

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B12_1.4MHz_ERP

Band: 12 / Bandwidth: 1.4MHz / NTVN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	699.7	1	0	23.57	-17.81	3.61	<=34.77	Pass
			2	23.55	-17.81	3.59	<=34.77	Pass
			5	23.60	-17.81	3.64	<=34.77	Pass
		3	0	23.66	-17.81	3.70	<=34.77	Pass
			2	23.66	-17.81	3.70	<=34.77	Pass
			3	23.65	-17.81	3.69	<=34.77	Pass
		6	0	22.63	-17.81	2.67	<=34.77	Pass
	707.5	1	0	23.55	-17.81	3.59	<=34.77	Pass
			2	23.58	-17.81	3.62	<=34.77	Pass
			5	23.55	-17.81	3.59	<=34.77	Pass
		3	0	23.59	-17.81	3.63	<=34.77	Pass
			2	23.58	-17.81	3.62	<=34.77	Pass
			3	23.62	-17.81	3.66	<=34.77	Pass
		6	0	22.58	-17.81	2.62	<=34.77	Pass
	715.3	1	0	23.50	-17.81	3.54	<=34.77	Pass
			2	23.53	-17.81	3.57	<=34.77	Pass
			5	23.55	-17.81	3.59	<=34.77	Pass
		3	0	23.56	-17.81	3.60	<=34.77	Pass
			2	23.57	-17.81	3.61	<=34.77	Pass
			3	23.58	-17.81	3.62	<=34.77	Pass
		6	0	22.55	-17.81	2.59	<=34.77	Pass
16QAM	699.7	1	0	22.62	-17.81	2.66	<=34.77	Pass
			2	22.60	-17.81	2.64	<=34.77	Pass
			5	22.68	-17.81	2.72	<=34.77	Pass
		3	0	22.78	-17.81	2.82	<=34.77	Pass
			2	22.82	-17.81	2.86	<=34.77	Pass
			3	22.84	-17.81	2.88	<=34.77	Pass
		6	0	21.61	-17.81	1.65	<=34.77	Pass
	707.5	1	0	22.59	-17.81	2.63	<=34.77	Pass
			2	22.61	-17.81	2.65	<=34.77	Pass
			5	22.65	-17.81	2.69	<=34.77	Pass
		3	0	22.63	-17.81	2.67	<=34.77	Pass
			2	22.58	-17.81	2.62	<=34.77	Pass
			3	22.61	-17.81	2.65	<=34.77	Pass
		6	0	21.48	-17.81	1.52	<=34.77	Pass
	715.3	1	0	22.55	-17.81	2.59	<=34.77	Pass
			2	22.55	-17.81	2.59	<=34.77	Pass
			5	22.70	-17.81	2.74	<=34.77	Pass
		3	0	22.55	-17.81	2.59	<=34.77	Pass
			2	22.57	-17.81	2.61	<=34.77	Pass
			3	22.55	-17.81	2.59	<=34.77	Pass
		6	0	21.46	-17.81	1.50	<=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	23.54	-17.81	3.58	<=34.77	Pass
			7	23.61	-17.81	3.65	<=34.77	Pass
			14	23.58	-17.81	3.62	<=34.77	Pass
		8	0	22.62	-17.81	2.66	<=34.77	Pass
			4	22.62	-17.81	2.66	<=34.77	Pass
			7	22.59	-17.81	2.63	<=34.77	Pass
		15	0	22.60	-17.81	2.64	<=34.77	Pass
	707.5	1	0	23.63	-17.81	3.67	<=34.77	Pass
			7	23.65	-17.81	3.69	<=34.77	Pass
			14	23.60	-17.81	3.64	<=34.77	Pass
		8	0	22.51	-17.81	2.55	<=34.77	Pass
			4	22.56	-17.81	2.60	<=34.77	Pass
			7	22.51	-17.81	2.55	<=34.77	Pass
		15	0	22.51	-17.81	2.55	<=34.77	Pass
	714.5	1	0	23.49	-17.81	3.53	<=34.77	Pass
			7	23.53	-17.81	3.57	<=34.77	Pass
			14	23.56	-17.81	3.60	<=34.77	Pass
		8	0	22.53	-17.81	2.57	<=34.77	Pass
			4	22.48	-17.81	2.52	<=34.77	Pass
			7	22.49	-17.81	2.53	<=34.77	Pass
		15	0	22.53	-17.81	2.57	<=34.77	Pass
16QAM	700.5	1	0	22.75	-17.81	2.79	<=34.77	Pass
			7	22.80	-17.81	2.84	<=34.77	Pass
			14	22.71	-17.81	2.75	<=34.77	Pass
		8	0	21.59	-17.81	1.63	<=34.77	Pass
			4	21.59	-17.81	1.63	<=34.77	Pass
			7	21.56	-17.81	1.60	<=34.77	Pass
		15	0	21.56	-17.81	1.60	<=34.77	Pass
	707.5	1	0	23.08	-17.81	3.12	<=34.77	Pass
			7	23.08	-17.81	3.12	<=34.77	Pass
			14	23.07	-17.81	3.11	<=34.77	Pass
		8	0	21.69	-17.81	1.73	<=34.77	Pass
			4	21.75	-17.81	1.79	<=34.77	Pass
			7	21.72	-17.81	1.76	<=34.77	Pass
		15	0	21.63	-17.81	1.67	<=34.77	Pass
	714.5	1	0	22.55	-17.81	2.59	<=34.77	Pass
			7	22.60	-17.81	2.64	<=34.77	Pass
			14	22.68	-17.81	2.72	<=34.77	Pass
		8	0	21.58	-17.81	1.62	<=34.77	Pass
			4	21.53	-17.81	1.57	<=34.77	Pass
			7	21.55	-17.81	1.59	<=34.77	Pass
		15	0	21.61	-17.81	1.65	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.3 B12_5MHz_ERP

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	23.67	-17.81	3.71	<=34.77	Pass
			13	23.62	-17.81	3.66	<=34.77	Pass
			24	23.65	-17.81	3.69	<=34.77	Pass
		12	0	22.60	-17.81	2.64	<=34.77	Pass
			6	22.58	-17.81	2.62	<=34.77	Pass
			13	22.55	-17.81	2.59	<=34.77	Pass
		25	0	22.55	-17.81	2.59	<=34.77	Pass
	707.5	1	0	23.63	-17.81	3.67	<=34.77	Pass
			13	23.59	-17.81	3.63	<=34.77	Pass
			24	23.66	-17.81	3.70	<=34.77	Pass
		12	0	22.60	-17.81	2.64	<=34.77	Pass
			6	22.58	-17.81	2.62	<=34.77	Pass
			13	22.55	-17.81	2.59	<=34.77	Pass
		25	0	22.58	-17.81	2.62	<=34.77	Pass
	713.5	1	0	23.67	-17.81	3.71	<=34.77	Pass
			13	23.66	-17.81	3.70	<=34.77	Pass
			24	23.79	-17.81	3.83	<=34.77	Pass
		12	0	22.58	-17.81	2.62	<=34.77	Pass
			6	22.51	-17.81	2.55	<=34.77	Pass
			13	22.45	-17.81	2.49	<=34.77	Pass
		25	0	22.51	-17.81	2.55	<=34.77	Pass
16QAM	701.5	1	0	22.76	-17.81	2.80	<=34.77	Pass
			13	22.68	-17.81	2.72	<=34.77	Pass
			24	22.74	-17.81	2.78	<=34.77	Pass
		12	0	21.54	-17.81	1.58	<=34.77	Pass
			6	21.56	-17.81	1.60	<=34.77	Pass
			13	21.52	-17.81	1.56	<=34.77	Pass
		25	0	21.62	-17.81	1.66	<=34.77	Pass
	707.5	1	0	22.88	-17.81	2.92	<=34.77	Pass
			13	22.86	-17.81	2.90	<=34.77	Pass
			24	22.83	-17.81	2.87	<=34.77	Pass
		12	0	21.61	-17.81	1.65	<=34.77	Pass
			6	21.61	-17.81	1.65	<=34.77	Pass
			13	21.57	-17.81	1.61	<=34.77	Pass
		25	0	21.60	-17.81	1.64	<=34.77	Pass
	713.5	1	0	22.41	-17.81	2.45	<=34.77	Pass
			13	22.38	-17.81	2.42	<=34.77	Pass
			24	22.52	-17.81	2.56	<=34.77	Pass
		12	0	21.60	-17.81	1.64	<=34.77	Pass
			6	21.53	-17.81	1.57	<=34.77	Pass
			13	21.43	-17.81	1.47	<=34.77	Pass
		25	0	21.55	-17.81	1.59	<=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	23.54	-17.81	3.58	<=34.77	Pass
			25	23.58	-17.81	3.62	<=34.77	Pass
			49	23.62	-17.81	3.66	<=34.77	Pass
		25	0	22.57	-17.81	2.61	<=34.77	Pass
			13	22.57	-17.81	2.61	<=34.77	Pass
			25	22.62	-17.81	2.66	<=34.77	Pass
		50	0	22.60	-17.81	2.64	<=34.77	Pass
	707.5	1	0	23.52	-17.81	3.56	<=34.77	Pass
			25	23.57	-17.81	3.61	<=34.77	Pass
			49	23.52	-17.81	3.56	<=34.77	Pass
		25	0	22.58	-17.81	2.62	<=34.77	Pass
			13	22.55	-17.81	2.59	<=34.77	Pass
			25	22.60	-17.81	2.64	<=34.77	Pass
		50	0	22.61	-17.81	2.65	<=34.77	Pass
	711	1	0	23.58	-17.81	3.62	<=34.77	Pass
			25	23.59	-17.81	3.63	<=34.77	Pass
			49	23.60	-17.81	3.64	<=34.77	Pass
		25	0	22.52	-17.81	2.56	<=34.77	Pass
			13	22.55	-17.81	2.59	<=34.77	Pass
			25	22.39	-17.81	2.43	<=34.77	Pass
		50	0	22.48	-17.81	2.52	<=34.77	Pass
16QAM	704	1	0	22.53	-17.81	2.57	<=34.77	Pass
			25	22.56	-17.81	2.60	<=34.77	Pass
			49	22.65	-17.81	2.69	<=34.77	Pass
		25	0	21.68	-17.81	1.72	<=34.77	Pass
			13	21.68	-17.81	1.72	<=34.77	Pass
			25	21.70	-17.81	1.74	<=34.77	Pass
		50	0	21.61	-17.81	1.65	<=34.77	Pass
	707.5	1	0	22.68	-17.81	2.72	<=34.77	Pass
			25	22.74	-17.81	2.78	<=34.77	Pass
			49	22.70	-17.81	2.74	<=34.77	Pass
		25	0	21.60	-17.81	1.64	<=34.77	Pass
			13	21.60	-17.81	1.64	<=34.77	Pass
			25	21.61	-17.81	1.65	<=34.77	Pass
		50	0	21.60	-17.81	1.64	<=34.77	Pass
	711	1	0	23.05	-17.81	3.09	<=34.77	Pass
			25	23.05	-17.81	3.09	<=34.77	Pass
			49	23.04	-17.81	3.08	<=34.77	Pass
		25	0	21.57	-17.81	1.61	<=34.77	Pass
			13	21.59	-17.81	1.63	<=34.77	Pass
			25	21.45	-17.81	1.49	<=34.77	Pass
		50	0	21.48	-17.81	1.52	<=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	-2.260	-0.0032	-2.5 to 2.5	Pass
					3.85	-0.372	-0.0005	-2.5 to 2.5	Pass
					4.43	0.443	0.0006	-2.5 to 2.5	Pass
				-30	3.85	-2.561	-0.0037	-2.5 to 2.5	Pass
				-20	3.85	-0.257	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	-2.389	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-0.243	-0.0003	-2.5 to 2.5	Pass
				10	3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
				30	3.85	-2.289	-0.0033	-2.5 to 2.5	Pass
				40	3.85	-1.388	-0.0020	-2.5 to 2.5	Pass
				50	3.85	-0.286	-0.0004	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-2.289	-0.0032	-2.5 to 2.5	Pass
					3.85	-2.203	-0.0031	-2.5 to 2.5	Pass
					4.43	2.189	0.0031	-2.5 to 2.5	Pass
				-30	3.85	-0.544	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	0.715	0.0010	-2.5 to 2.5	Pass
				-10	3.85	0.544	0.0008	-2.5 to 2.5	Pass
				0	3.85	-1.259	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-0.343	-0.0005	-2.5 to 2.5	Pass
				30	3.85	-0.615	-0.0009	-2.5 to 2.5	Pass
				40	3.85	2.131	0.0030	-2.5 to 2.5	Pass
				50	3.85	3.290	0.0047	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	0.329	0.0005	-2.5 to 2.5	Pass
					3.85	0.858	0.0012	-2.5 to 2.5	Pass
					4.43	-1.073	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	-1.631	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	-0.901	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	2.704	0.0038	-2.5 to 2.5	Pass
				0	3.85	0.901	0.0013	-2.5 to 2.5	Pass
				10	3.85	2.046	0.0029	-2.5 to 2.5	Pass
				30	3.85	2.904	0.0041	-2.5 to 2.5	Pass
				40	3.85	-0.772	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	-1.545	-0.0022	-2.5 to 2.5	Pass
					3.85	-0.486	-0.0007	-2.5 to 2.5	Pass
					4.43	1.388	0.0020	-2.5 to 2.5	Pass
				-30	3.85	-2.575	-0.0037	-2.5 to 2.5	Pass
				-20	3.85	0.644	0.0009	-2.5 to 2.5	Pass
				-10	3.85	-2.189	-0.0031	-2.5 to 2.5	Pass
				0	3.85	-1.144	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-0.644	-0.0009	-2.5 to 2.5	Pass
				30	3.85	0.272	0.0004	-2.5 to 2.5	Pass
				40	3.85	2.046	0.0029	-2.5 to 2.5	Pass
				50	3.85	-2.475	-0.0035	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	1.073	0.0015	-2.5 to 2.5	Pass
					3.85	0.472	0.0007	-2.5 to 2.5	Pass
					4.43	-1.874	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	3.963	0.0056	-2.5 to 2.5	Pass
				-20	3.85	0.200	0.0003	-2.5 to 2.5	Pass

				-10	3.85	-0.215	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-0.944	-0.0013	-2.5 to 2.5	Pass
				10	3.85	0.672	0.0009	-2.5 to 2.5	Pass
				30	3.85	-1.445	-0.0020	-2.5 to 2.5	Pass
				40	3.85	-0.930	-0.0013	-2.5 to 2.5	Pass
				50	3.85	0.544	0.0008	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	4.148	0.0058	-2.5 to 2.5	Pass
					3.85	-0.801	-0.0011	-2.5 to 2.5	Pass
					4.43	2.017	0.0028	-2.5 to 2.5	Pass
				-30	3.85	-0.587	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	0.272	0.0004	-2.5 to 2.5	Pass
				-10	3.85	-4.249	-0.0059	-2.5 to 2.5	Pass
				0	3.85	2.446	0.0034	-2.5 to 2.5	Pass
				10	3.85	0.143	0.0002	-2.5 to 2.5	Pass
				30	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				40	3.85	-0.887	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-2.332	-0.0033	-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	-4.520	-0.0065	-2.5 to 2.5	Pass
					3.85	-1.802	-0.0026	-2.5 to 2.5	Pass
					4.43	2.232	0.0032	-2.5 to 2.5	Pass
				-30	3.85	-2.375	-0.0034	-2.5 to 2.5	Pass
				-20	3.85	-0.129	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	0.787	0.0011	-2.5 to 2.5	Pass
				0	3.85	-1.130	-0.0016	-2.5 to 2.5	Pass
				10	3.85	7.882	0.0113	-2.5 to 2.5	Pass
				30	3.85	-0.830	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-1.087	-0.0016	-2.5 to 2.5	Pass
				50	3.85	1.330	0.0019	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	0.687	0.0010	-2.5 to 2.5	Pass
					3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
					4.43	1.230	0.0017	-2.5 to 2.5	Pass
				-30	3.85	-1.030	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	1.788	0.0025	-2.5 to 2.5	Pass
				0	3.85	0.601	0.0008	-2.5 to 2.5	Pass
				10	3.85	0.973	0.0014	-2.5 to 2.5	Pass
				30	3.85	-1.473	-0.0021	-2.5 to 2.5	Pass
				40	3.85	3.476	0.0049	-2.5 to 2.5	Pass
				50	3.85	1.745	0.0025	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	0.415	0.0006	-2.5 to 2.5	Pass
					3.85	0.029	0.0000	-2.5 to 2.5	Pass
					4.43	0.415	0.0006	-2.5 to 2.5	Pass
				-30	3.85	1.316	0.0018	-2.5 to 2.5	Pass
				-20	3.85	-1.831	-0.0026	-2.5 to 2.5	Pass
				-10	3.85	-2.403	-0.0034	-2.5 to 2.5	Pass
				0	3.85	0.672	0.0009	-2.5 to 2.5	Pass
				10	3.85	0.787	0.0011	-2.5 to 2.5	Pass
				30	3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
				40	3.85	1.688	0.0024	-2.5 to 2.5	Pass
				50	3.85	-2.160	-0.0030	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	-2.618	-0.0037	-2.5 to 2.5	Pass
					3.85	-1.073	-0.0015	-2.5 to 2.5	Pass

					4.43	-0.172	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	1.917	0.0027	-2.5 to 2.5	Pass
				-20	3.85	0.701	0.0010	-2.5 to 2.5	Pass
				-10	3.85	-5.507	-0.0079	-2.5 to 2.5	Pass
				0	3.85	-0.687	-0.0010	-2.5 to 2.5	Pass
				10	3.85	1.302	0.0019	-2.5 to 2.5	Pass
				30	3.85	-0.544	-0.0008	-2.5 to 2.5	Pass
				40	3.85	-1.588	-0.0023	-2.5 to 2.5	Pass
				50	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	0.744	0.0011	-2.5 to 2.5	Pass
					3.85	2.303	0.0033	-2.5 to 2.5	Pass
					4.43	0.758	0.0011	-2.5 to 2.5	Pass
				-30	3.85	1.731	0.0024	-2.5 to 2.5	Pass
				-20	3.85	-0.901	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-0.844	-0.0012	-2.5 to 2.5	Pass
				0	3.85	0.930	0.0013	-2.5 to 2.5	Pass
				10	3.85	0.615	0.0009	-2.5 to 2.5	Pass
				30	3.85	0.129	0.0002	-2.5 to 2.5	Pass
				40	3.85	-2.332	-0.0033	-2.5 to 2.5	Pass
				50	3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	1.860	0.0026	-2.5 to 2.5	Pass
					3.85	-3.448	-0.0048	-2.5 to 2.5	Pass
					4.43	-1.531	-0.0021	-2.5 to 2.5	Pass
				-30	3.85	-1.616	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	-2.232	-0.0031	-2.5 to 2.5	Pass
				-10	3.85	-0.386	-0.0005	-2.5 to 2.5	Pass
				0	3.85	-0.801	-0.0011	-2.5 to 2.5	Pass
				10	3.85	1.259	0.0018	-2.5 to 2.5	Pass
				30	3.85	-1.988	-0.0028	-2.5 to 2.5	Pass
				40	3.85	-1.173	-0.0016	-2.5 to 2.5	Pass
				50	3.85	-2.317	-0.0032	-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	0.100	0.0001	-2.5 to 2.5	Pass
					3.85	-2.203	-0.0031	-2.5 to 2.5	Pass
					4.43	-3.190	-0.0045	-2.5 to 2.5	Pass
				-30	3.85	-0.844	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-1.001	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	-0.930	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-3.719	-0.0053	-2.5 to 2.5	Pass
				10	3.85	-0.815	-0.0012	-2.5 to 2.5	Pass
				30	3.85	-2.375	-0.0034	-2.5 to 2.5	Pass
				40	3.85	-1.988	-0.0028	-2.5 to 2.5	Pass
				50	3.85	-1.574	-0.0022	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-2.875	-0.0041	-2.5 to 2.5	Pass
					3.85	-2.961	-0.0042	-2.5 to 2.5	Pass
					4.43	-0.715	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	0.515	0.0007	-2.5 to 2.5	Pass
				-20	3.85	0.887	0.0013	-2.5 to 2.5	Pass
				-10	3.85	0.858	0.0012	-2.5 to 2.5	Pass
				0	3.85	0.429	0.0006	-2.5 to 2.5	Pass
				10	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
				30	3.85	0.272	0.0004	-2.5 to 2.5	Pass
				40	3.85	-1.459	-0.0021	-2.5 to 2.5	Pass

	713.5	25	0	50	3.85	0.486	0.0007	-2.5 to 2.5	Pass
				20	3.27	-0.644	-0.0009	-2.5 to 2.5	Pass
					3.85	-2.575	-0.0036	-2.5 to 2.5	Pass
					4.43	-1.302	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-1.845	-0.0026	-2.5 to 2.5	Pass
				-20	3.85	-3.977	-0.0056	-2.5 to 2.5	Pass
				-10	3.85	0.057	0.0001	-2.5 to 2.5	Pass
				0	3.85	-3.347	-0.0047	-2.5 to 2.5	Pass
				10	3.85	0.358	0.0005	-2.5 to 2.5	Pass
				30	3.85	0.272	0.0004	-2.5 to 2.5	Pass
				40	3.85	-4.420	-0.0062	-2.5 to 2.5	Pass
				50	3.85	-3.490	-0.0049	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-2.403	-0.0034	-2.5 to 2.5	Pass
					3.85	-1.659	-0.0024	-2.5 to 2.5	Pass
					4.43	-1.073	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	-1.974	-0.0028	-2.5 to 2.5	Pass
				-20	3.85	-1.116	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-2.832	-0.0040	-2.5 to 2.5	Pass
				0	3.85	-1.988	-0.0028	-2.5 to 2.5	Pass
				10	3.85	-1.259	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-3.104	-0.0044	-2.5 to 2.5	Pass
				50	3.85	0.644	0.0009	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-1.745	-0.0025	-2.5 to 2.5	Pass
					3.85	0.572	0.0008	-2.5 to 2.5	Pass
					4.43	2.933	0.0041	-2.5 to 2.5	Pass
				-30	3.85	-0.544	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-0.944	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-1.688	-0.0024	-2.5 to 2.5	Pass
				0	3.85	2.189	0.0031	-2.5 to 2.5	Pass
				10	3.85	1.187	0.0017	-2.5 to 2.5	Pass
				30	3.85	0.544	0.0008	-2.5 to 2.5	Pass
				40	3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
				50	3.85	-1.044	-0.0015	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-4.106	-0.0058	-2.5 to 2.5	Pass
					3.85	-2.990	-0.0042	-2.5 to 2.5	Pass
					4.43	-0.715	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	0.629	0.0009	-2.5 to 2.5	Pass
				-20	3.85	-1.416	-0.0020	-2.5 to 2.5	Pass
				-10	3.85	-1.731	-0.0024	-2.5 to 2.5	Pass
				0	3.85	-2.046	-0.0029	-2.5 to 2.5	Pass
				10	3.85	-1.674	-0.0023	-2.5 to 2.5	Pass
				30	3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
				40	3.85	-1.531	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-2.346	-0.0033	-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	-2.704	-0.0038	-2.5 to 2.5	Pass
					3.85	0.057	0.0001	-2.5 to 2.5	Pass
					4.43	0.386	0.0005	-2.5 to 2.5	Pass
				-30	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	0.601	0.0009	-2.5 to 2.5	Pass
				-10	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				0	3.85	-0.615	-0.0009	-2.5 to 2.5	Pass

				10	3.85	-0.815	-0.0012	-2.5 to 2.5	Pass
				30	3.85	-0.057	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.801	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-1.974	-0.0028	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-2.904	-0.0041	-2.5 to 2.5	Pass
					3.85	-1.273	-0.0018	-2.5 to 2.5	Pass
					4.43	-0.172	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	-1.545	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	-2.961	-0.0042	-2.5 to 2.5	Pass
				-10	3.85	-2.203	-0.0031	-2.5 to 2.5	Pass
				0	3.85	-0.887	-0.0013	-2.5 to 2.5	Pass
				10	3.85	0.129	0.0002	-2.5 to 2.5	Pass
				30	3.85	-1.731	-0.0024	-2.5 to 2.5	Pass
				40	3.85	-2.747	-0.0039	-2.5 to 2.5	Pass
				50	3.85	-0.744	-0.0011	-2.5 to 2.5	Pass
				20	3.27	0.043	0.0001	-2.5 to 2.5	Pass
					3.85	-0.787	-0.0011	-2.5 to 2.5	Pass
					4.43	0.243	0.0003	-2.5 to 2.5	Pass
				-30	3.85	-0.043	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	-1.531	-0.0022	-2.5 to 2.5	Pass
				-10	3.85	2.332	0.0033	-2.5 to 2.5	Pass
				0	3.85	-0.772	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-0.787	-0.0011	-2.5 to 2.5	Pass
				30	3.85	-0.801	-0.0011	-2.5 to 2.5	Pass
				40	3.85	0.615	0.0009	-2.5 to 2.5	Pass
				50	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
16QAM	704	50	0	20	3.27	-1.688	-0.0024	-2.5 to 2.5	Pass
					3.85	-1.802	-0.0026	-2.5 to 2.5	Pass
					4.43	-1.130	-0.0016	-2.5 to 2.5	Pass
				-30	3.85	-3.047	-0.0043	-2.5 to 2.5	Pass
				-20	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				-10	3.85	-1.788	-0.0025	-2.5 to 2.5	Pass
				0	3.85	1.230	0.0017	-2.5 to 2.5	Pass
				10	3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
				30	3.85	0.215	0.0003	-2.5 to 2.5	Pass
				40	3.85	-1.044	-0.0015	-2.5 to 2.5	Pass
				50	3.85	-0.243	-0.0003	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-1.388	-0.0020	-2.5 to 2.5	Pass
					3.85	-1.817	-0.0026	-2.5 to 2.5	Pass
					4.43	-2.360	-0.0033	-2.5 to 2.5	Pass
				-30	3.85	-2.661	-0.0038	-2.5 to 2.5	Pass
				-20	3.85	-2.933	-0.0041	-2.5 to 2.5	Pass
				-10	3.85	-3.562	-0.0050	-2.5 to 2.5	Pass
				0	3.85	-2.317	-0.0033	-2.5 to 2.5	Pass
				10	3.85	-2.432	-0.0034	-2.5 to 2.5	Pass
				30	3.85	-2.933	-0.0041	-2.5 to 2.5	Pass
				40	3.85	-0.043	-0.0001	-2.5 to 2.5	Pass
				50	3.85	-2.561	-0.0036	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-0.358	-0.0005	-2.5 to 2.5	Pass
					3.85	0.086	0.0001	-2.5 to 2.5	Pass
					4.43	1.717	0.0024	-2.5 to 2.5	Pass
				-30	3.85	-1.373	-0.0019	-2.5 to 2.5	Pass
				-20	3.85	-0.544	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	-1.988	-0.0028	-2.5 to 2.5	Pass
				0	3.85	0.558	0.0008	-2.5 to 2.5	Pass
				10	3.85	0.057	0.0001	-2.5 to 2.5	Pass
				30	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
				40	3.85	-1.144	-0.0016	-2.5 to 2.5	Pass
				50	3.85	1.216	0.0017	-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

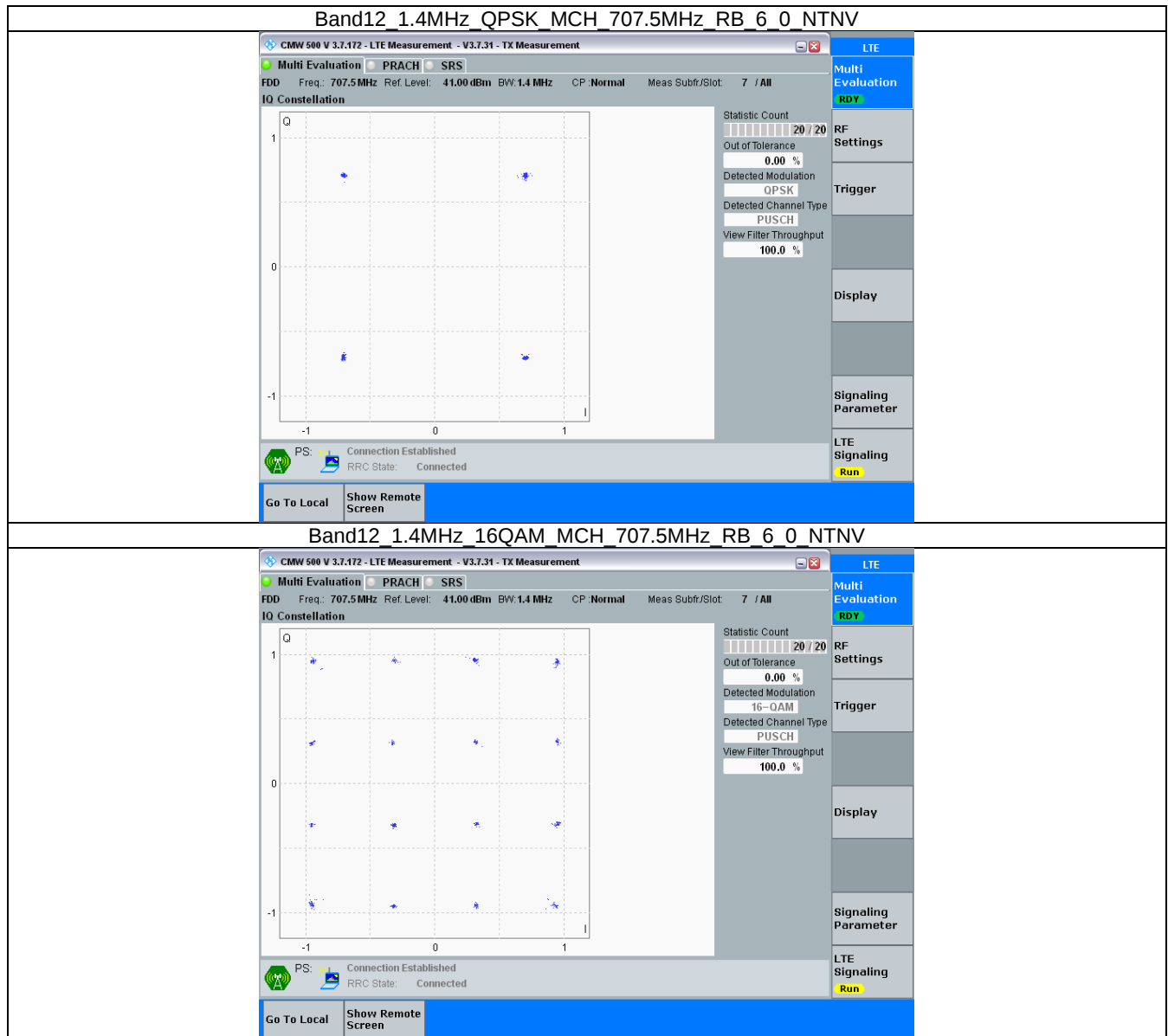
Band: 12 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

3.1.4 B12_10MHz

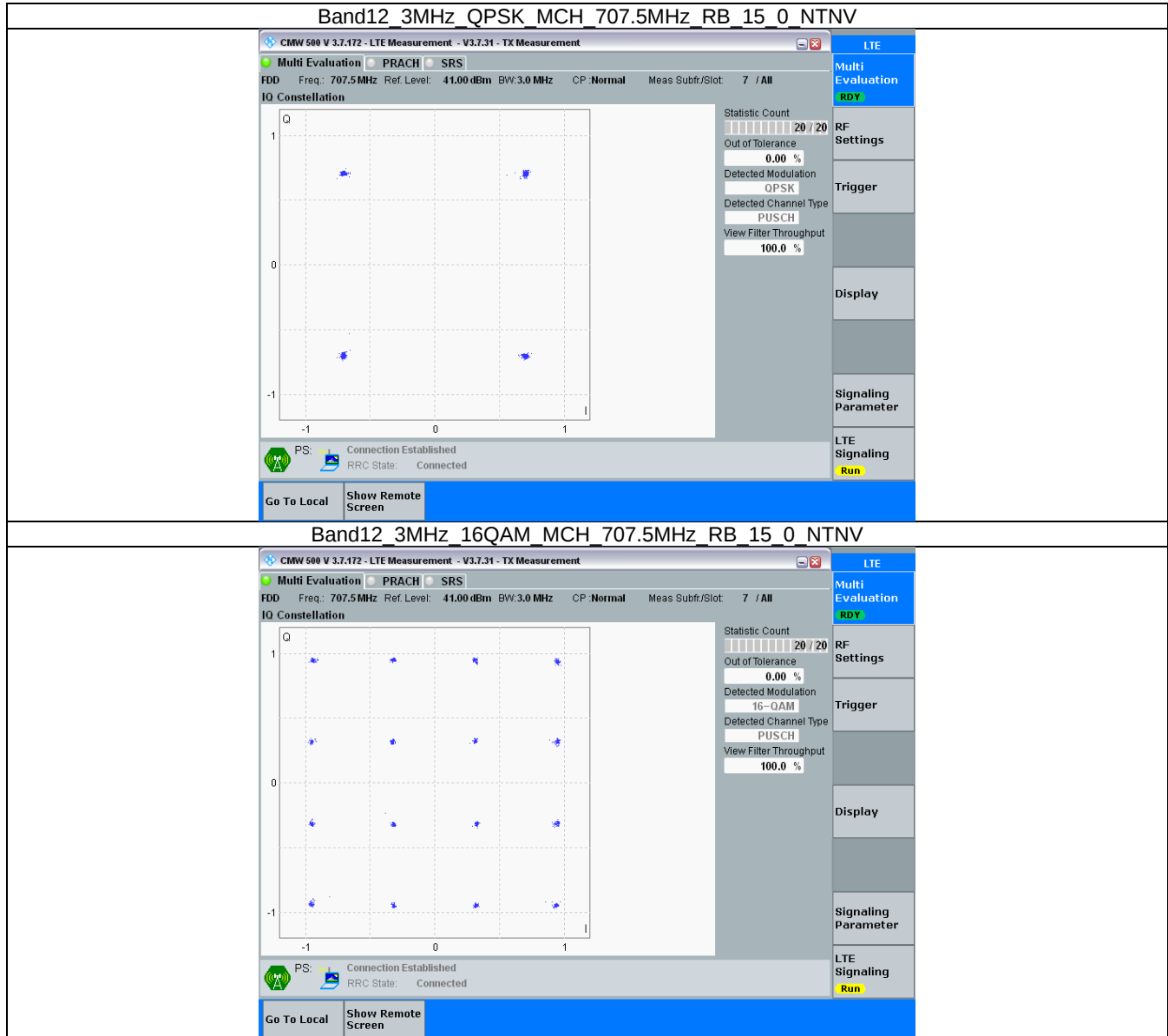
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

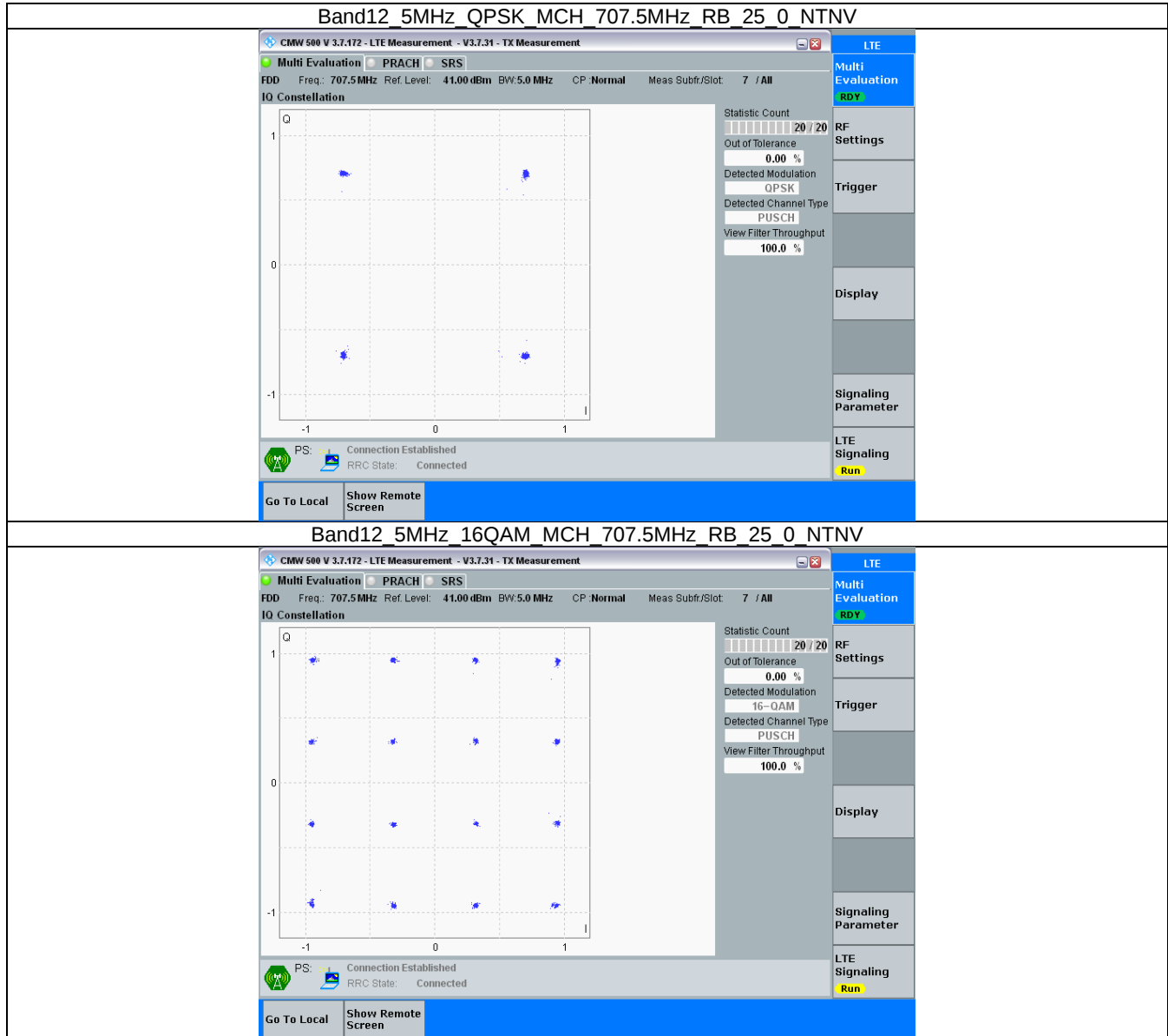
3.2.1 B12_1.4MHz



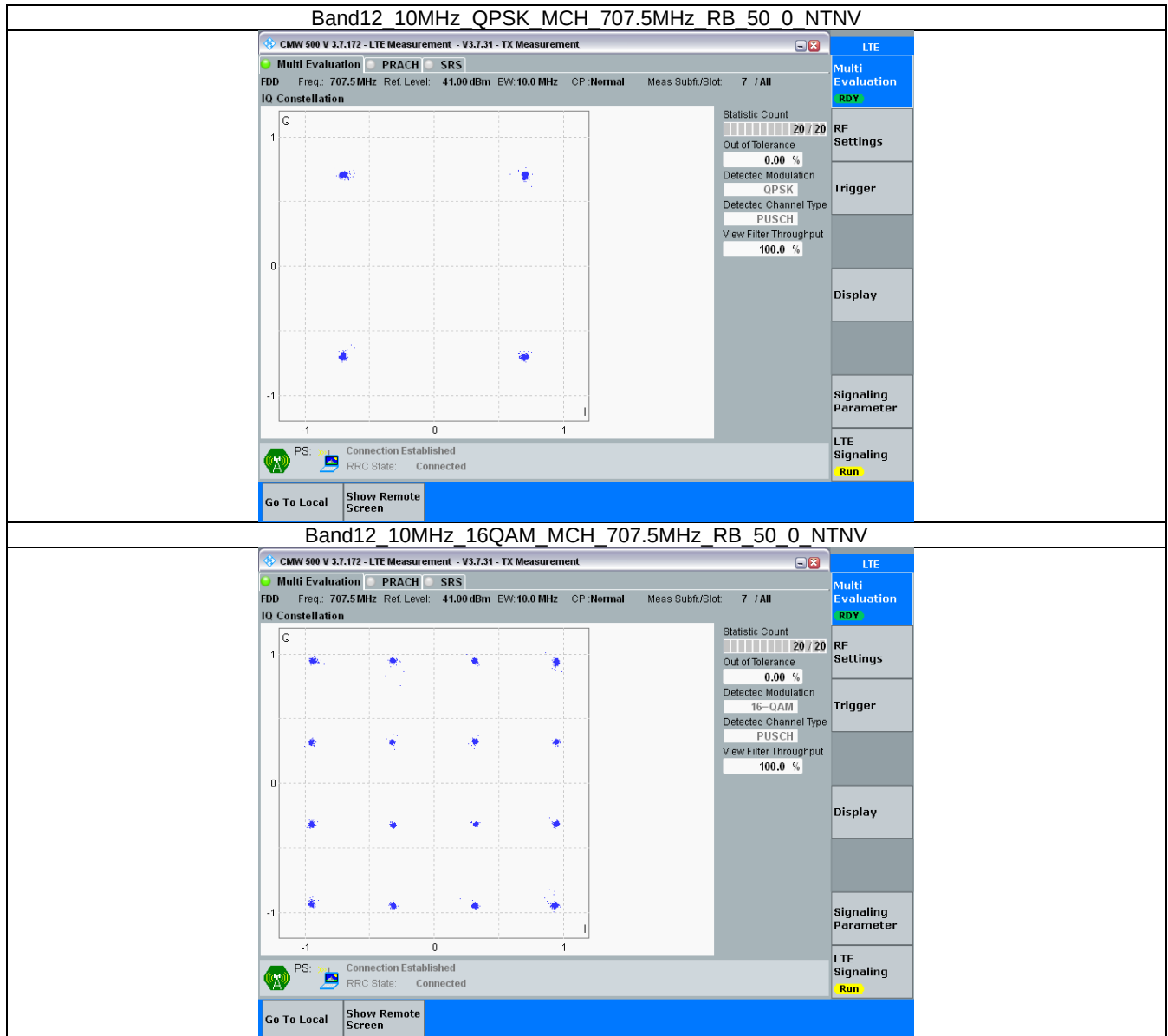
3.2.2 B12_3MHz



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	1.107	/	Pass
		707.5	6	0	1.108	/	Pass
		715.3	6	0	1.113	/	Pass
	16QAM	699.7	6	0	1.115	/	Pass
		707.5	6	0	1.111	/	Pass
		715.3	6	0	1.110	/	Pass
3	QPSK	700.5	15	0	2.732	/	Pass
		707.5	15	0	2.744	/	Pass
		714.5	15	0	2.723	/	Pass
	16QAM	700.5	15	0	2.726	/	Pass
		707.5	15	0	2.727	/	Pass
		714.5	15	0	2.731	/	Pass
5	QPSK	701.5	25	0	4.527	/	Pass
		707.5	25	0	4.558	/	Pass
		713.5	25	0	4.530	/	Pass
	16QAM	701.5	25	0	4.543	/	Pass
		707.5	25	0	4.534	/	Pass
		713.5	25	0	4.534	/	Pass
10	QPSK	704	50	0	9.072	/	Pass
		707.5	50	0	9.060	/	Pass
		711	50	0	9.015	/	Pass
	16QAM	704	50	0	9.055	/	Pass
		707.5	50	0	9.047	/	Pass
		711	50	0	9.044	/	Pass

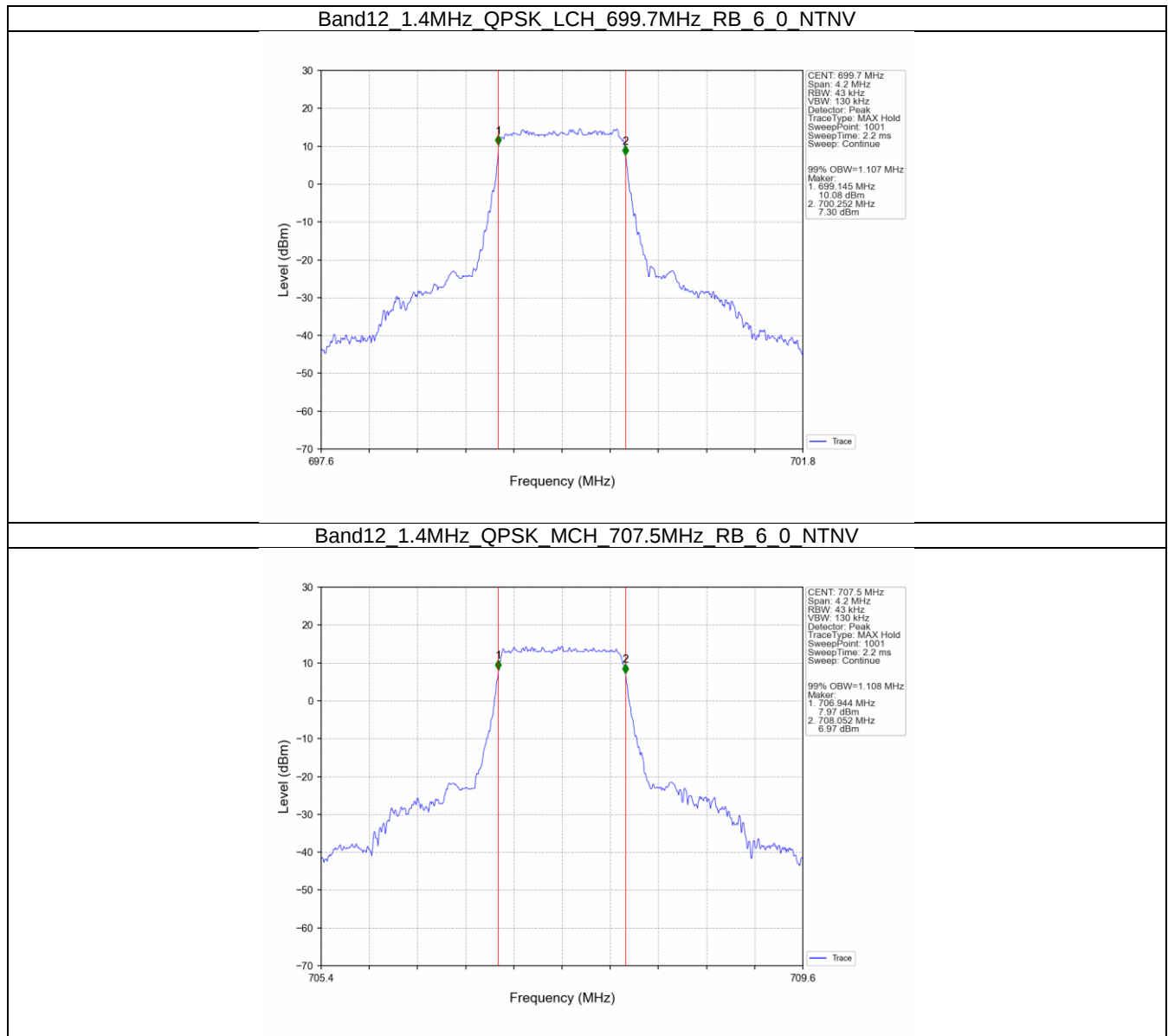
4.1.2 Band12_XDB

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	1.306	/	Pass
		707.5	6	0	1.326	/	Pass
		715.3	6	0	1.338	/	Pass
	16QAM	699.7	6	0	1.321	/	Pass
		707.5	6	0	1.295	/	Pass
		715.3	6	0	1.302	/	Pass
3	QPSK	700.5	15	0	3.010	/	Pass
		707.5	15	0	3.004	/	Pass
		714.5	15	0	3.021	/	Pass
	16QAM	700.5	15	0	3.034	/	Pass
		707.5	15	0	3.026	/	Pass
		714.5	15	0	3.039	/	Pass
5	QPSK	701.5	25	0	5.018	/	Pass
		707.5	25	0	5.036	/	Pass
		713.5	25	0	5.011	/	Pass

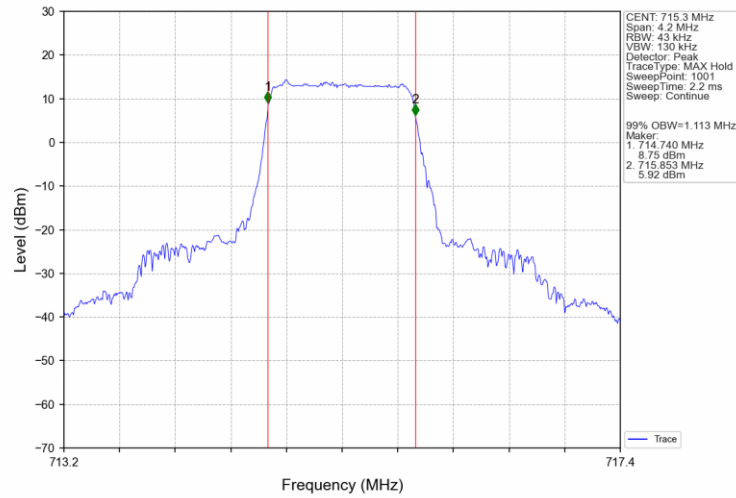
10	16QAM	701.5	25	0	5.040	/	Pass
		707.5	25	0	5.025	/	Pass
		713.5	25	0	5.055	/	Pass
	QPSK	704	50	0	9.896	/	Pass
		707.5	50	0	9.961	/	Pass
		711	50	0	10.037	/	Pass
	16QAM	704	50	0	9.923	/	Pass
		707.5	50	0	9.982	/	Pass
		711	50	0	9.877	/	Pass

4.2 Test Graph

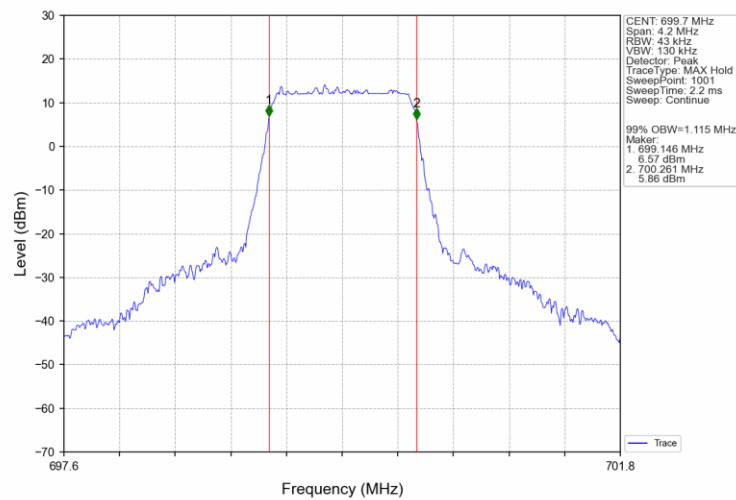
4.2.1 Band12_OBW



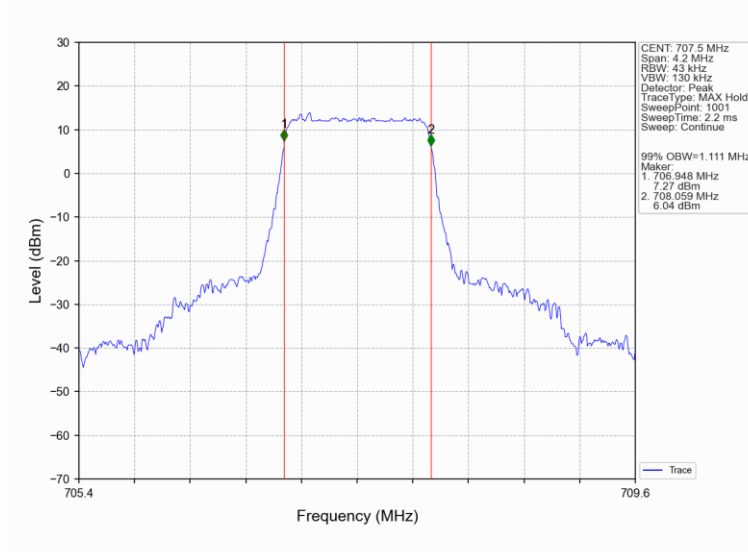
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTV



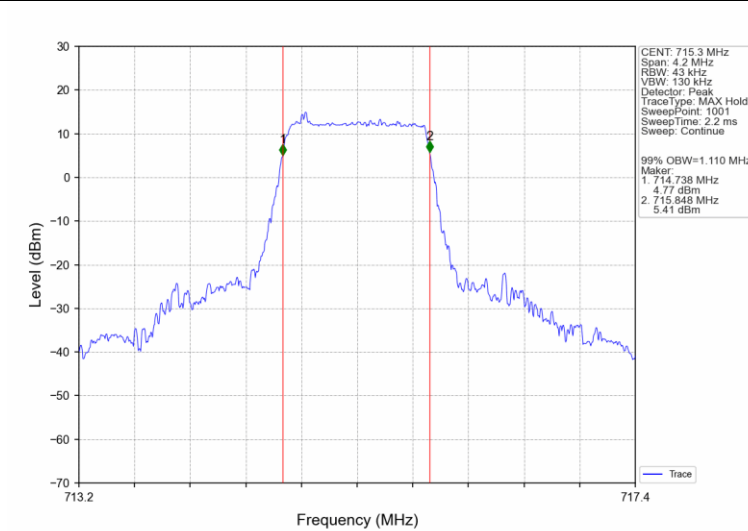
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTV



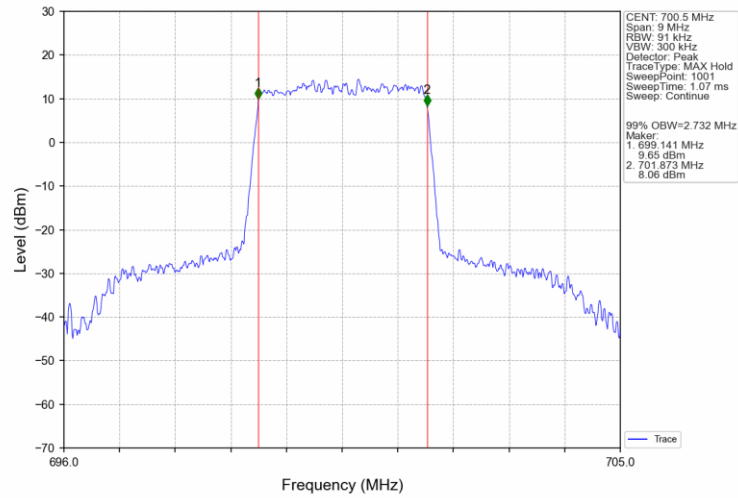
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTN



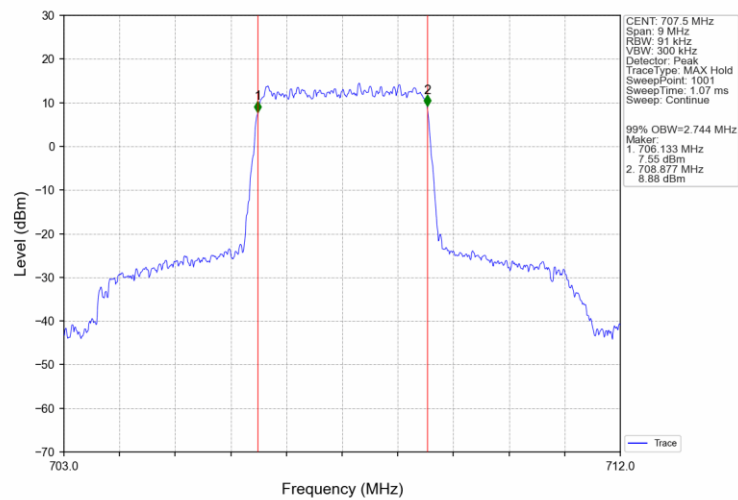
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTN



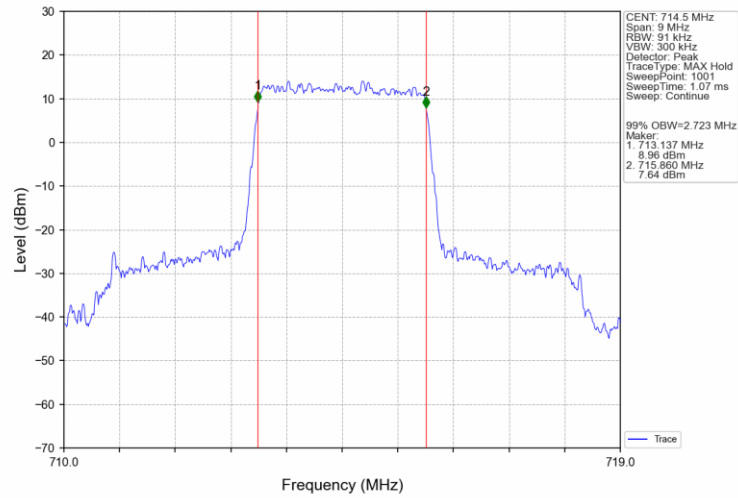
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



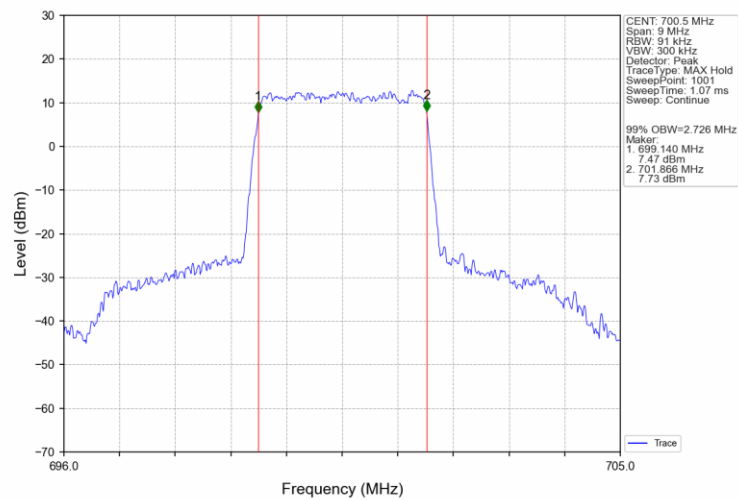
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



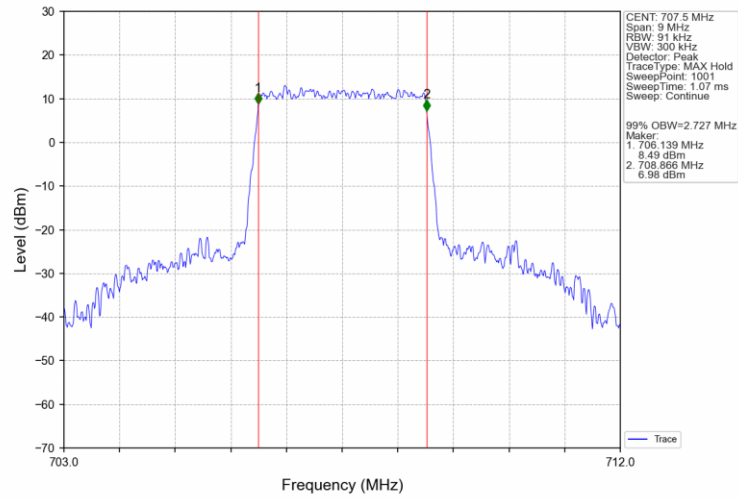
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



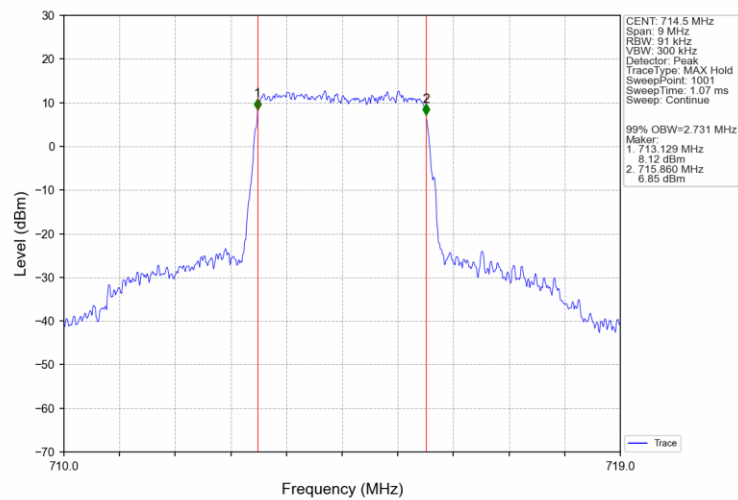
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



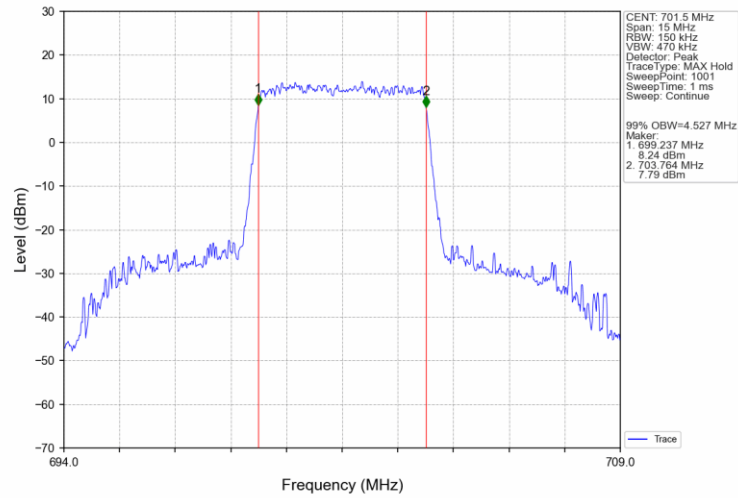
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



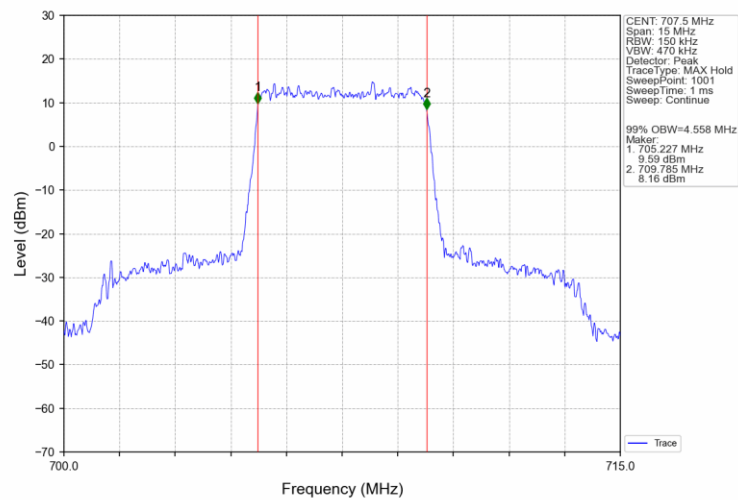
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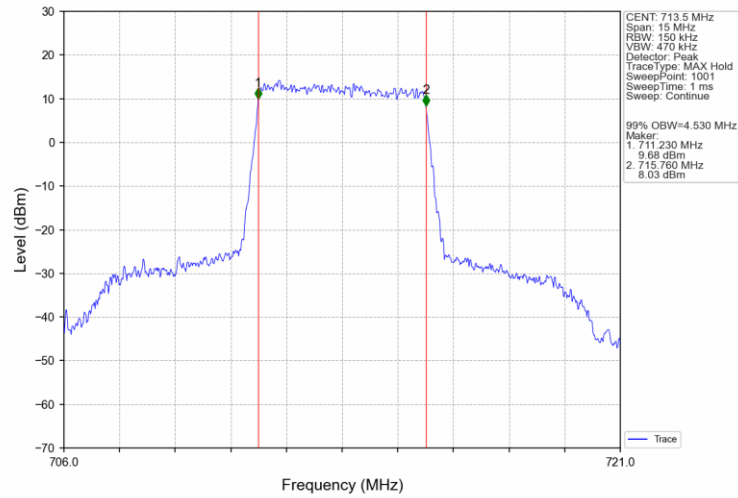
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



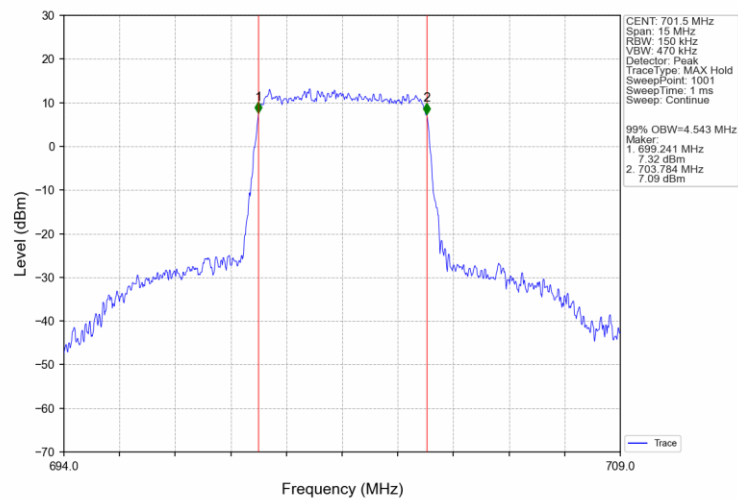
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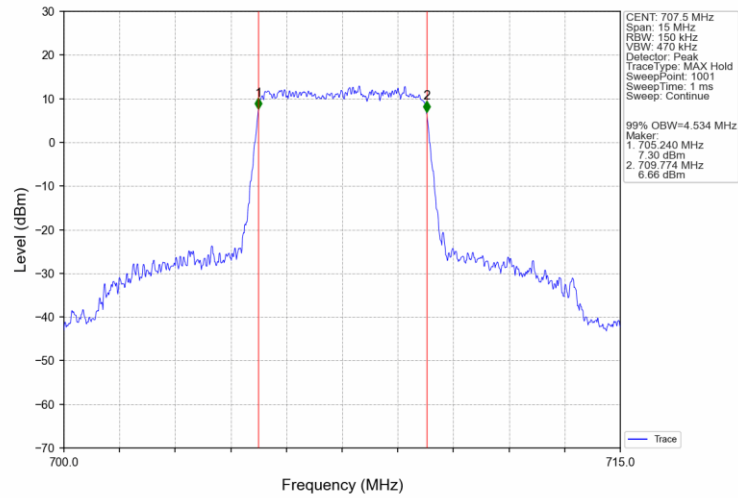
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



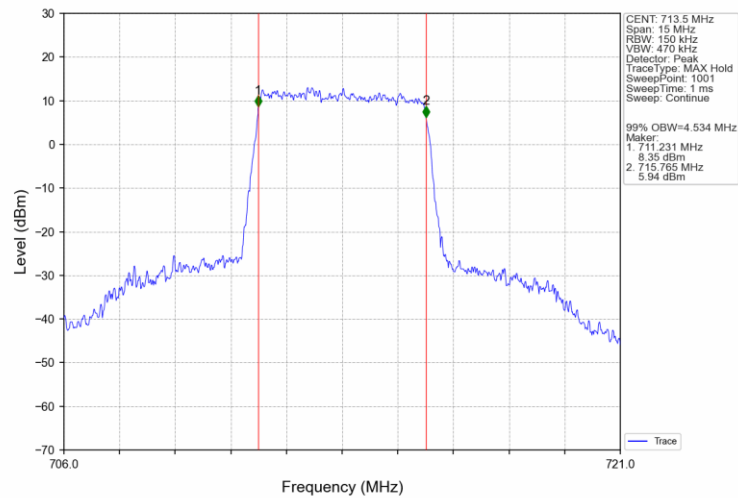
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



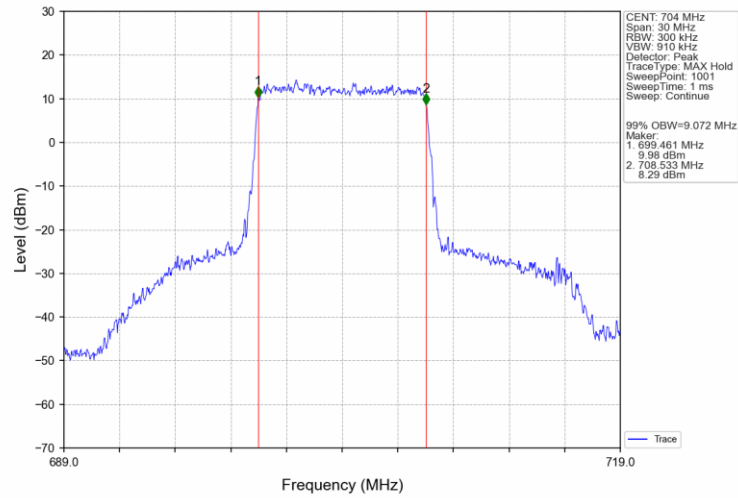
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



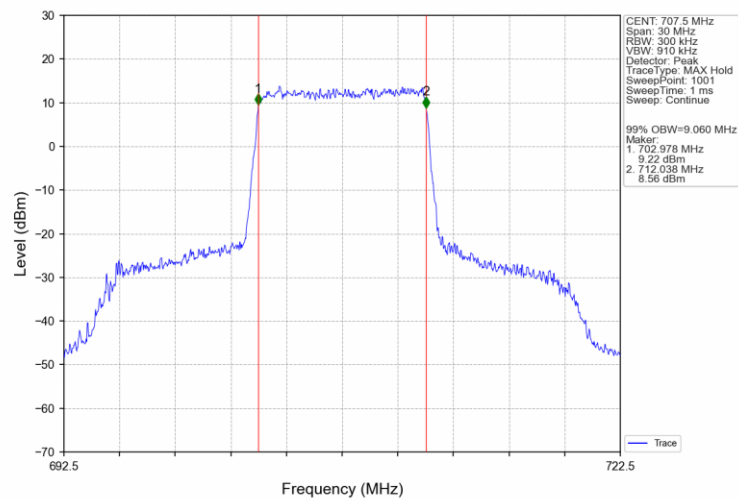
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



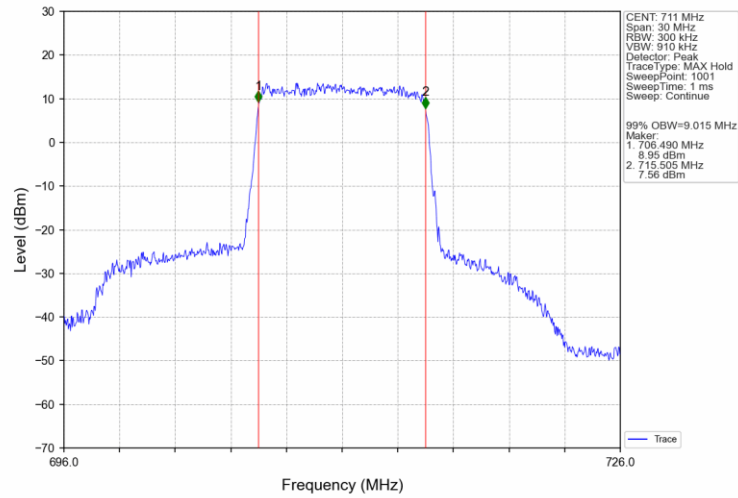
Band12 10MHz QPSK LCH 704MHz RB 50 0 NTNV



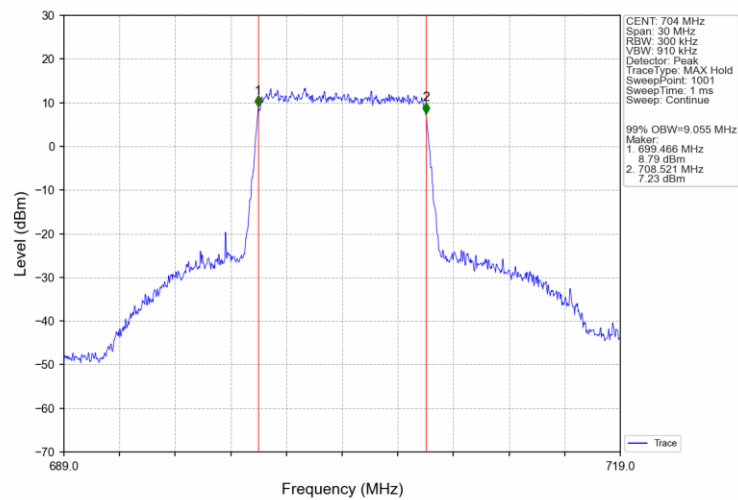
Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTNV



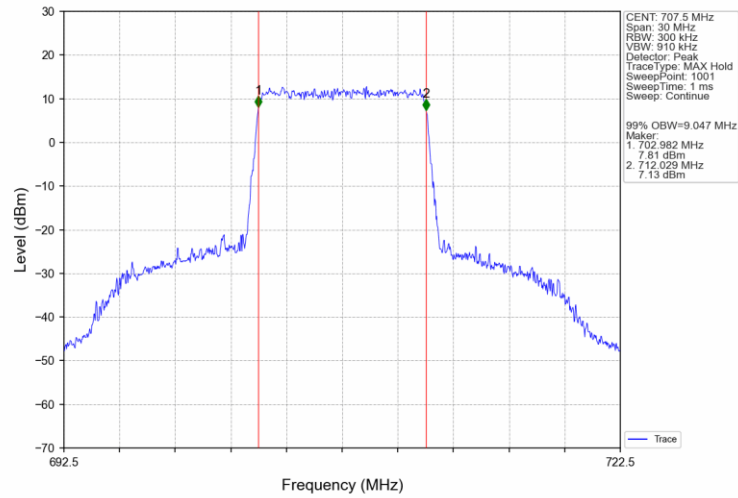
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



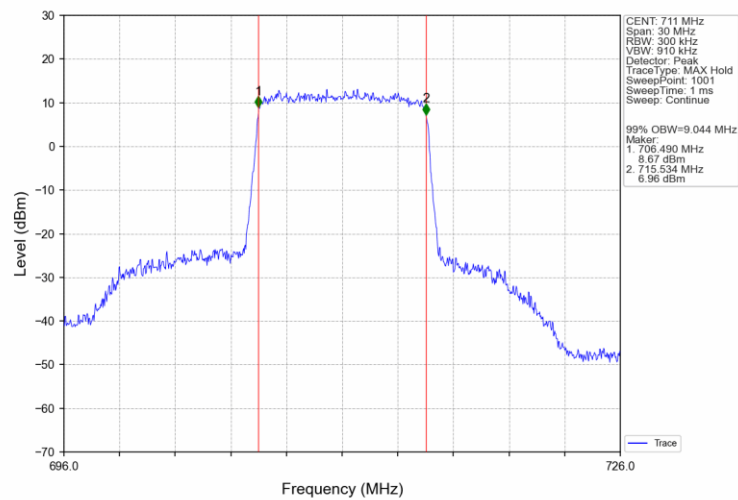
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Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV

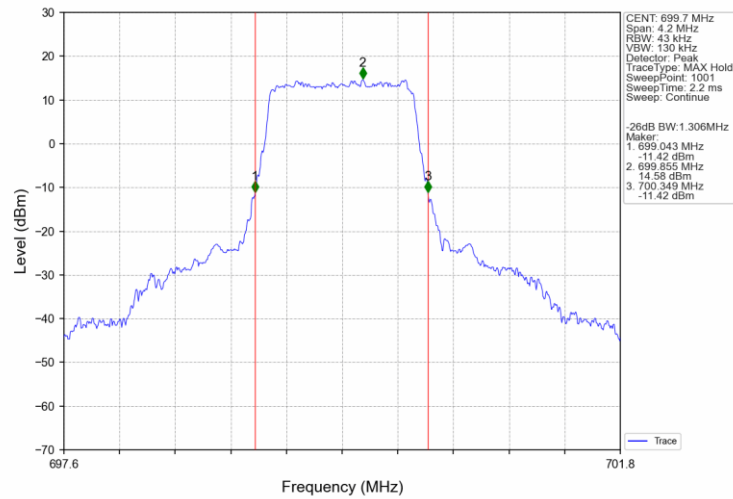


Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

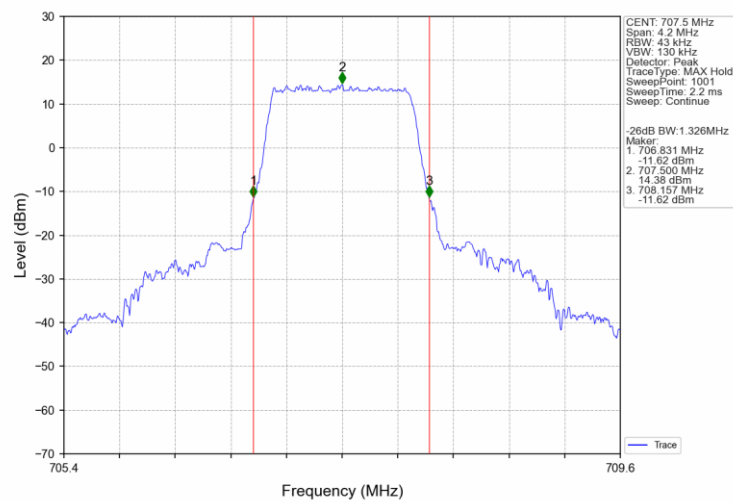


4.2.2 Band12_XDB

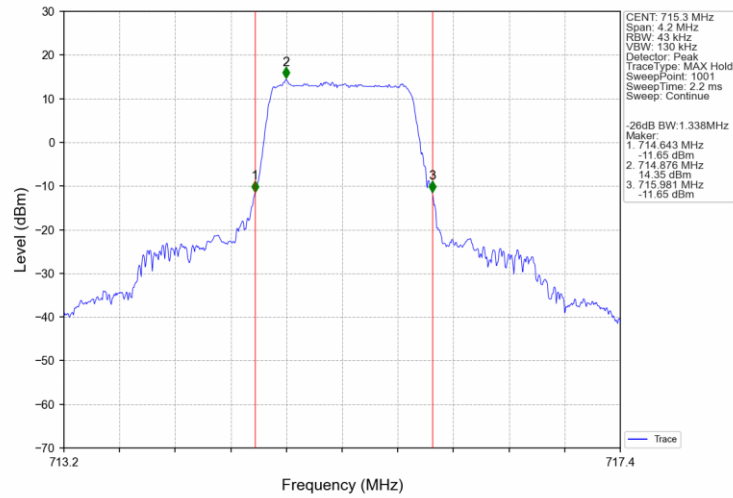
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



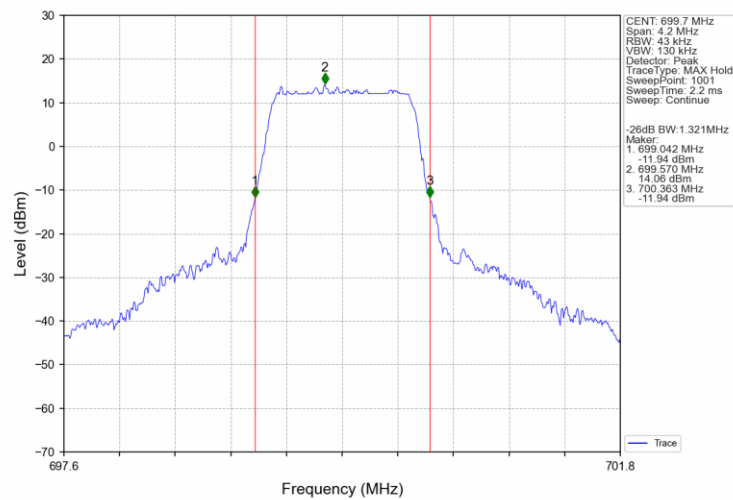
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



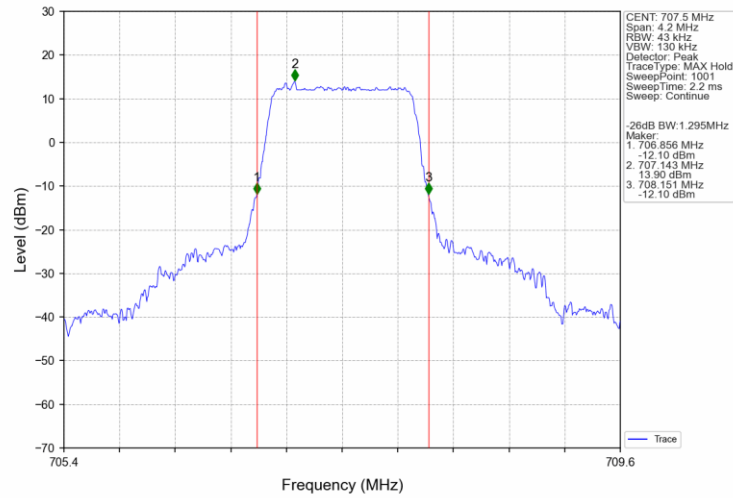
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTV



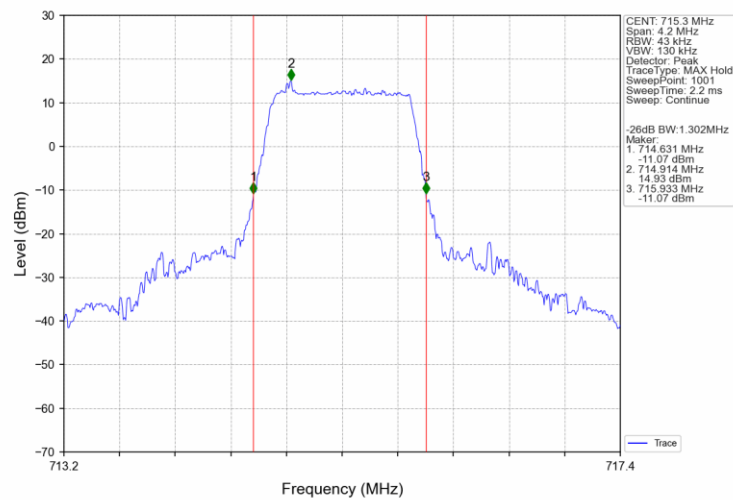
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTV



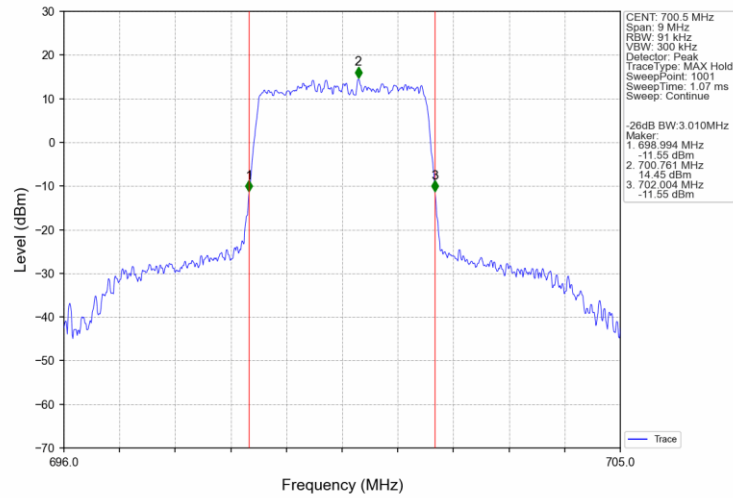
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTN



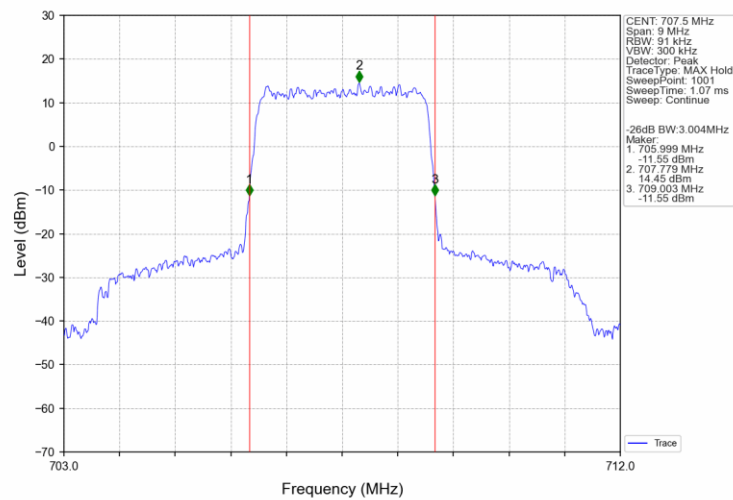
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTN



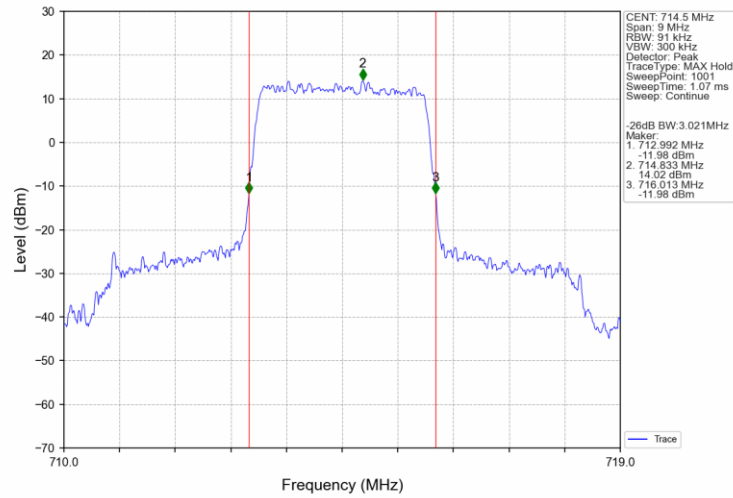
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



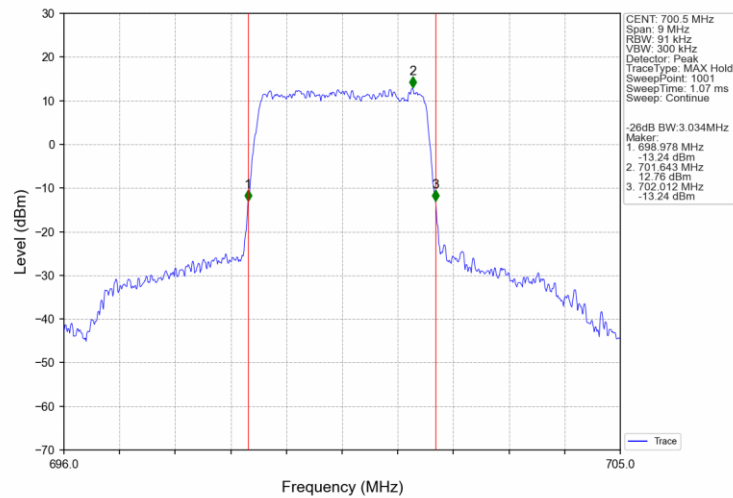
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



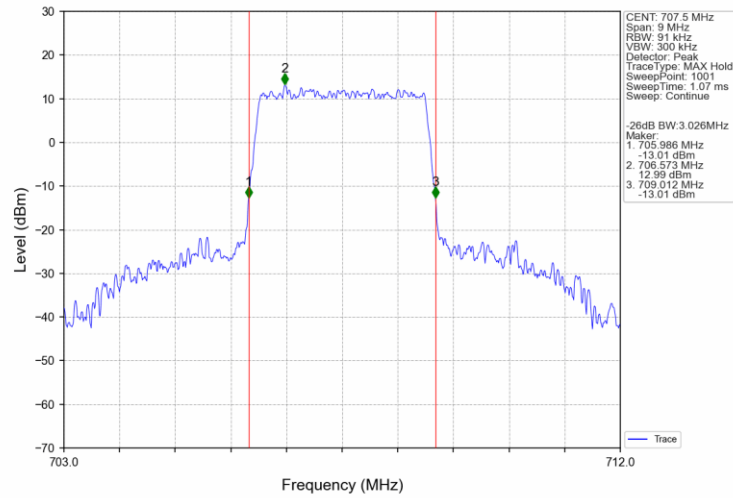
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



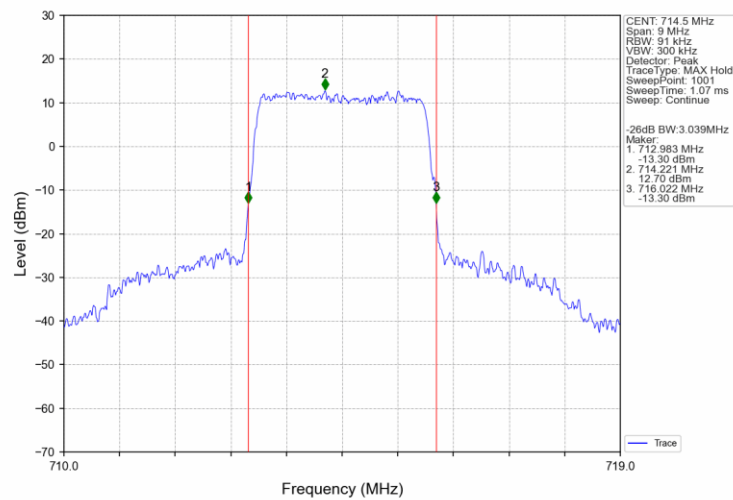
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



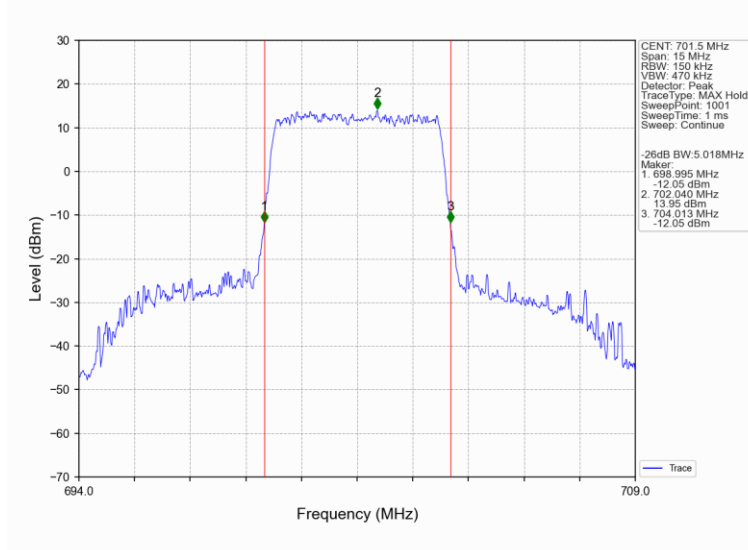
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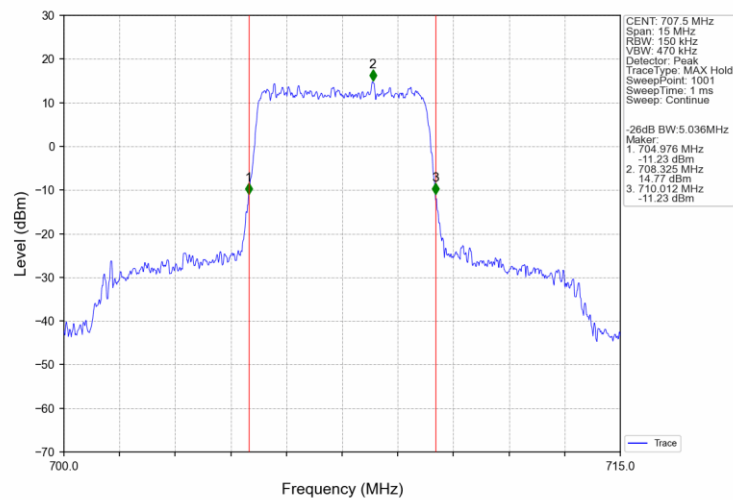
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



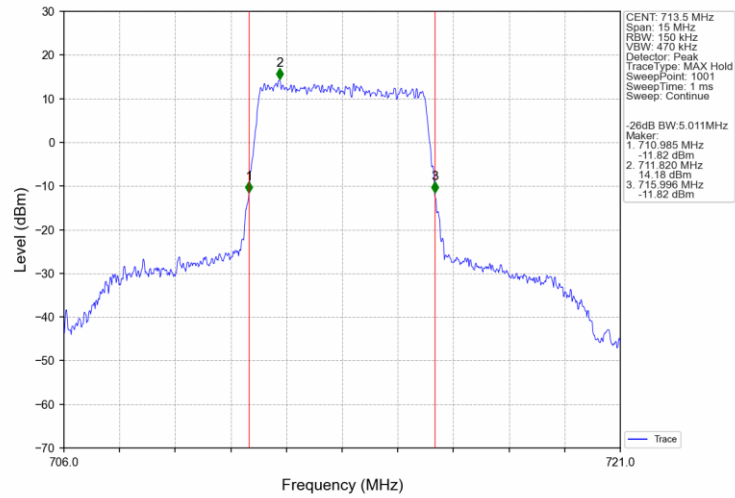
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



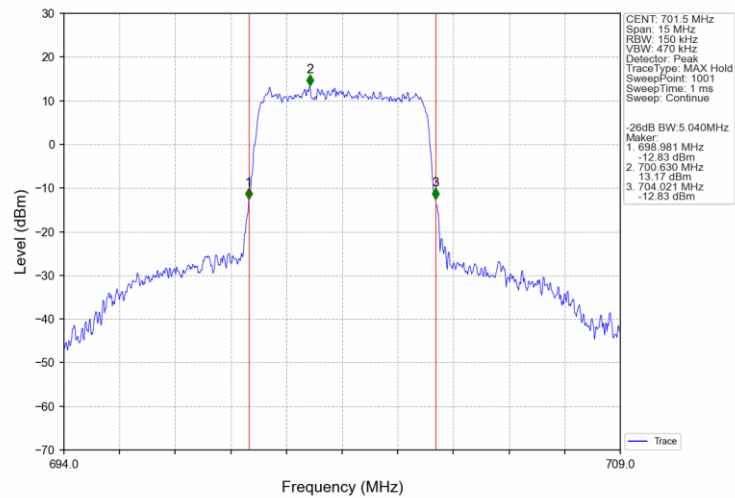
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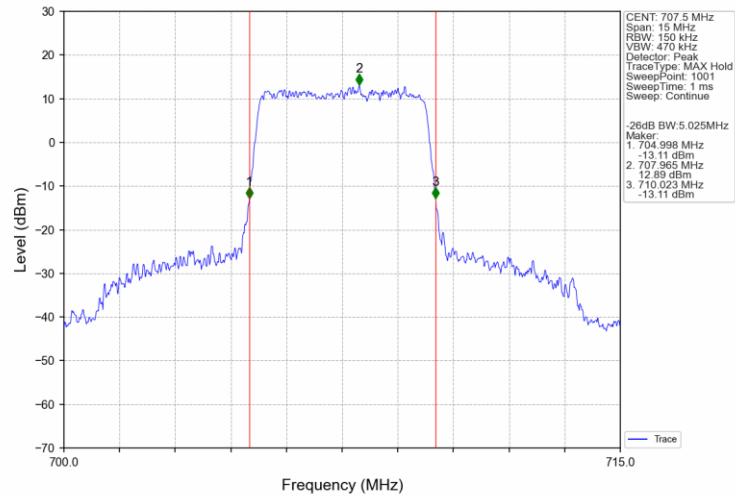
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



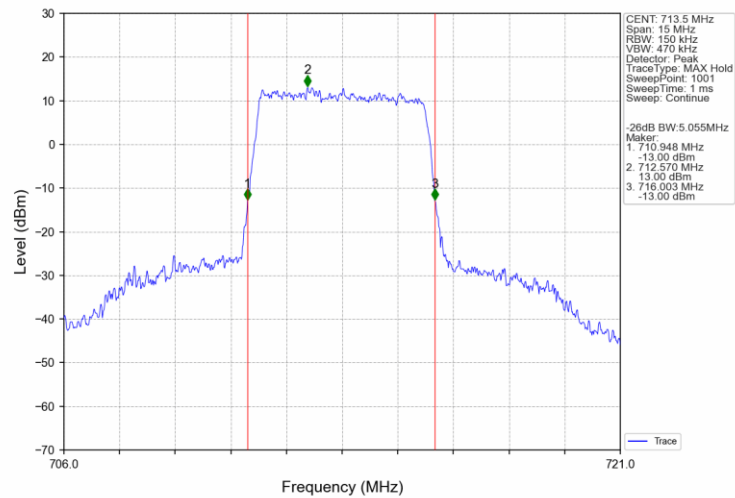
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



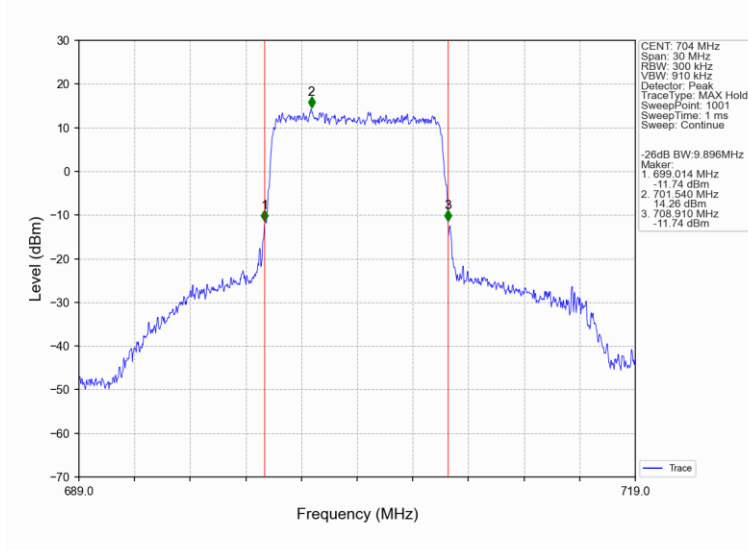
Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTNV



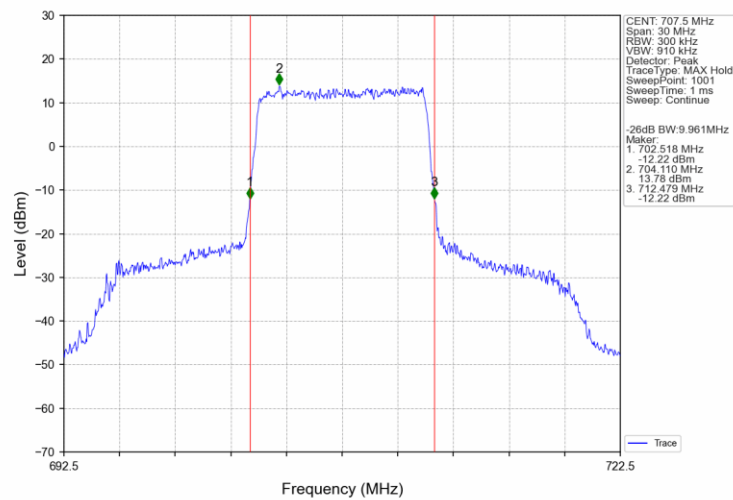
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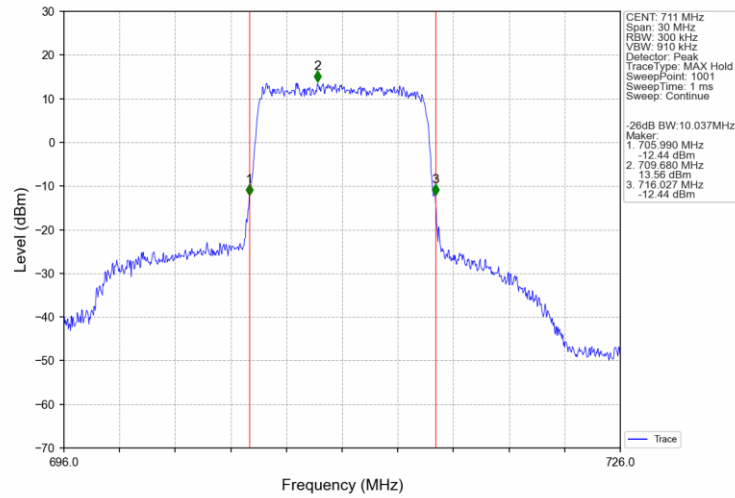
Band12 10MHz QPSK LCH 704MHz RB 50 0 NTV



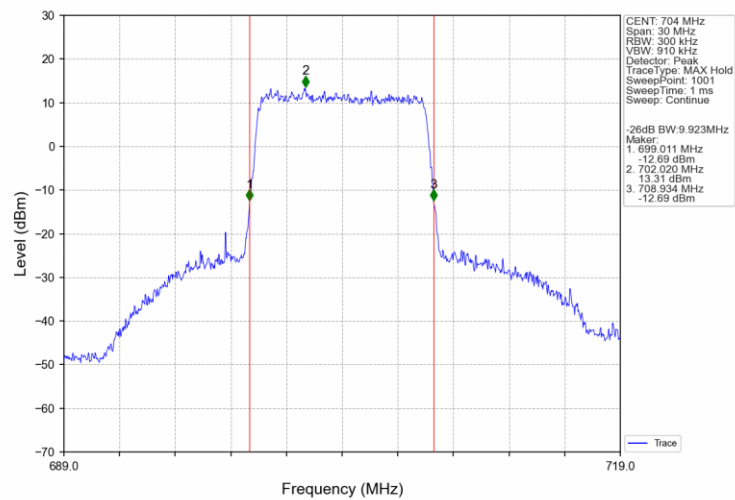
Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTV



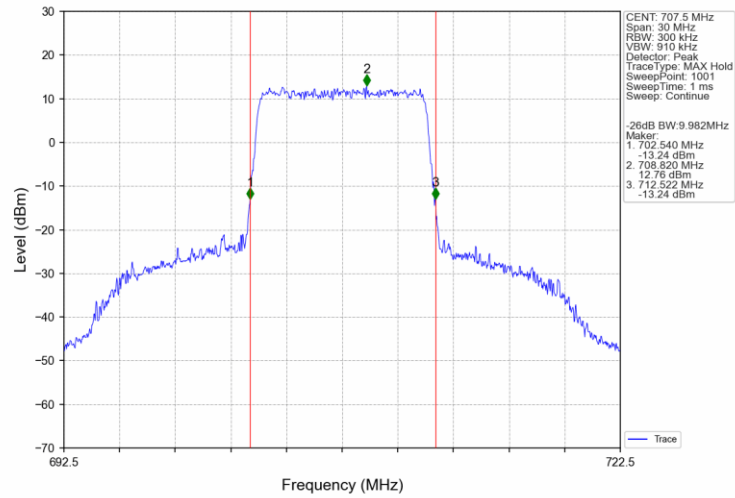
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



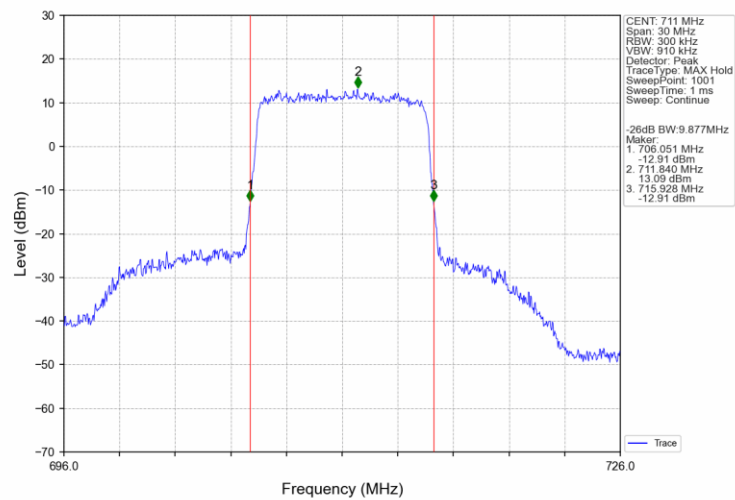
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	5.34	<=13	Pass
	707.5	6	0	5.15	<=13	Pass
	715.3	6	0	5.19	<=13	Pass
16QAM	699.7	6	0	6.06	<=13	Pass
	707.5	6	0	5.98	<=13	Pass
	715.3	6	0	5.93	<=13	Pass

5.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.39	<=13	Pass
	707.5	15	0	5.21	<=13	Pass
	714.5	15	0	5.27	<=13	Pass
16QAM	700.5	15	0	6.17	<=13	Pass
	707.5	15	0	6.00	<=13	Pass
	714.5	15	0	6.08	<=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	5.46	<=13	Pass
	707.5	25	0	5.49	<=13	Pass
	713.5	25	0	5.43	<=13	Pass
16QAM	701.5	25	0	6.13	<=13	Pass
	707.5	25	0	6.12	<=13	Pass
	713.5	25	0	6.17	<=13	Pass

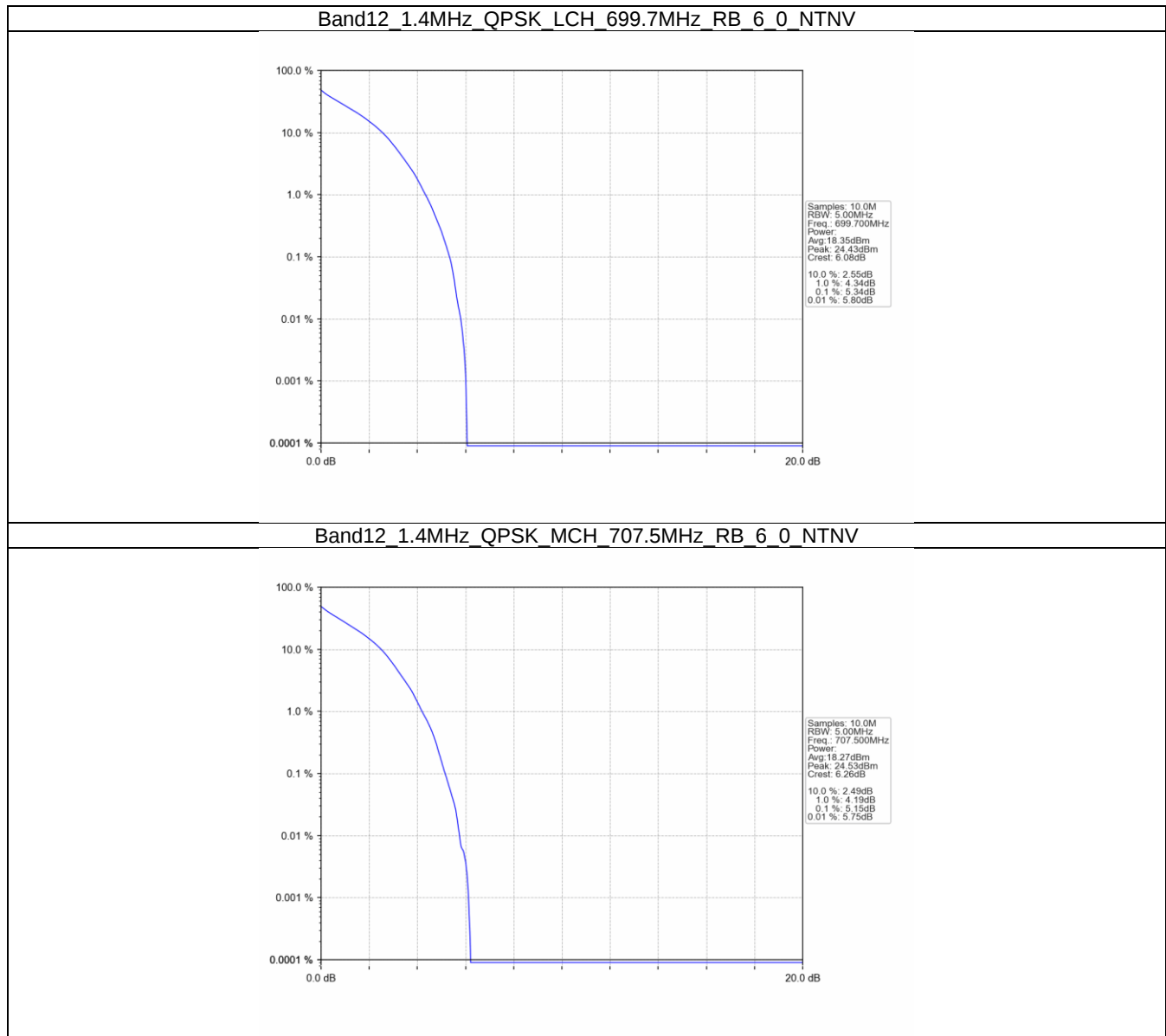
5.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.41	<=13	Pass
	707.5	50	0	5.37	<=13	Pass
	711	50	0	5.24	<=13	Pass
16QAM	704	50	0	6.12	<=13	Pass
	707.5	50	0	6.10	<=13	Pass
	711	50	0	6.03	<=13	Pass

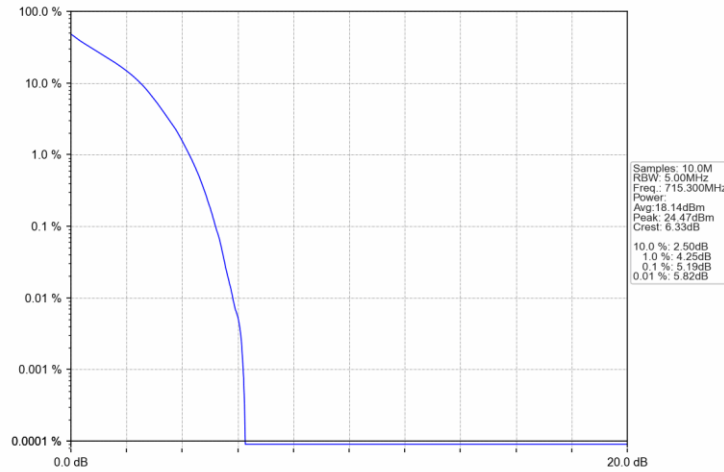


5.2 Test Graph

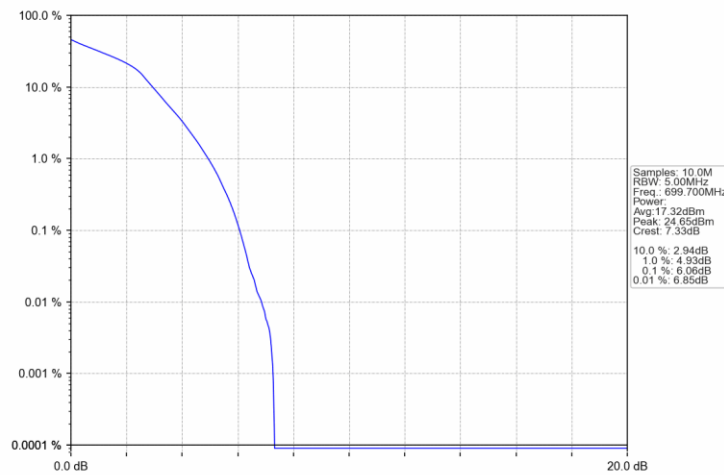
5.2.1 B12_1.4MHz



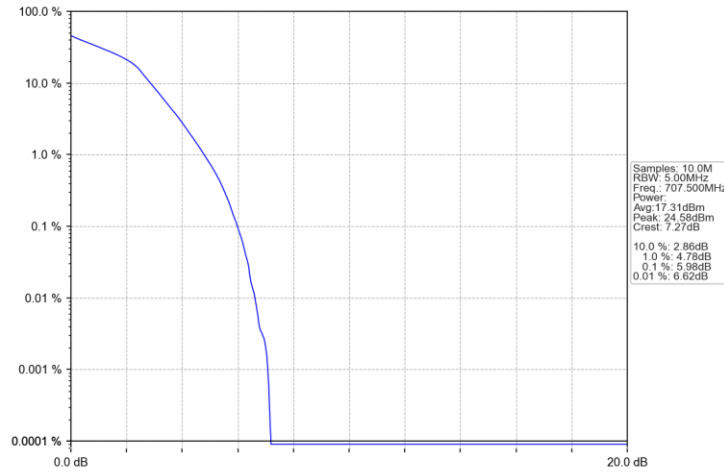
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTV



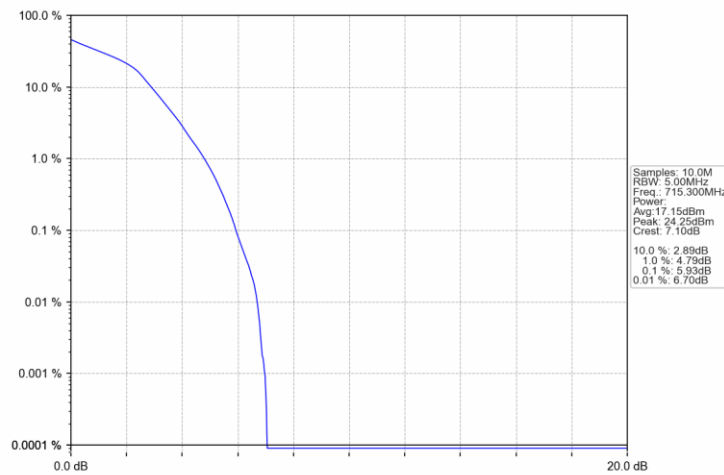
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTV



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

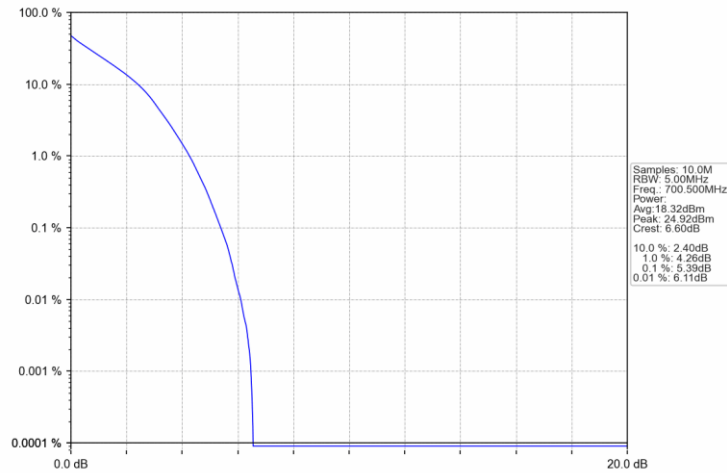


Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



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

