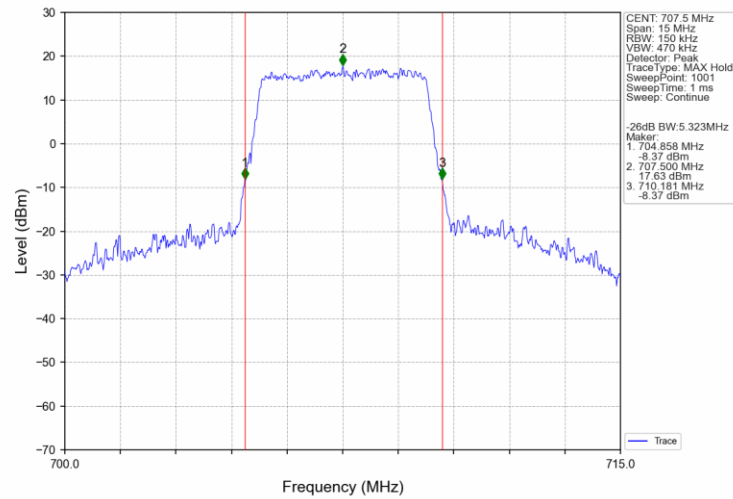
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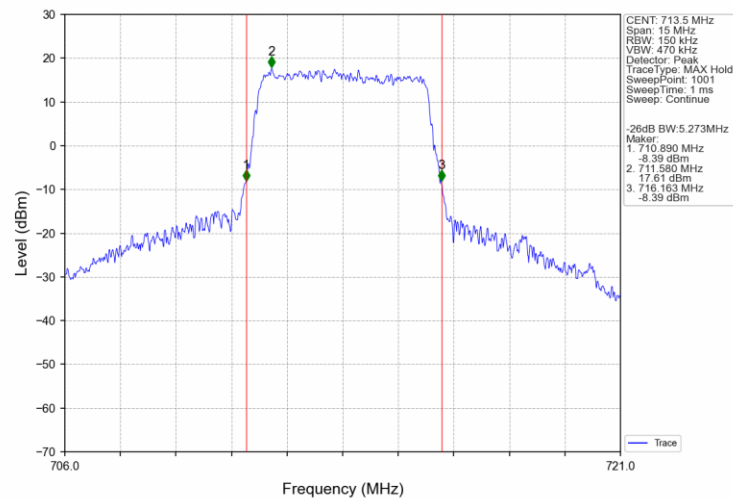
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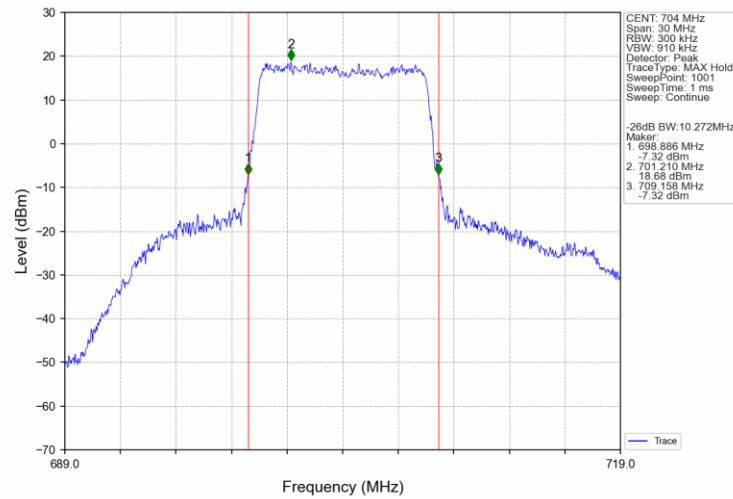
Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTN



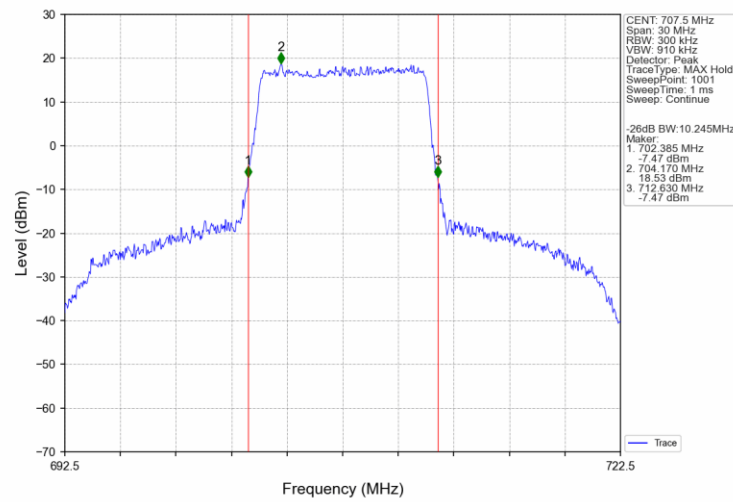
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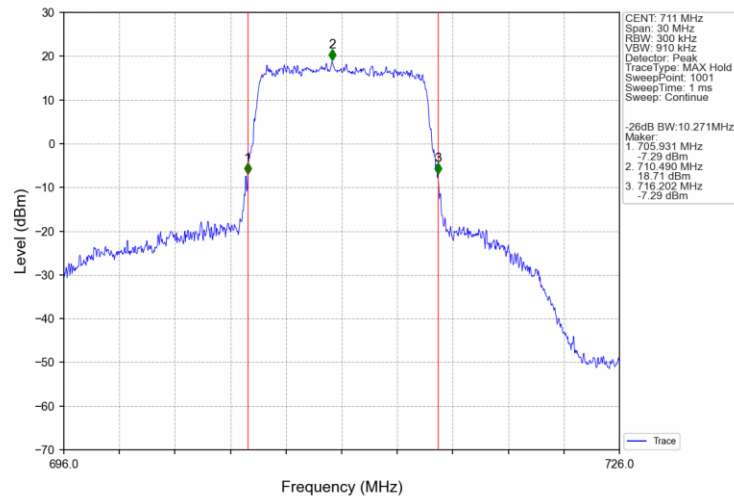
Band12 10MHz QPSK LCH 704MHz RB 50 0 NTN



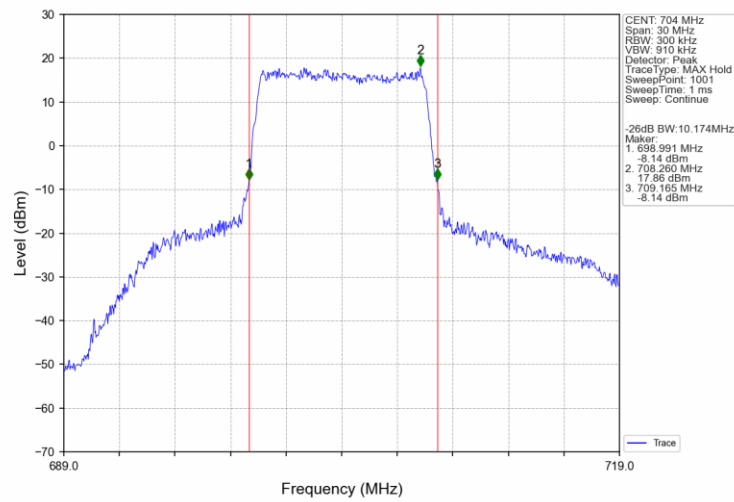
Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTN



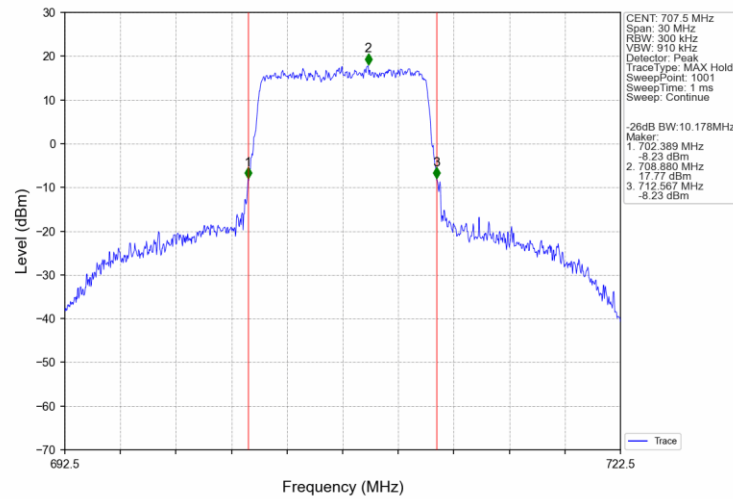
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



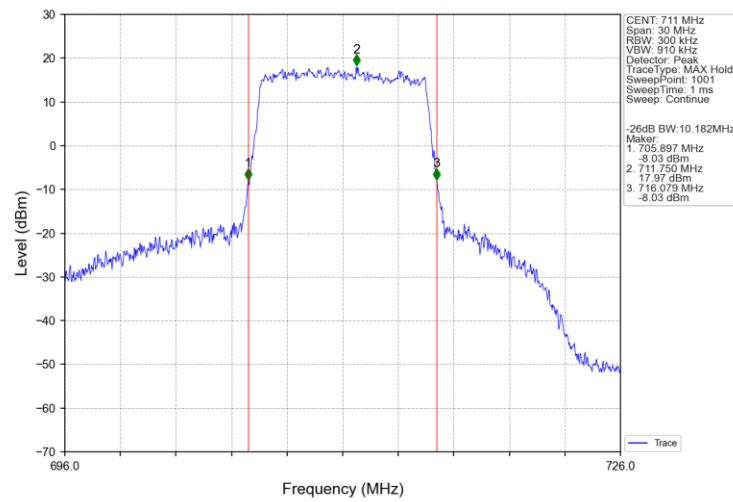
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12 10MHz 16QAM MCH 707.5MHz RB 50 0 NTN



Band12 10MHz 16QAM HCH 711MHz RB 50 0 NTN



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	4.21	<=13	Pass
	707.5	6	0	4.68	<=13	Pass
	715.3	6	0	4.69	<=13	Pass
16QAM	699.7	6	0	5.07	<=13	Pass
	707.5	6	0	5.53	<=13	Pass
	715.3	6	0	5.63	<=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	4.53	<=13	Pass
	707.5	15	0	5.02	<=13	Pass
	714.5	15	0	5.10	<=13	Pass
16QAM	700.5	15	0	5.33	<=13	Pass
	707.5	15	0	5.95	<=13	Pass
	714.5	15	0	5.96	<=13	Pass

5.1.3 B12_5MHz

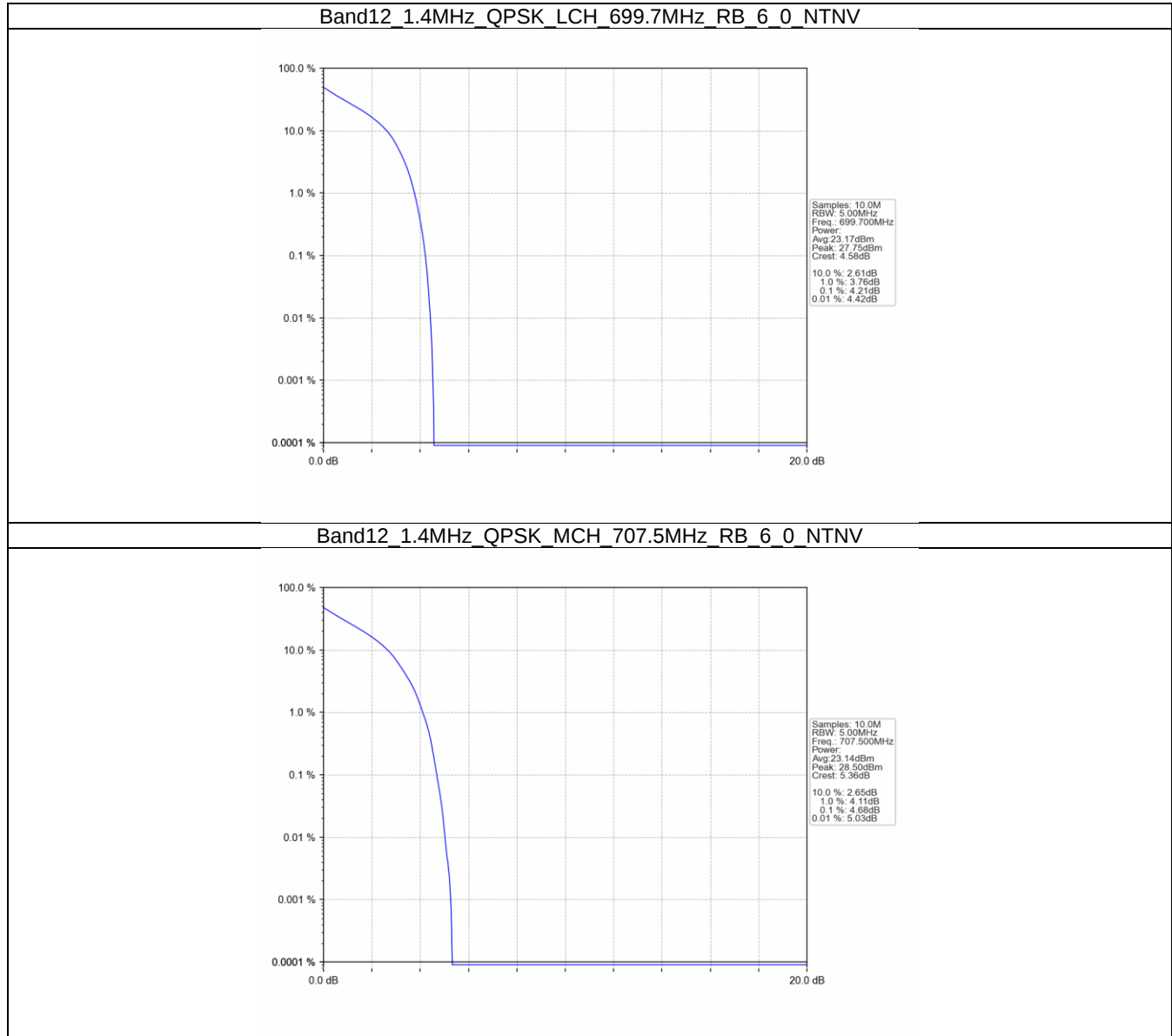
Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.25	<=13	Pass
	707.5	25	0	5.38	<=13	Pass
	713.5	25	0	5.32	<=13	Pass
16QAM	701.5	25	0	5.95	<=13	Pass
	707.5	25	0	6.08	<=13	Pass
	713.5	25	0	6.04	<=13	Pass

5.1.4 B12_10MHz

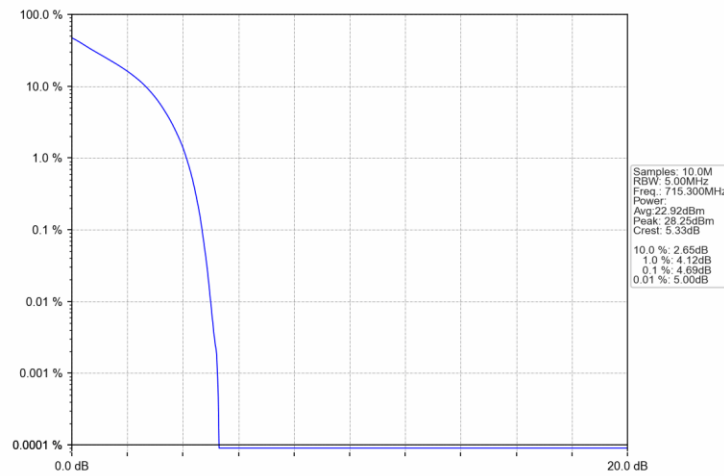
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.34	<=13	Pass
	707.5	50	0	5.31	<=13	Pass
	711	50	0	5.26	<=13	Pass
16QAM	704	50	0	6.07	<=13	Pass
	707.5	50	0	6.10	<=13	Pass
	711	50	0	6.07	<=13	Pass

5.2 Test Graph

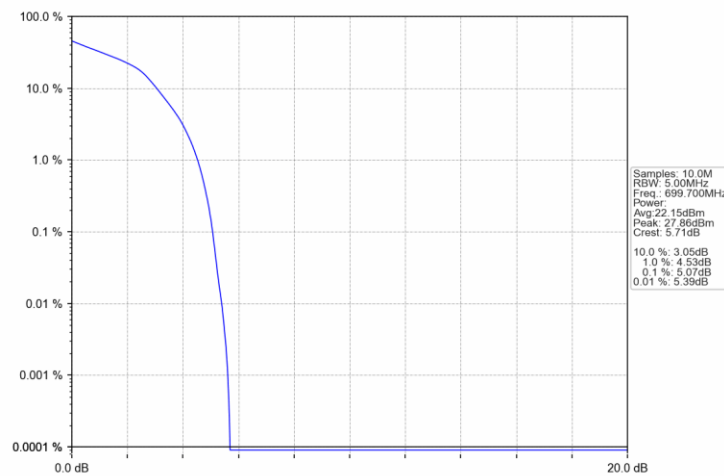
5.2.1 B12_1.4MHz



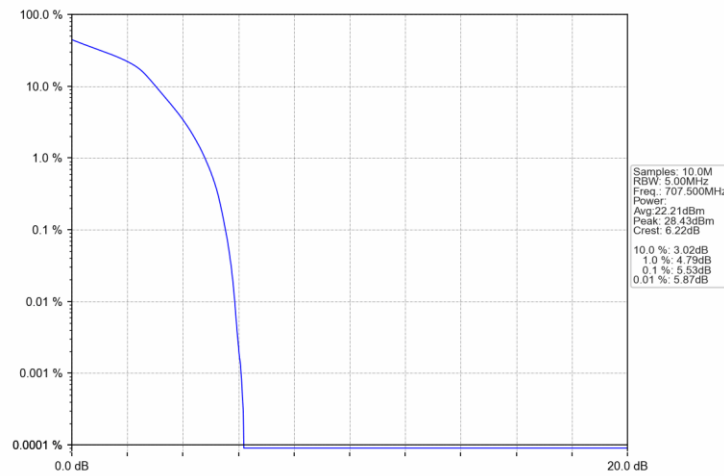
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTNV



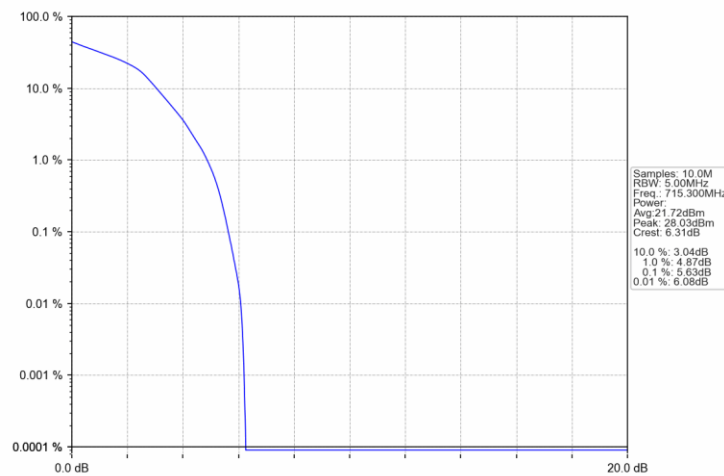
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTNV



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

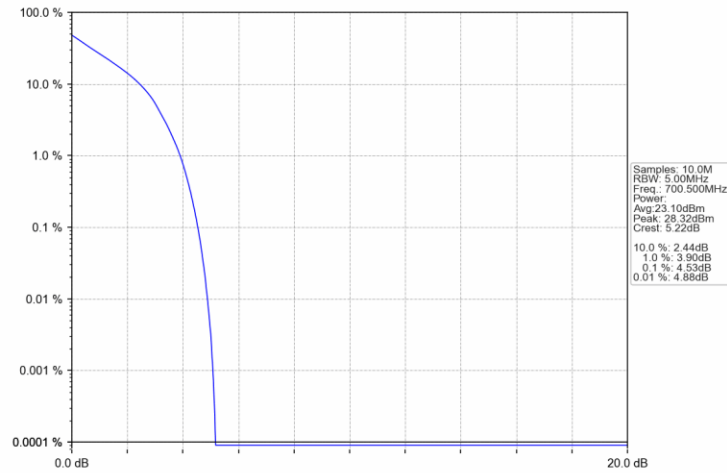


Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



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

